



United Nations  
Climate Change

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# FACE TO FACE WITH THE WARSAW INTERNATIONAL MECHANISM

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**Showcasing the expertise mobilized by the  
Executive Committee and its thematic expert groups**

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# Foreword

by the **Co-Chairs of the Executive Committee  
of the Warsaw International Mechanism**

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**LE-ANNE ROPER**



**MALCOLM RIDOUT**

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**Co-Chairs  
of the Executive  
Committee of the  
Warsaw International  
Mechanism**

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The Warsaw International Mechanism, established in 2013, has been serving as the main catalyser under the UNFCCC process for enhancing knowledge, coherence, action and support to avert, minimize and address loss and damage associated with climate change impacts in developing countries that are particularly vulnerable to the adverse effects of climate change. While the increasing frequency, magnitude, and new combinations of extreme weather events continue to be tragic reminders of the importance of the role of the Warsaw International Mechanism the complex issue of loss and damage is comprised of other elements, including the impacts of slow onset events. Due to this complexity, it has been crucial for the WIM Executive Committee to bring together a broad range of expertise and a wide array of stakeholders to implement the functions of the Warsaw International Mechanism.

The WIM Executive Committee has established five thematic expert groups for each of its workstreams: Expert Group on Slow Onset Events; Expert Group on Non-economic Losses; Technical Expert Group on Comprehensive Risk Management; Task Force on Displacement; Expert Group on Action and Support. All five thematic expert groups are now fully operational and well positioned to contribute their wealth of expertise and resources to advance progress on averting, minimizing and addressing loss and damage in a comprehensive and integrated manner.

These expert groups are crucial in supporting the implementation of the strategic workstreams of the WIM Executive Committee. In addition, the groups' technical expert members facilitate the integration of loss and damage perspectives into knowledge management and other activities within their communities. As co-chairs of the WIM Executive Committee, we are particularly pleased that all five thematic expert groups are now fully operational, with approved Plans of Action contributing to the successful implementation of the Warsaw International Mechanism and future mandates on loss and damage. COP 26/CMA 3 provide a timely moment to showcase the depth and variety of their expertise.

We are pleased to present this booklet, and we invite the readers to reflect on the catalytic potential of the expertise mobilized under the Warsaw International Mechanism to respond to the urgent challenge of averting, minimizing and addressing loss and damage associated with climate change impacts.

# Foreword

by the **Executive Secretary of the United Nations  
Framework Convention on Climate Change**

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**PATRICIA ESPINOSA**

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**Executive Secretary,  
UNFCCC**

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While much of the world's attention is focused on facing the challenges brought by the COVID-19 crisis, the recent series of weather extremes throughout the world and the human tragedies that these events have caused, are poignant reminders of the urgency for global action on the climate crisis. The recently published sixth assessment report by the Intergovernmental Panel on Climate Change signals that climate change will cause unprecedented extremes, with droughts, floods and heatwaves expected to increase in frequency and severity. Slow onset events, while less likely to monopolize the attention of the global news cycles, are an equal threat as they may require transformational approaches to safeguard lives and livelihoods around the globe.

Climate change is one of the most urgent challenges of our times. It is also a test that will require humanity's best efforts for decades to come. While we continue to strive towards more ambitious mitigation efforts, we must also continue to reaffirm our commitments to adaptation and to climate action beyond adaptation to address residual losses or damages that undermine our resilience.

The negative impacts of climate change will disproportionately affect the most vulnerable people, communities and countries. Loss and damage associated with climate change impacts are already occurring across all regions, all levels of society and economic sectors. Averting, minimizing and addressing loss and damage is a complex challenge that requires multi-disciplinary solutions. Thus, it is crucial for the WIM Executive Committee to be able to mobilize – and catalyse – resources and expertise from a broad mix of expert organizations and networks.

This booklet intends to inform practitioners and policy-makers about the wealth and breadth of expertise mobilized under the Warsaw International Mechanism, by showcasing the profiles of its protagonists that stand ready to assist in the implementation of approaches to avert, minimize and address loss and damage associated with climate change impacts. This impressive display of multi-disciplinary expertise is a testimonial that support relevant to loss and damage spans across the whole risk continuum, including social protection, recovery, restoration and rehabilitation measures, and transformational approaches. It is my sincere hope that we unite our efforts to increase ambition on all aspects of loss and damage, as ambitious action is more important than ever.

# Introduction

The Warsaw International Mechanism for Loss and Damage associated with Climate Change Impacts (Warsaw International Mechanism) was established at COP 19 in 2013 to address loss and damage associated with impacts of climate change, including extreme events and slow onset events, in developing countries that are particularly vulnerable to the adverse effects of climate change. The role of the Warsaw International Mechanism was reaffirmed by the Paris Agreement in 2015, highlighting its position as the main vehicle under the UNFCCC process to avert, minimize and address loss and damage associated with climate change impacts in a comprehensive, integrated and coherent manner.

The Warsaw International Mechanism promotes the implementation of approaches to address loss and damage associated with the adverse effects of climate change through the following functions:

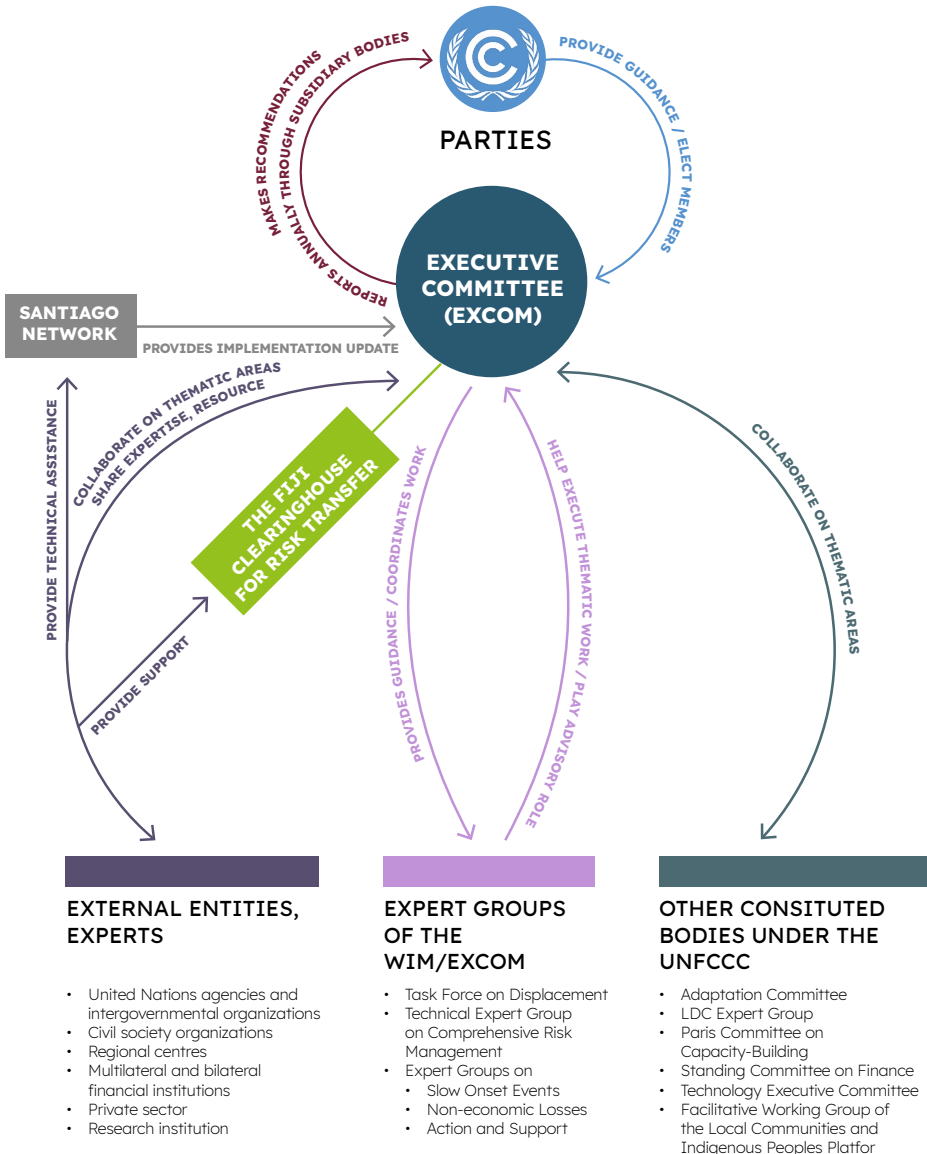
- 1. Enhancing knowledge and understanding of comprehensive risk management approaches;**
- 2. Strengthening dialogue, coordination, coherence and synergies among relevant stakeholders;**
- 3. Enhancing action and support, including, finance, technology and capacity-building.**

The implementation of the functions of the Loss and Damage Mechanism is guided by its Executive Committee (ExCom) under the overall guidance by Parties. The ExCom implements its activities through coordination and collaboration with various stakeholders and establishes expert groups that play a significant role in carrying out the activities of the ExCom workplan. The ExCom currently has 5 expert groups, one for each of the strategic workstreams of its current five-year rolling workplan.

The aim of this booklet is to provide a platform to introduce and showcase the expertise mobilized by the ExCom to a wide range of audiences, by collating the expert profiles of all members of the ExCom and its five thematic expert groups. By doing so, it aims to highlight the wealth of knowledge and expertise catalysed by the ExCom of the Warsaw International Mechanism to respond to the complex challenge of loss and damage.

# Executive Committee of the Warsaw International Mechanism for Loss and Damage

INSTITUTIONAL ARRANGEMENTS CONCERNING THE EXECUTIVE COMMITTEE OF THE WARSAW INTERNATIONAL MECHANISM FOR LOSS AND DAMAGE



- United Nations agencies and intergovernmental organizations
- Civil society organizations
- Regional centres
- Multilateral and bilateral financial institutions
- Private sector
- Research institution

- Task Force on Displacement
- Technical Expert Group on Comprehensive Risk Management
- Expert Groups on
  - Slow Onset Events
  - Non-economic Losses
  - Action and Support

- Adaptation Committee
- LDC Expert Group
- Paris Committee on Capacity-Building
- Standing Committee on Finance
- Technology Executive Committee
- Facilitative Working Group of the Local Communities and Indigenous Peoples Platform

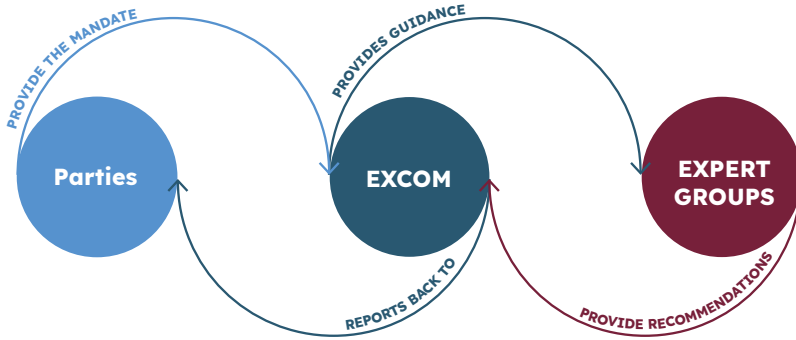
The ExCom comprises 20 members from Parties to the Convention, with equal representation of Annex I and Non-Annex I Parties. For the 10 members from non-Annex I Parties, the rules of procedure detail requirements of geographical provenance aimed at ensuring a balanced representation of Parties.

The initial two-year workplan of the ExCom was endorsed at COP 20 in December 2014. The current five-year rolling workplan of the ExCom was endorsed at COP 23 in November 2017.

COP 20 provided the ExCom with the mandate to establish advisory expert groups, subcommittees, panels, thematic advisory groups or task-focused ad hoc working groups to help execute its work in guiding implementation of the Warsaw International Mechanism, as appropriate. The ExCom currently has 5 thematic expert groups, namely:

- **Expert Group on Slow Onset Events;**
- **Expert Group on Non-economic Losses;**
- **Technical Expert Group on Comprehensive Risk Management;**
- **Task Force on Displacement;**
- **Expert Group on Action and Support.**

All five thematic expert groups of the ExCom are fully operational, with adopted Plans of Action that guide them in providing recommendations to the ExCom relevant to their specific thematic areas. By bringing together a wide range of experts with diverse and complementary expertise, the expert groups provide thought leadership to the ExCom. In doing so they allow the ExCom to assist developing countries by facilitating access to knowledge and resources available on approaches to avert, minimize and address loss and damage. The expert groups are also expected to support ExCom in addressing new mandates arising from guidance provided by Parties in their respective thematic areas.



### EXPERT GROUPS OF EXCOM







**EXECUTIVE  
COMMITTEE OF  
THE WARSAW  
INTERNATIONAL  
MECHANISM FOR  
LOSS AND DAMAGE**



# Antonio Cañas Calderón

## Current Affiliation

Member of WIM ExCom

## Areas of Expertise

Climate policies, sustainable development, adaptation to climate change

## Education

- Bachelor's in Mechanical Engineering and in Philosophy

## Professional Experience

- 2016 / 2020 / National Climate Change Policy Developer and Lead National Climate Change Negotiator / NFP to UNFCCC, NFP to IPCC / Ministry of Environment, El Salvador
- 2010 / 2015 / Minister's Advisor for Climate Change / NFP to UNFCCC, NFP to IPCC / Ministry of Environment and Natural Resources, El Salvador



# Malcolm Ridout



Malcolm Ridout is the lead for Adaptation and Loss and Damage negotiations for the incoming UK presidency of COP26. He has served in various roles with the Department for International Development of the UK since 2004, most recently as senior adviser. At the Department for International Development Malcolm has been engaged on various topics,

including climate, food security, resilience and livelihoods.

Malcolm has also been seconded to the UN High Level Task Force on food Security as Senior Policy Adviser. Prior to joining the Department for International Development, he worked with NGOs and the UN, leading development and humanitarian relief programmes in both Africa and Asia.

## Current Affiliation

UK COP26 Presidency

## Education

- M.Sc. / BioAeronautics / Cranfield University
- B.Sc. / Zoology / Durham University

## Professional Experience

- 2019 / Present / Adaptation and Loss and Damage Lead COP 26 Unit / Cabinet Office, UK
- 2015 / Senior Adviser / Department for International Development, UK

# Muhammad Imran Khan

# Penehuro Fatu Lefale



Lead Author (LA), IPCC Fourth Assessment Report (AR4), Small Islands chapter.

## Current Affiliation

Government of Tokelau/New Zealand

## Areas of Expertise

Climate Science, Climate Policy, Indigenous ecological knowledge, International Environmental Legal Studies and Policy

## Education

- PGL/MLS / Legal Studies / Auckland University
- B.Sc. / Physics and Mathematics / University of the South Pacific

## Professional Experience

- 2016 / Present / Senior Climate Advisor / Government of Tokelau
- 2015 / Present / Director/Climate Analyst / LeA International
- 2014 / 2015 / International Climate and Policy Analyst / Bodeker Scientific
- 2012 / 2014 / Pacific Manager / National Weather Service, MetService, Wellington, New Zealand

## Selected Publications

- Healey, P., R.J. Scholes, P.Lefale, P. Yanda., (2021): *Governing Net Zero Carbon Removals to avoid entrenching inequalities*. doi: 10.3389/fclim.2021.672357 [Frontiers | Governing Net Zero Carbon Removals to Avoid Entrenching Inequities | Climate \(frontiersin.org\)](#)
- Horton, J, P.F., Lefale, D. Keith (2021): *Parametric Insurance for Solar Geoengineering: Insights from the Pacific Catastrophe Risk Assessment and Financing Initiative*. Global Policy Journal, Durban University, First published: 10 October 2020.
- Tamasailau Suaali'i-Sauni and Penehuro Fatu Lefale (2021): *O le Ua e afua mai Manu'a: A Samoan Indigenous reading of the impacts of climate change*; In: Environment and Belief Systems – Key Concepts in Indigenous Studies, (Editors: G.N. Devy, Geoffrey V. Davis), Routledge Taylor & Francis Group, London & New York. ISBN: 987-0-367-67444-1, ISBN: 987-0-367-81427-4.
- Lefale, Penehuro Fatu and Cheryl Lea Anderson., (2019): *Climate Engineering and Small Islands: Panacea or Catastrophe?* In: Geoengineering our Climate? Ethics, Politics, and Governance, Jason. J. Blackstock and Sea Low, Eds., Routledge, 2 Park Square, Milton Park, Oxon, OX14 4RN and Routledge, 711 Third Avenue, New York, NY 10017, 159-163.

- Mimura, N., L. Nurse, R.F. Mc Lean, J. Agard, L. Briguglio, P. Lefale, R. Payet and G. Sem, 2007: Small Islands, Climate Change 2007: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change, M. L. Parry, O.F. Canziani, J.P. Palutikof, P.J. van der Linden and C.E. Hanson, Eds., Cambridge University Press, Cambridge, UK, 687-716.
- Lefale, P.F., H.J. Diamond, and C.L. Anderson., (2018): *Impacts of Climate 22-z Change on Extreme Events relevant to Pacific Island Commonwealth Member States (Pacific CMSs)*, Confidential report for the Commonwealth Secretariat, London, UK, 24 pages. LeA International Consultants, Ltd, Wellington, New Zealand.
- Lefale, P.F., P. Faiva and C. Anderson., (2017): *Living with Change (LivC): An Integrated National Strategy for Enhancing the Resilience of Tokelau to climate change and related Hazards, 2017-2030*. Wellington, New Zealand: Government of Tokelau and LeA International Consultants, Ltd.
- Lefale, P.F., P. Faiva and C. Anderson., (2017) *Living with Change (LivC): An Integrated National Strategy for Enhancing the Resilience of Tokelau to climate change and related Hazards, 2017-2030 – IMPLEMENTATION PLAN, 2017-2022*. Wellington, New Zealand: Government of Tokelau and LeA International Consultants, Ltd.
- Sugiyama, M., S. Asayama. A. Ishii; T. Kosugi, J. C. Moore, J. Lin, P.F. Lefale, W. Burns, M. Fujiwara, A. Ghosh, J. Horton, A. Kurosawa; A. Parker, M. Thompson, P-H. Wong, L. Xia (2017) The Asia-Pacific's role in the emerging climate engineering debate *Climatic Change* doi: 10.1007/s10584-017-1994-0 The Asia-Pacific's role in the emerging solar geoengineering debate | SpringerLink
- Lefale, P.F., 2009: Ua'afa le Aso. Stormy Weather today: traditional ecological knowledge of weather and climate; The Samoa Experience. *Climatic Change*, Vol. 100, Number 2, 317-335, DOI:10.1007/s10584-009.97



## Adao Soares Barbosa



**Adao Soares Barbosa** is a lecturer at the National University of Timor-Leste at the Department of Agronomy. He is also a member for the Least Developed countries Expert Group (LEG) representing Asian LDCs.

### Current Affiliation

The National University of Timor Lorosa'e  
Ministry of Foreign Affairs and Cooperation, Government of Timor-Leste

### Education

- M.Sc. / Environment / Victoria University, Australia
- Bachelor's/ Agronomy / Universitas Timor-Timur, Indonesia

### Professional Experience

- Special Envoy with the category of Ambassador at Large for Climate Affairs / Timor-Leste
- Lecturer / National University of Timor Lorosa'e
- Lecturer / Universitas Timor-Timur
- Director for Center for Climate Change and Biodiversity / UNTL
- UNFCCC National Focal Point and climate change lead negotiator for Timor-Leste



## Kajsa Fernström Nätby



**Kajsa** is co-chair for the Expert Group on Non-economic Losses and a WIM ExCom member. She works at the Swedish Ministry of Environment. Among other things, she works on mainstreaming youth, gender, and indigenous perspectives in climate action. Kajsa is a part of the EU team and the Swedish delegation to the UNFCCC negotiations.

### Current Affiliation

Ministry of the Environment, Sweden

### Education

- M.Sc. / Environmental Policy and Regulation / LSE
- Bachelor's / Economics and Politics / Lund University

### Professional Experience

- Head of Section / Climate Division, Ministry of the environment, Sweden.
- Sustainability Advisor / the Group Sustainability Office, Svenska Handelsbanken
- Youth delegate / Swedish delegation to COP23
- President / Swedish Association of Foreign Affairs



# Jerome Evangelio Ilagan



Jerome represents the Philippines in climate negotiations, and serves as the Focal Point on matters relating to loss and damage, that include comprehensive risk assessment, technical development and transfer, capacity building, and finance. He is one of the champions of the Expert Group on Non-Economic Losses and of the Expert Group on Slow Onset Events (ad hoc).

Jerome leads the Technical Working Group on the Philippine Nationally Determined Contribution in the context of innovation, inclusion, and just transition. He also heads the Secretariat of the National Panel of Technical Experts of the Climate Change Commission, and of the Cabinet Cluster on Climate Change Adaptation and Mitigation and Disaster Risk Reduction.

Jerome steers the implementation of the National Climate Risk Management Framework through the whole-of-government and whole-of-society approaches and leads the technical process on the development of the Philippine National Adaptation Plan.

## Current Affiliation

Climate Change Commission, Philippines

## Areas of Expertise

Climate policy and strategy, institutional support, financial resource mobilization, planning and programming, training and development

## Education

- Doctorate / Public Administration (in progress; dissertation writing) / University of the Philippines
- Master in Public Management / Ateneo de Manila University
- Bachelor of Laws / University of the East, Manila
- Bachelor of Arts in Philosophy and Letters / San Beda College, Manila

## Professional Experience

- 2018 / Present / Chief / Planning Officer / Policy Research and Development Division, Climate Change Office, Climate Change Commission, Republic of the Philippines
- 2016 / 2017 / Chief Administrative Officer / National Privacy Commission, Republic of the Philippines
- 2011 / 2016 / Director IV / Office of the President of the Philippines
- 1998 / 2016 / Senior Budget and Management Specialist / Department of Budget and Management, Republic of the Philippines

## Selected Publications

- Ilagan, J. 2020. The National Climate Change Action Plan and global public goods: Leveraging national opportunities for sustainable development. In Navigating the new globalization: Local actions for global challenges. Proceedings of the Fifth Annual Public Policy Conference 2019. Quezon City: Philippine Institute for Development Studies. Forthcoming.



# Valeriy Sedyakin



Valeriy Sedyakin currently serves as Chief Economist at the Institute of Global Climate and Ecology of the Ministry of Natural Resources and Environment of the Russian Federation. He is part of the Russian Federation delegation to UNFCCC negotiations.

## Current Affiliation

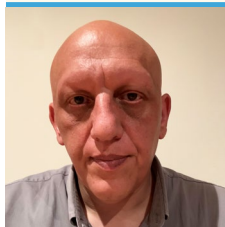
Institute of Global Climate and Ecology, Ministry of Natural Resources and Environment of the Russian Federation

## Education

- Candidate of Geographical Science, Section – Ecology
- Master’s in financial management

## Professional Experience

- Chief Economist / Institute of Global Climate and Ecology of the Ministry of Natural Resources and Environment of the Russian Federation



# Alfonso Pino Maeso



Given my professional background, I have been involved in dealing with the effects of climate change in agriculture and food security participating in international negotiations related to climate change and SDGs.



I hope that my professional background will give a new perspective to tackle loss and damage.



## Current Affiliation

Ministry of Ecological Transition - Spain

## Areas of Expertise

Loss and damage in general

## Education

- Master’s / Public Administration / The George Washington University, United States
- Master’s / Agricultural Engineer / Universidad Politécnica de Madrid

## Professional Experience

- 2019 / Present / Spanish IPCC Focal Point / Ministry for Ecological Transition
- 2015 / 2019 / Trade Attaché / European Union Delegation to Malaysia
- 2014 / 2015 / Technical Advisor on Climate Change / Ministry for Ecological Transition
- 2010 / 2014 / Deputy Director General for International Relations / Ministry of Agriculture and Environment



# Le-Anne Roper

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## Current Affiliation

Senior Technical Officer (Adaptation), Climate Change Division, Ministry of Housing, Urban Renewal, Environment and Climate Change (MHURECC)

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## Areas of Expertise

Policy support, project development and monitoring, stakeholder facilitation and engagement

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## Education

- M.Sc. (Hons) / Natural Resource and Environmental Management
  - B.Sc. (Hons) / Pure and Applied Chemistry
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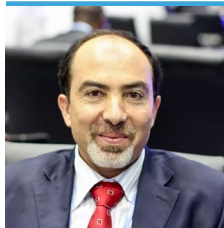
## Professional Experience

- 2018 / Present / Senior Technical Officer / Climate Change Division, Ministry of Housing, Urban Renewal, Environment and Climate Change (MHURECC)
  - 2009 / 2018 / Sustainable Development Officer / Planning Institute of Jamaica
- 

## Selected Publications

- Roper, L. (2021). Building Rock-Solid Resilience to Natural Hazards: The Church Edition.
  - James King, E., Lawes, M., Hartley, A., Roper, L., Abrams, O., Forde, P. (2020). Caribbean Bible Lessons: Bible Leaders Teacher Guide. Phase 4, Vol. 16, No. 2. Caribbean Christian Publications Ltd.
  - James King, E., Lawes, M., Hartley, A., Roper, L., Abrams, O., Forde, P. (2020). Caribbean Bible Lessons: Bible Leaders Learner Guide. Phase 4, Vol. 16, No. 2. Caribbean Christian Publications Ltd.
  - Roper, L. (2016). Sea of Plastics – Under the “Microscope.” Beginnings, 7(11)
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# Nedal Katbeh-Bader

<https://www.facebook.com/nedalkatbeh>



Since I joined ExCom, I engaged actively in its activities during sessions and between sessions. I joined the TEG-CRM as a member representing developing country Parties and was active in meetings and in the formulation and updating of its Plan of Action, I also participated in the preparation and convening of a joint workshop with UNDRR and WMO: Stakeholder engagement workshop on strengthening the capacities for observation and risk assessment in the context of loss and damage associated with climate change. I was a liaison member with TEC and was actively engaged in the preparation of the Policy Brief on Technologies for Averting, Minimizing and Addressing Loss and Damage in Coastal Zones.



Referring to latest available science: Intergovernmental Panel for Climate Change's (IPCC): Sixth Assessment Report (AR6) Working Group I (WG I) and World Meteorological Organization (WMO): Atlas of Mortality and Economic Losses from Weather, Climate and Water Extremes (1970-2019): Climate change is an existential threat to the human being. The socio-economic and environmental cost of loss and damage will be beyond the capacity of any economy or community to afford. Unless the world governments worked together and hand in hand on an emergency basis to respond to this unprecedented challenge NOW, it will be too late and this will be a catastrophe for some regions of the world which may become uninhabitable by human being by the end of this century.



## Current Affiliation

Environment Quality Authority, State of Palestine

## Areas of Expertise

National policies and planning, NFP/UNFCCC negotiation, NFP/L&D, NFP/IPCC, NFP/ ACE

## Education

- M.Sc. / Sustainable Natural Resources Management / Hebron, University, Palestine
- B.Sc. / Agriculture, Soil and Irrigation / Jordan University, Jordan

## Professional Experience

- 2010 / Present / Minister's Advisor for Climate Change / Climate Change / EQA, NFP to UNFCCC, NFP to IPCC
- 2010 / Present / Secretary / National Climate Change Committee
- 2010 / Present / National Focal Point: UNFCCC, IPCC
- 2018 / Present / Member in EXCOM

## Selected Publications

- Evett, S., Mazahrih, N., Tolk, J., Howell, T. and Bader, N.K. (n.d.). *Spatial Variability of Near-Surface and Profile Water Content: Sensors Impact the Result ABSTRACT Spatial Variability of Soil Water Content Has Been shown. - Ppt Download.* [online]. Available at: [Accessed 9 Sep. 2021].
- Mazahrih, N.Th., Katbeh-Bader, N., Evett, S.R., Ayars, J.E. and Trout, T.J. (2008). Field Calibration Accuracy and Utility of Four Down-Hole Water Content Sensors. *Vadose Zone Journal*, 7(3), pp.992-1000.
- UNFCCC (2020). *Technologies for Averting, Minimizing and Addressing Loss and Damage in Coastal Zones.* [online].



# Viktoriia Shtets

 <https://www.linkedin.com/in/viktoriia-shtets-51559229/>



Viktoriia Shtets has 14 years of work experience. She worked in the Government of Ukraine on climate change issues and was an expert in such international organizations as German-Ukrainian Agricultural Policy Dialogue (APD), World Bank, USAID. Seven out of nine years in the Government, Viktoriia worked as a representative of the Ukrainian delegation in the UNFCCC Conferences, preparing the country's submissions, including the position of Ukraine, and providing her expert view on adaptation issues, technology transfer and capacity building.

## Current Affiliation

Member of WIM ExCom, Reanimation package of reforms (RPR) project manager

## Areas of Expertise

Climate policies, sustainable development, adaptation to climate change, particularly in agriculture, land issues, technology transfer, capacity building

## Education

- PhD / Institute of Natural Resources Economy and Sustainable Development of Ukraine, Kyiv, Ukraine
- Master's / Applied mathematics and social information science / National Taras Shevchenko University of Kyiv, Kyiv, Ukraine

## Professional Experience

- 2019 / 2020 / Climate change expert / German-Ukrainian Agricultural Policy Dialogue
- 2017 / 2019 / Policy Dialog Coordinator / USAID Agriculture and Rural Development Support Project, World bank Program "Supporting Transparent Land Governance in Ukraine"
- 2015 / 2017 / Senior expert of Climate Strategy Division of Climate Policy Department / Ministry of Ecology and Natural Resources of Ukraine
- 2008 / 2015 / Senior climate change expert / State Environmental Investment Agency of Ukraine

## Selected Publications

- Shtets, V. (2011a). Risks from Climate Change and Understanding of Adaptation Measures in Ukraine. *Environmental Economics and Climate Change*.
- Shtets, V. (2011b). Water consumption problems in Ukraine. Materials to International scientific conference "Water resources, hydrology and ecology safety."
- Shtets, V. (2013a). Ecological and economic aspects of the transition to the "green" economy in climate change conditions. *Bulletin of Economics Faculty of National Taras Shevchenko University of Kyiv*.
- Shtets, V. (2013b). Specifics of EU regulatory policy in the field of civil aviation and greenhouse gas emissions trading. *Collection of the Institute of Market Problems and Economic-Ecological Research*.



# Cornelia Jäger

## Current Affiliation

Ministry for Climate Action, Environment, Energy, Mobility, Innovation and Technology - Austria

## Areas of Expertise

Climate policy, adaptation to climate change, loss and damage associated with the adverse effects of climate change

## Education

- Master's / Law / Karl-Franzens-University, Graz, Austria

## Professional Experience

- 2017 / Excom Member
- 2010 / Adaptation and Loss and Damage negotiator / European Union



# Pepetua Election Latasi



Pepetua Election Latasi serves as the Director for Climate Change and Disaster Coordinator under the Office of the Prime Minister of Tuvalu. Her position involves working with the climate change policy of Tuvalu and serving as the country's representative in climate change negotiations abroad.

She began her career in Tuvalu's Department of Environment, where she worked for ten years before becoming Director of Department of Climate Change and Disaster. She has chaired the UNFCCC Least Developed Countries Expert Group and co-chaired the Executive Committee on the Warsaw International Mechanism for Loss and Damage. At the 2015 United Nations Climate Change Conference, she served as the Chief Negotiator for Tuvalu.

## Current Affiliation

Government of Tuvalu

## Education

- Bachelor's in Climate Change Policy and Environment Management

## Professional Experience

- Director for Climate Change and Disaster Coordinator / Office of the Prime Minister of Tuvalu



# Russell Miles



Russell Miles is Director of the Climate Adaptation and Resilience Section, Sustainability and Climate Change Division, Australian Department of Foreign Affairs and Trade. For six years he has led the team responsible for UNFCCC negotiations on adaptation, loss and damage, climate finance, capacity building, gender and human rights issues. He is Australia's representative on the UNFCCC Warsaw International Mechanism for Loss and Damage, and co-chair of the UNFCCC Task Force on Displacement. He has also led on integrating climate action into the Australian Aid Program, launching the new DFAT *Climate Change Action Strategy* (2020-25) and guiding the Department's work to implement Australia's climate finance commitments.

Previously he has worked for 16 years in the Australian Government's Aid Program (AusAID) - as Director of NGO and Human Rights Policy and Engagement Section; and as a Policy and Program Manager in the Country Strategies section; the Indonesia Stability and Human Security Unit; the Vietnam Program; Governance Policy Team and Humanitarian Response Department. He was posted to Hanoi for three years as head of the governance team. Russell has also worked for four years in Oxfam America's Humanitarian Response Department with a focus on disaster response and risk reduction in Africa and South Asia. He has significant work experience in Australia, the USA, Singapore, India, Sri Lanka, Indonesia, Vietnam, Cambodia, Laos, Ethiopia, Sudan and the UK.

## Current Affiliation

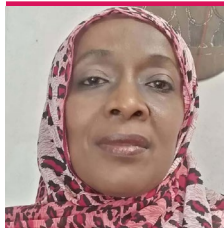
Department of Foreign Affairs and Trade (DFAT), Australia

## Education

- PhD (in progress) / Climate change / Australian National University
- Postgraduate Certificate in Antarctic Studies, Gateway Antarctica/University of Canterbury, New Zealand - including field work in Antarctica
- Master's / Economics (International, Development and Environment)
- Post Graduate Diploma / International Business / Relations
- Bachelor's / Business Management

## Professional Experience

- Director of the Climate Adaptation and Resilience Section / Department of Foreign Affairs and Trade (DFAT), Australia



# Sumaya Ahmed Zakieldeem



Sumaya Ahmed Zakieldeem is a climate change specialist and engages in diverse themes of climate change including vulnerability and impacts, GHGs inventory, loss and damage and climate finance. She has worked as a national consultant and led the V&A for NAPA, NAP, NCs. She is currently engaged as National Technical Advisor for NAP Readiness in Sudan. She was a lead author for working group 2 for IPCC AR5 and is currently engaged in ongoing work on IPCC AR6, as well as in the IPCC land report. Sumaya contributes to the work with Non-governmental Organizations and was engaged in the implementation of projects such as Community Based Adaptation in Africa and CLACC.

## Current Affiliation

Institute of Environmental Studies, Khartoum University, Sudan

## Education

- PhD / Climate change/eco-physiology of plants / Trinity College Dublin, Ireland
- Higher Diploma in Statistics / Trinity College Dublin, Ireland
- Bachelor of Science / Agricultural Sciences and Natural Resources / University of Gezira, Sudan

## Professional Experience




- 2007 / Present / Lead coordinator for LDC Group and advisor to the Chair of the LDCs on adaptation and loss and
- Member of Excom
- 2012 / 2016 / Member of the adaptation Committee representing the LDC Group
- 2014 / Present / Member of the Lead Coordinator / Group of the African Group of Negotiator and Coordinator (AGN) of the Loss and Damage for the AGN

## Selected Publications

- **Lead Author** (2019) for chapter 7 (*Risk management and decision making in relation to sustainable development*) of the IPCC Special Report on *Climate Change, Desertification, Land Degradation, Sustainable Land Management, Food Security, and Greenhouse gas fluxes in Terrestrial Ecosystems*.
- Robert, E. and Zakieldeem, S. A. (2018). Pocket guide to loss and damage under the UNFCCC, a book edited by Sharma, A. published by European Capacity Building initiative (ecbi) and the International Institute for Environment and Development (iied).
- Mohamed, N., A., Osman, H., M. F. Zakieldeem, S. A., (2016). Ecological Zones Degradation Analysis in Central Sudan during a Half Century Using Remote Sensing and GIS. *Journal Advances in Remote Sensing*
- Zakieldeem, S. A. and Elhassan, N. G. (2015). Climate Change Impacts, Vulnerability and Adaptation in Sudan Sudan. *Academy of Sciences Journal-Special Issue (Climate Change)*, Vol. 11, 2015 Sudan Academy of Sciences Journal
- Lead Author (2014) for Chapter 13 (Livelihood and Poverty) of the Fifth assessment Report of the Intergovernmental Panel on climate Change (IPCC), working Group II (vulnerability and adaptation).
- Warner, K and S.A. Zakieldeem (2012). Loss and damage due to climate change: an overview of the UNFCCC negotiations. Oxford: European Capacity Building Initiative. Change, European Capacity Building initiative Background Paper (ecbi, UK)
- Zakieldeem, S.A. and Nagmeldin G. E. *Mohame, A., G., Abdalla, N., M. (2013)*. Climate change impacts and opportunities for biodiversity and ecosystems. National Biodiversity Planning to Support the Implementation of the CBD 2011-2020 Strategic Plan in the Republic of Sudan, Higher Council for Environment and Natural Resources.



# Alpha Kaloga

 @KalogaAlpha  
 Kalogaalpha  
 Alpha Oumar Kaloga



Alpha Oumar Kaloga has 12 years of experience working with national governments and institutions. He supports countries in developing and implementing strategic frameworks for climate, including country programs, and conducts investment screenings for the GCF.

He has extensive experience in coordinating multi-stakeholder engagement in policy development and implementation in Africa. A member of the Lead Coordinator Group of the African Group of Negotiator, he serves as technical advisor and negotiator on climate finance and as Africa representative in the Executive Committee on Loss and Damage.

For the last four years, he has supported individual countries in linking individual funding proposals to national sustainable development plans, INDCs/NDCs, and other national strategies. He has built a strong network with key stakeholders and government bodies across the continent.

## Education

- Master's / Economic Policy, International Relations, and International Law / University of Bonn



# Dawn Pierre-Nathoniell



From 2015 to present, served as the representative of Small Island Developing States (SIDS) on the UNFCCC Executive Committee of the Warsaw International Mechanism for Loss and Damage; served two terms as co-chair, until the 12<sup>th</sup> meeting in October 2020.

Participated in UNFCCC negotiations from 2009 and from 2015, served as the Thematic Coordinator/Lead Negotiator on behalf of the Caribbean Community (CARICOM) and the Alliance of Small Island States (AOSIS) in the negotiating area of Loss and Damage.

From 2008, based at the Department of Sustainable Development supporting the work of the Department in: policy formulation and review, strategic planning, international negotiations, technical guidance for project and programme implementation, support for resource mobilisation, reporting under various

## Current Affiliation

Deputy Chief Sustainable Development and Environment Officer, Saint Lucia

## Areas of Expertise

Climate policy, climate change international negotiations, adaptation, loss and damage, biodiversity, protected areas, marine / coastal zone management, science and technology, education and awareness

## Education

- Master's / Marine Management / Dalhousie University in Halifax, Canada.
- Bachelor's / Natural Sciences (double Major Biology (Hons.) / the University of the West Indies (UWI), Cave Hill Campus, Barbados

## Professional Experience

- 2017 / Present / Deputy Chief Sustainable Development and Environment Officer / Department of Sustainable Development, Ministry of Education, Innovation, Gender Relations and Sustainable Development
- 2011 / 2017 / Sustainable Development and Environment Officer / Formerly Ministry of Physical Development and the Environment; transitioned to Ministry of Sustainable Development, Energy, Science and Technology
- 2008 / 2011 / National Project Coordinator. / Special Programme on Adaptation to Climate Change (SPACC Project). / World Bank-GEF, regionally executed by the Caribbean Community Climate Change Centre (CCCCC) and nationally executed through the Ministry of Physical Development and the Environment
- 1997 / 2000 / National Project Coordinator. / National Biodiversity Strategy and Action Plan, First National Report to the Convention on Biological Diversity (CBD) and Participation in the Pilot Phase of the Clearing House Mechanism / UNEP-GEF, executed through Department of Fisheries, Ministry of Agriculture, Lands, Forestry and Fisheries
- 1996 / 2007 / Fisheries Biologist / Department of Fisheries, Ministry of Agriculture, Lands, Forestry and Fisheries

## Selected Publications

- Pierre-Nathoniell, D. 2021. *Saint Lucia's Climate Policy Environment: Towards Concrete Action-A Discussion Paper*, The UWI Open Campus Saint Lucia Virtual Country Conference 2021. Visioning Sustainable Futures: Confronting the Threats of Climate Change and Climate Variability February 16-17, 2021.
- Joseph, J and D. Pierre-Nathoniell. 2020. *Saint Lucia's Progress in Narrowing Gender Disparities in Climate Change Action. Unraveling Gender Inequalities across the Caribbean: EnGenDER-Enabling Gender-Responsive Disaster Recovery, Climate and Environmental Resilience*. Newsletter December 2020, Edition: 2.

Conventions and associated protocols and inter-agency coordination. Support spans the areas of: biodiversity and biosafety; chemicals and hazardous waste management; climate change; ocean governance; protected areas management; science and technology; SIDS development agenda; and the policy and legislative agenda.

From March 2019, nominated as Saint Lucia's Loss and Damage contact point serving under the UNFCCC Climate Change Focal Point Department.

“

The science indicates that countries will increasingly run up against the limits to adaptation. I remain hopeful that action on loss and damage will be better financed, including through the work of the ASEG and affiliate organisations, so that SIDS and particularly vulnerable developing countries like mine, will be better equipped to address loss and damage.

”

- Pierre-Nathaniel, D, L. Siegele, L.Roper, I. Menke. 2019. Loss and Damage at COP25 – A hard fought step in the right direction. A Climate Analytics online resource.
- Pierre-Nathaniel, D. (2017). Unavoidable, Irreversible, Irreparable and Permanent Loss in the Face of Climate Change? Government of Saint Lucia online resource.
- Pierre-Nathaniel, D.D. 2001. *Conservation, Development and Societal Issues: A Few Illustrations from Saint Lucia*. Prepared for CARREN 2001: Development of Renewable Natural Resources in the Caribbean Islands in the 21<sup>st</sup> Century: Workshop No. 5: Conservation, Development and Society.
- Pierre-Nathaniel, D.D. 2004. *Going Places: The Case of the Soufriere Marine Management Area (SMMA), Saint Lucia*. Prepared for the Workshop on the Application of the Ecosystem Approach to Protected Areas in Small Islands: 12-16 December, Bangkok, Thailand.
- Pierre-Nathaniel, D.D. 2004. *Strengthening Relationships: The Case of the Soufriere Marine Management Area (SMMA), Saint Lucia*. In: UNEP: People and Reefs: Successes and Challenges in the Management of Coral Reef Marine Protected Areas. UNEP Regional Seas Reports and Studies No. 176. UNEP 2004.
- Pierre-Nathaniel, D.D. 2003. *Towards the Strengthening of the Association: The Case of the Soufriere Marine Management Association (SMMA), Saint Lucia*. Prepared for the Second International Tropical Marine Ecosystems Management Symposium (ITMEMS II), 24 - 27 March 2003: Westin Philippine Plaza Hotel, Cultural Centre of the Philippines (CCP) - Complex, Pasay City, Metro Manila, Philippines.
- Pierre-Nathaniel, D. D. and T. Nelson. 2006. *Sea Turtles: A Historical Perspective*. A Publication of the Department of Fisheries, Ministry of Agriculture, Forestry and Fisheries. The Star Publishing Company.
- Scott, S., D. Pierre, L. Walker, and J. Rambally. 1997. *Proposed Praslin Protected Landscape: Results of Marine Study*. Funded by Global Environmental Facility Small Grants Programme, United Nations Development Programme, Barbados and Saint Lucia National Trust.





# Farhan Akhtar



Farhan Akhtar is chief scientist for climate change at the U.S. Department of State. He is the senior State Department scientist on Sub-committee for Global Change Research, which coordinates climate change research for the United States government. In this function, he played a key role in producing international portions of the Fourth U.S. National Climate Assessment. Since 2019, he has served as the lead representative for the United States at the Intergovernmental Panel on Climate Change, and oversees U.S. scientific and technical input into the IPCC. At the UNFCCC, he oversees U.S. engagement on adaptation, loss and damage, research and systematic observations, periodic review, and other science issues.

Since 2017, Farhan has served on the Executive Committee for the Warsaw International Mechanism for loss and damage associated with the adverse impacts of climate change.

From 2015-2019, he has served as the U.S. council member for the Least Developed Countries Fund and Special Climate Change Fund.

At the Georgia Institute of Technology, his research focused on long-term planning for regional air pollution mitigation. In 2013 he was awarded a prestigious American Association for the Advancement of Science (AAAS) Science Policy Fellowship at the Department of State. From 2010-2012, Farhan was a postdoctoral fellow at the Environmental Protection Agency, leading development of advanced modeling tools to study the effect of aligning climate change mitigation and air quality policies, including in developing countries, as well as the intercontinental transport of air pollution.

## Current Affiliation

U.S. State Department

## Education

- PhD / Atmospheric Chemistry / Georgia Institute of Technology
- B.Sc. / Earth and Atmospheric Sciences / Georgia Institute of Technology

## Professional Experience

- 2017 / Present / Chief Climate Scientist / U.S. State Department
- 2015 / Present / Foreign Affairs Officer / U.S. State Department
- 2013 / 2015 / AAAS Science & Technology Policy Fellow / U.S. State Department
- 2010 / 2013 / ORISE Postdoctoral Fellow / U.S. Environmental Protection Agency



# Jelena Miloš

## Current Affiliation

Directorate-General European Civil Protection and Humanitarian Aid Operations, European Commission

## Areas of Expertise

Environmental policy, climate adaptation, disaster preparedness

## Education

- M.Sc. / Environmental Policy and Regulation / London School of Economics and Political Science, UK
- B.Eng. / Chemical Engineering / Dalhousie University, Canada

## Professional Experience

- 2014 / Present / Policy Officer / European Commission
- 2004 / 2014 / Programme Manager / Delegation of the European Union to Bosnia and Herzegovina

# EXPERT GROUP ON SLOW ONSET EVENTS





The terms of reference for the Expert Group on Slow Onset Events (SOEs) were adopted at ExCom12 in 2020, and the group was launched later in the same year. It currently comprises 11 members, including 4 ExCom members serving as facilitators of the expert group.

The work of the Expert Group on SOEs focuses on strategic workstream (a) of the current five-year rolling workplan of the ExCom, which aims to enhance cooperation and facilitation in relation to slow onset events, by both strengthening the understanding of slow onset events, as well as enhancing the capacity to address them, in particular at regional and national levels.


Slow onset events include increasing temperature, desertification, loss of biodiversity, land and forest degradation, glacial retreat, sea level rise, ocean acidification, and salinization. The work of the Expert Group on SOEs focuses on both the risks and impacts of slow onset events.

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# Akhilesh Surjan

 <https://www.linkedin.com/in/akhileshsurjan/>

 <https://www.facebook.com/akhilesh.surjan>

Researcher profile: <https://researchers.cdu.edu.au/en/persons/akhilesh-surjan>

University Profile: <https://www.cdu.edu.au/research-and-innovation/higher-degree-research/find-supervisor/disaster-mgmt/associate-professor-akhilesh-surjan>



**Lead Author:**  
**Fifth Assessment Report (AR5) of the Intergovernmental Panel on Climate Change (IPCC). Working Group-II report on 'Impacts, Adaptation, and Vulnerability' (2010-14)**

**Contributing Author:**  
**United Nation's Global Assessment Report on Disaster Risk Reduction (2010-11).**  
**Reviewer: IPCC's Special Report for Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation (SREX) (2010-11)**

**Editor: Sustainability Science, a Springer journal (2013-2019)**  
**Visiting Associate Professor: Keio University, Japan (2019)**  
**Visiting Professor: Hokkaido University's Hokkaido Summer Institute, Japan (2020 & 2021)**

**Program Committee Member: Australian & New Zealand Disaster and Emergency Management Conference Committee (2015-19)**

## Current Affiliation

Associate Professor / Research and Theme Leader - Humanitarian, Emergency and Disaster Management Studies Program, Charles Darwin University, Darwin, Australia

## Areas of Expertise

Disaster risk reduction, climate change adaptation (in human settlements), urban sustainability (includes: urban resilience, local governance, sustainable consumption and waste reduction).

## Education

- PhD / Global Environmental Studies / Kyoto University, Kyoto, Japan
- Master's / Planning (with specialization in Housing) / School of Planning and Architecture (National University), New Delhi, India
- Bachelor's / Architecture / Maulana Azad College of Technology (renamed as M. A. National Institute of Technology) Bhopal, India

## Professional Experience

- 2015 / Present / Associate Professor/Research and Theme Leader - Humanitarian, Emergency and Disaster Management Studies Program / Charles Darwin University, Darwin, Australia
- 2012 / 2015 / Associate Professor, Inter-Graduate School Program for Sustainable Development and Survivable Societies / Kyoto University, Kyoto, Japan
- 2008 / 2012 / Research Fellow / United Nations University, Tokyo, Japan

## Selected Publications

- Edited Book: Shaw, R., Atta-Ur-Rahman, Surjan, A., & Parvin, G. A. (Eds.) (2016). *Urban Disasters and Resilience in Asia*. Butterworth-Heinemann (imprint of Elsevier), 368 pages
- Series Editor: *Disaster Resilience and Green Growth*, a Springer book series
- Section Editor: *Progress in Disaster Science*, a Elsevier journal
- Sangha, K. K., Russell-Smith, J., Edwards, A. C., & Surjan, A. (2021). Assessing the real costs of natural hazard-induced disasters: A case study from Australia's Northern Territory. *Natural Hazards*, 1-20.
- Izumi, T., Sukhwani, V., Surjan, A. & Shaw, R (2020) *Managing and responding to pandemics in higher educational institutions: initial learning from COVID-19*, International Journal of Disaster Resilience in the Built Environment.
- Ishiwatari, M., & Surjan, A. (2019). Good enough today is not enough tomorrow: Challenges of increasing investments in disaster risk reduction and climate change adaptation. *Progress in Disaster Science*, 1, 1-3

“

Climate change induced Slow onset Events (SoE) often remain out of the limelight. Together with Expert Group members, I will highlight the need for proactive collaboration to reduce impacts of SOEs on human-ecological systems.

”

- Trias, A. P. L., Lassa, J., & Surjan, A. (2019). *Connecting the actors, discovering the ties: Exploring disaster risk governance network in Asia and the Pacific*. *International Journal of Disaster Risk Reduction*, 33, 217–228. Elsevier.
- Lassa, J. A., Surjan, A., Caballero-Anthony, M., & Fisher, R. (2019). *Measuring political will: An index of commitment to disaster risk reduction*. *International Journal of Disaster Risk Reduction*, 34, 64–74. Elsevier.
- Pandey, R. U., Surjan, A., & Kapshe, M. (2018). Exploring linkages between sustainable consumption and prevailing green practices in reuse and recycling of household waste: Case of Bhopal city in India. *Journal of Cleaner Production*, 173, 49–59. <https://doi.org/10.1016/j.jclepro.2017.03.227>
- Zander Kerstin K., Surjan Akhilesh & Garnett Stephen T. (2016). *Exploring the effect of heat on stated intentions to move* *Climatic Change* (Vol 138, Issue 1, pp 297–308), Springer



## Albert Salamanca



Albert is a Senior Research Fellow at the Stockholm Environment Institute's Asia Centre where he leads its Climate Change, Disasters and Development cluster. Albert has over 15 years of experience working on climate change adaptation, natural resources management, conservation, development and sustainable livelihoods issues in several countries in Southeast Asia. His current research interests are on the themes of resilience, risk and vulnerabilities, traditional ecological knowledge, mobility and spatial linkages, disaster displacement, and sustainable livelihoods.

### Current Affiliation

Senior Research Fellow, Stockholm Environment Institute (Asia Centre, Thailand)

### Areas of Expertise

Resilience, risk and vulnerabilities, traditional ecological knowledge, mobility and spatial linkages, disaster displacement and sustainable livelihoods

### Education

- PhD / Human Geography / University of Durham, Durham, UK
- Master's / Environmental Management and Development / The Australian National University, Canberra, Australia
- Graduate Diploma / Environmental Management and Development / The Australian National University, Canberra, Australia
- Bachelor's / Biology / Silliman University, Philippines

### Professional Experience

- 2017 / Present / Senior Research Fellow / Stockholm Environment Institute – Asia Centre
- 2012 / 2017 / Research Fellow / Stockholm Environment Institute – Asia Centre

He recently led a project looking at the critical challenges of the seas of Southeast Asia, where issues of marine microplastics, sea level rise, and ocean acidification were addressed. Together with ETC Zurich, he is currently investigating the adaptation to sea-level rise in highly stressed coastal social-ecological systems in Southeast Asia. He is also part of a large consortium addressing sustainable development challenges in three major Asian deltas: Red River, Mekong and the Brahmaputra-Ganges-Meghna under the UK GCRF Living Deltas Hub.

Albert wrote the coasts and oceans chapter of the 5th ASEAN State of the Environment Report. His recently co-edited volume entitled, “Climate Change, Disasters, and Internal Displacement in Asia and the Pacific” published by Routledge.

“

In my role at WIM, I intend to bring to the table insights, experiences and learnings from the communities affected by sea level rise and other slow onset events in Southeast Asia. I want to see that their concerns and aspirations are meaningfully considered in global discussions.

”

## Selected Publications

- Salamanca, A., Davis, M., Anshell, N. & Tran, M. (2021) *Inclusive Resilience Outlook, Prepared for the 7th Asia-Pacific Climate Change Adaptation Forum, 8-12 March 2021*. Asia Pacific Adaptation Network, Bangkok.
- Ensor, J., Tuhkanen, H., Boyland, M., Salamanca, A., Johnson, K., Thomalla, F., & Lim Mangada, L. (2021). Redistributing resilience? Deliberate transformation and political capabilities in post-Haiyan Tacloban. *World Development*, 140(105360). doi:10.1016/j.worlddev.2020.105360
- Scott, M., & Salamanca, A. (Eds.). (2020). *Climate Change, Disasters, and Internal Displacement in Asia and the Pacific: A Human Rights-Based Approach*. London: Routledge.
- Salamanca, A. (2020) The Challenge of Ocean Acidification in Southeast Asia. *ASEANFocus*, 1/2020, 18-19.
- Scott, M. & Salamanca, A. (2020) A Human Rights-based Approach to Internal Displacement in the Context of Disasters and Climate Change. *Refugee Survey Quarterly*, 39, 564-71.
- Salamanca, A., Souky, O, Rigg, J., and Ernerot, J. (2017) “Mobility, risky spaces and vulnerable households in Laos: an analysis of villages affected by flooding”, in Middleton, C., Elmhirst, R., and Chantavanich, S., *Living With Floods in a Mobile Southeast Asia: A Political Ecology of Vulnerability, Migration and Environmental Change*. London: Earthscan.
- Salamanca, A. and Rigg, J. (2017) ‘Adaptation to climate change in Southeast Asia: developing a relational approach’. *Routledge Handbook of the Environment in Southeast Asia*, P. Hirsch (ed.). Routledge, London. 280–97.
- Salamanca, A. and Nguyen, H. (2016) *Climate Change Adaptation Readiness in ASEAN Countries*. Discussion Brief. Stockholm Environment Institute, Bangkok.
- Salamanca, A. and Davis, M. (2013) *Building and Sharing Knowledge for Adaptation: Lessons from the Regional Climate Change Adaptation Knowledge Platform for Asia*. SEI and AKP Policy Brief. SEI Policy Brief. Stockholm Environment Institute, Bangkok, Thailand
- Salamanca, A., Dwisasanti, N., Rigg, J. and Turner-Walker, S. (2013) *Assessment of Adaptation Needs, Policies and Priorities: Cases from Indonesian Islands*. Adaptation Knowledge Platform, Partner Report Series, 11. Stockholm Environment Institute, Bangkok, Thailand.



## Bettina Koelle



Bettina Koelle is a Geographer by training and has 20 years of experience in facilitating community-based development and adaptation and in policy-related research and discourse both in South Africa and globally.

She is a contributing author to the current draft of the IPCC AR6 report and has previously contributed

to the IPCC Special Report on Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation (IPCC SREX).

She has also served on the South African Steering Committee of the National Implementing Entity (NIE) for the Adaptation Fund as well as on the Project Advisory Committee for the NIE's Community Adaptation Small Grants Facility Project.

In addition, as a member of the Adaptation Fund NGO network, she has actively contributed to developing the Adaptation Fund's Environmental and Social Policy.

### Current Affiliation

Red Cross Red Crescent Climate Centre

### Professional Experience

- Senior Knowledge and Learning Specialist / Red Cross Red Crescent Climate Centre
- 2013 / 2016 / Senior Technical Advisor/ Red Cross Red Crescent Climate Centre



## Jaroslav Mysiak

### Current Affiliation

Euro-Mediterranean Centre on Climate Change and University Ca' Foscari Venice, Italy

### Education

- PhD / Forestry Science/Bioinformatics / The University of Goettingen/Germany
- M.Sc. / Forestry Science/Forest management and economics / The Technical University Zvolen/Slovakia

### Professional Experience

- Senior scientist and research director / the Euro-Mediterranean Centre on Climate Change
- Senior scientist / Fondazione Eni Enrico Mattei



### Selected Publications

- Amadio, M., Scorzini, A.R., Carisi, F., Essenfelder, A.H., Domeneghetti, A., Mysiak, J. and Castellarin, A. (2019). Testing empirical and synthetic flood damage models: the case of Italy. *Natural Hazards and Earth System Sciences*, 19(3), pp.661–678.
- Calliari, E., Mysiak, J. and Vanhala, L. (2020). A digital climate summit to maintain Paris Agreement ambition. *Nature Climate Change*, 10(6), pp.480–480.
- Calliari, E., Staccione, A. and Mysiak, J. (2019). An assessment framework for climate-proof nature-based solutions. *Science of The Total Environment*, 656, pp.691–700.
- Larosa, F. and Mysiak, J. (2019). Mapping the landscape of climate services. *Environmental Research Letters*, 14(9), p.093006.
- Marzi, S., Mysiak, J., Essenfelder, A.H., Amadio, M., Giove, S. and Fekete, A. (2019). Constructing a comprehensive disaster resilience index: The case of Italy. *PLOS ONE*, 14(9), p.e0221585.
- Mysiak, J., Castellari, S., Kurnik, B., Swart, R., Pringle, P., Schwarze, R., Wolters, H., Jeuken, A. and van der Linden, P. (2018a). Brief communication: Strengthening coherence between climate change adaptation and disaster risk reduction. *Natural Hazards & Earth System Sciences*, [online] 18(11), pp.3137–3143.
- Mysiak, J., Torresan, S., Bosello, F., Mistry, M., Amadio, M., Marzi, S., Furlan, E. and Sperotto, A. (2018b). Climate risk index for Italy. *Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences*, 376(2121), p.20170305.
- Staccione, A., Broccoli, D., Mazzoli, P., Bagli, S. and Mysiak, J. (2021). Natural water retention ponds for water management in agriculture: A potential scenario in Northern Italy. *Journal of Environmental Management*, 292, p.112849.
- Sudmeier-Rieux, K., Arce-Mojica, T., Boehmer, H.J., Doswald, N., Emerton, L., Friess, D.A., Galvin, S., Hagenlocher, M., James, H., Laban, P., Lacambra, C., Lange, W., McAdoo, B.G., Moos, C., Mysiak, J., Narvaez, L., Nehren, U., Peduzzi, P., Renaud, F.G. and Sandholz, S. (2021). Scientific evidence for ecosystem-based disaster risk reduction. *Nature Sustainability*.



## Musonda Mumba



Musonda Mumba is the Director of UNDP's Rome Centre for Sustainable Development. She is also the outgoing Chair of the Global Partnership on Forest and Landscape Restoration (GPFLR) and Vice-Chair of the Collaborative Partnership on Forests (CPF). Prior to joining UNDP she served as the Chief of the Terrestrial Ecosystems Unit of UN Environment Programme.

She has over 25 years of experience working at both scientific and political levels on issues related to climate change adaptation, conservation, protected areas management and wetlands ecology. She has also served as UNEP's focal point on Mountains.

### Current Affiliation

Rome Centre for Sustainable Development, UNDP

### Education

- PhD / Wetland conservation and hydrology / University College London

### Professional Experience

- Director / Rome Centre for Sustainable Development (UNDP)
- Chief of the Terrestrial Ecosystems Unit / UN Environment Programme
- Programme Officer / UN Environment Programme - Climate Change Adaptation Unit



## Parashram Jakappa Patil



Parashram Patil is an agricultural and natural resources economist. He is a well-known international expert in the field of agriculture and natural resources economics.

### Current Affiliation

NMML Fellow, Nehru Memorial Museum and Library Ministry of Culture, Government of India

### Areas of Expertise

Agriculture economics, forest accounting, climate change

### Education

- Post Doctorate / Pune University
- PhD / Shivaji University Kolhapur
- Master's / Shivaji University Kolhapur
- ADR / Diploma / Shivaji University Kolhapur
- Bachelor's / Shivaji University Kolhapur
- Company Secretary (Intermediate) / Indian Institute of Company Secretaries of India

He has earned Doctorate from Shivaji University, Kolhapur, (Agro based Industry of India) and Post Doctorate from Savitribhai Phule University, Pune (Natural Resources Accounting). He is an NMML Fellow. He is presently working as consultant/expert, including for the United Nations, the Asian Development Bank and the Government of India. His research centers around issues related to agriculture and food security, agri-trade and agri-value chains, crop insurance, subsidies, sustainability and poverty alleviation, forest accounting, climate change and climate finance.

“

My contribution is focusing on identifying and addressing the impact of climate change on livelihoods of the people involved in agriculture and forestry.

”

### Professional Experience

- 2021 / Present / Fellow / NMML, Nehru Museum Memorial & Library, Ministry of Culture, Govt of India, New Delhi
- 2021 / 2021 / Consultant/ Asian Development Bank
- 2021 /2021 / CMD/ Flory Agro Exports LLP
- 2021 /2021 / Consultant/ Start-up India
- 2019 /2020 / Consultant/Government of India
- 2016 /2019 / Post-Doctoral Fellow/University of Pune

### Selected Publications

- Faniband, M., Patil, P. and Naykawade, T. (2020). *Relationship between tea industry specific factors and tea companies share prices: Empirical evidence from an emerging economy (in press)*. *International Journal of Business and Globalisation*.
- Jadhav, P., Bandhu, D. and Patil, P. (2020). Relationship between Foreign Direct Investment in Infrastructure and Economic Growth: Evidences from Indian Economy. *7th Biennial International Conference on Energy and Infrastructure Management*.
- Nayak, A.K. ed., (2019). *Transition Strategies for Sustainable Community Systems: Design and Systems Perspectives*. [online] [www.springer.com](http://www.springer.com). Springer International Publishing.
- Patil, P. (2017a). Forest accounting: A theoretical perspective. *International Journal of Accounting and Economics Studies*, 5(1), p.36.
- Patil, P. and Faniband, M. (2020a). (PDF) *Liberalisation and Cashew Industry: Evidence from India (1965 to 2018) (In Press)*. [online] ResearchGate.
- Patil, P. and Faniband, M. (2020b). Impact of trade liberalisation on tea industry in india (1964 to 2017). 49, pp.107–121.
- Patil, P., Jadhav, P. and Maiti, M. (2020). The impact of new agricultural export policy on Indian agriculture exports. *Journal of Public Affairs*.
- Patil, P.J. (2017b). Forest Accounting and Ecological Sustainability. *Global Journal of Management And Business Research*. [online]
- Patil, P.J. (2020a). Cashew : Export Challenges Ahead. *AMC Indian Journal of Entrepreneurship*, 3(1), p.42.
- Patil, P.J. (2020b). Dependence between Sugar Industry and Sugar Companies Share Prices: Evidence from India. *Finance India*, p. (ABDC Index)



# Rubén Basantes Serrano

✉ [https://twitter.com/RBSerrano\\_geo](https://twitter.com/RBSerrano_geo)  
<https://scholar.google.com/citations?user=zavyBoYAAAAJ&hl=fr>  
<https://www.researchgate.net/profile/Ruben-Basantes>



**My research focuses on understanding climate through glacier response in the Andes region with special attention in the Amazonian influence on the behavior of the inner-tropical glaciers. I collaborate with international research groups such as the GLACIOCLIM monitoring program (France), the research teams of INAIGEM (Peru), UMSA (Bolivia), UAF and UAH (US). Moreover, I collaborate with the Undersecretary of Climate Change as advisor in climate risk and adaptation in my country.**



**My contribution focuses on defining the best alternatives to address the losses and damages due to glacier retreat and related impacts on water resources and society in developing countries.**



## Current Affiliation

Grupo de investigación en Ciencias de la Tierra y Clima, Universidad Regional Amazónica (IKIAM), Tena, Ecuador

## Areas of Expertise

Glaciology, remote sensing, risk assessment, understanding climate through the glacier response in the Andes region.

## Education

- PhD / Earth, Universe and Environmental Sciences / Université Grenoble Alpes
- M.Sc. / Earth Science and environment / Université de Nice, Sophia Antipolis
- B.Sc. / Geography / Universidad de las Fuerzas Armadas

## Professional Experience

- 2019 / Present / Assistant Professor at Earth and Water Science Faculty / Universidad regional Amazónica Ikiam, Ecuador
- 2018 / 2019 / Climate risk and adaptation advisor / Government of Ecuador
- 2017 / 2018 / Postdoctoral Researcher / Centro de Estudios Científicos (CECS), Glaciology Lab, Chile
- 2014 / 2016 / Research Assistant / World Glacier Monitoring Service (WGMS) "Capacity Building and Twinning for Climate Observing Systems, CATCOS" - Service d'Observation GLACIOCLIM Les GLACIers, un Observatoire du CLIMat

## Selected Publications

- Jose A. Marengo, Teddy Allen, Luiz Alvarado, José Álvaro Silva, Lincoln Alves, Nahuel Arenas, Grinia Avalos Roldan, Pablo Ayala, Omar Baddour, Julian Baez, Rubén Basantes-Serrano, and 37 others. [State of the Climate in Latin America and the Caribbean](#), World Meteorological Organization (WMO); 2021 (WMO- No. 1264).
- Rosero, P., V. Crespo-Pérez, R. Espinosa, P. Andino, A. Barragan, P. Moret, M. Gobbi, F.G. Ficetola, R. Jaramillo, P. Muriel, F. Anthelme, D. Jacobsen, O. Dangles, T. Condom, L. Gielly, J. Poulenard, A. Rabatel, R. Basantes, B. Cáceres Correa, S. Cauvy-Fraunié. 2021. Multi-taxa colonisation along the foreland of a vanishing equatorial glacier. *Ecography*, 44, 1-12, doi: 10.1111/ecog.05478 Web link
- Basantes-Serrano, R., Rabatel, A., Vincent, C. and Sircugue, P.: An optimized method to calculate the geodetic mass balance of mountain glaciers, *J. Glaciol.*, 1-15, doi:doi: 10.1017/jog.2018.79, 2018.
- Vincent, C., Sorucu, A., Azam, M. F., Basantes-Serrano, R., Jackson, M., Kjølmoen, B., Thibert, E., Wagnon, P., Six, D., Rabatel, A., Ramanathan, A., Berthier, E., Cusicanqui, D., Vincent, P. and Mandal, A.: A Nonlinear Statistical Model for Extracting a Climatic Signal From Glacier Mass Balance Measurements, *J. Geophys. Res. Earth Surf.*, doi:10.1029/2018JF004702, 2018.
- Basantes-Serrano, R., Rabatel, A., Francou, B., Vincent, C., Maisincho, L., Cáceres, B., Galarraga, R. and Alvarez, D.: Slight mass loss revealed by reanalyzing glacier mass-balance observations on Glaciar Antisana 15α (inner tropics) during the 1995-2012 period, *J. Glaciol.*, 62(231), 124-136, doi:10.1017/jog.2016.17, 2016.

# EXPERT GROUP ON NON-ECONOMIC LOSSES





The terms of reference for the Expert Group on Non-economic Losses (NELs) were adopted at ExCom 12 in 2020, and the group was launched later in 2020. It currently comprises 18 members, including 4 ExCom members serving as facilitators of the expert group.

The work of the expert group on NELs focuses on strategic workstream (b) of the current five-year rolling workplan of the ExCom, which aims to enhance cooperation and facilitation in relation to non-economic losses through enhancing data collection on, as well as knowledge and awareness of, non-economic losses, facilitating their mainstreaming in measures at the national level.

Non-economic losses refer to a broad range of losses that are not easily quantifiable in financial terms and not commonly traded in markets. Non-economic losses are additional to the loss of property, assets, infrastructure, agricultural production and revenue that can result from the impacts of the adverse effects of climate change. Non-economic losses may affect individuals (such as loss of life, health impacts or losses due to induced human mobility), society (such as loss of territory, cultural heritage, indigenous or local knowledge, or societal or cultural identity) or the environment (such as loss of biodiversity or ecosystem services).



# Andrea Carmen



**Andrea Carmen, belonging to the Yaqui Nation, has served as a human rights observer in crisis situations impacting Indigenous Peoples around the world and was IITC's team leader for work on the UN Declaration on the Rights of Indigenous Peoples for 20 years.**

**She has been an expert presenter at UN bodies and seminars addressing a wide range of human rights and environmental justice issues.**

**She also carries out capacity building programs and trainings for Indigenous human rights defenders, advocates and new generations of leaders.**

**She was one of two Indigenous representatives to formally address the UN General Assembly for the first time in history at the UN Earth Summit +5 and she was the first Indigenous woman to be selected as Rapporteur in 2006 for the UN Expert Seminar on Indigenous Peoples' Permanent Sovereignty over Natural Resources and their Relationship to Land.**

**In 2019, she was selected to represent North America Indigenous Peoples on the new Facilitative Working Group for UNFCCC's Local Communities and Indigenous Peoples Platform in its first three years of operation and also served as its co-chair in 2020-2021.**

## **Current Affiliation**

**UNFCCC Facilitative Group of the Local Communities and Indigenous Peoples Platform**



# Benon Yassin

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 www.facebook.com/benonyassin



Benon Bibbu Yassin has more than 20 years of experience in environment and climate change management, and biodiversity conservation having worked in various capacities in Malawi Government mostly in the Ministry of Forestry and Natural Resources and also in the agricultural sector particularly in the Tea Industry with practical experience on soil management, crop husbandry, and management of pests and diseases. He has also worked in various expert groups on environment and climate change including the Least Developed Countries Expert Group (LEG); Expert Reviewer under the United Nations Framework Convention on Climate Change Roster of Experts that provides technical assessments to developed and developing countries under the Monitoring, Verification and Reporting framework for Greenhouse Gas Inventories, National Communications, Biennial Reports and Biannual Updates Reports. He has also facilitated the National and District State of

Environment Reporting processes in Malawi and was a Member of High-Level Advisory Group of the 6th Global Environment Outlook facilitated by the United Nations Environment Programme. He has also coordinated development and management of projects and programmes on environment and climate change management including resource mobilization. He currently supervises 10 members of staff with different expertise on biodiversity, environmental planning, monitoring and research.



With experience working with communities through local level structures on environment and climate change management, Mr. Yassin adequately understands the challenges vulnerable communities face on matters of climate change and their associated non-economic losses resulting from climate change impacts. His contribution to the WIM will provide an insight on real issues on the ground.



## Current Affiliation

Environmental Affairs Department, Ministry of Forestry and Natural Resources  
UNFCCC Least Developed Countries Expert Group

## Areas of Expertise

Environment and climate policy development and implementation, adaptation planning and implementation, integrated environmental assessment and reporting, biodiversity conservation and decentralized environmental management.

## Education

- M.Sc. / Plant Protection (Pathology) / University of Malawi/Bunda College of Agriculture
- B.Sc. / Agriculture / University of Malawi/Bunda College of Agriculture
- Diploma in Agriculture / University of Malawi / Bunda College of Agriculture

## Professional Experience

- 2017 / Present / Deputy Director of Environmental Affairs Responsible for Environmental Planning, Monitoring and Research and Biodiversity Conservation. / Environmental Affairs Department, Ministry of Forestry and Natural Resources
- 2011 / 2017 / Chief Environmental Officer / Environmental Affairs Department, Ministry of Natural Resources, Energy and Mining
- 2011 / 2017 / Principal Environmental Officer / Environmental Affairs Department, Ministry of Natural Resources, Energy and Mining
- 1998 / 2000 / Outreach Expert for Capacity 21 Programme / Environmental Affairs Department, Ministry of Natural Resources, Energy and Mining

## Selected Publications

- Mkandawire, Martin & Yassin, Ben. (2004). Decentralisation of environmental management in Malawi: Lessons from donor-supported projects. Journal of Environmental Assessment Policy and Management. 06. 51-72. 10.1142/S1464333204001596.





# Caroline Zickgraf



Caroline Zickgraf is a social and political scientist whose work focuses on the human impacts of climate change at the science-policy interface. She specializes in a range of human mobility issues such as migration, displacement, and immobility drivers, dynamics, and impacts. She works primarily in West African countries, but also has field experience in Southeast Asia and the Indian Ocean.

Currently, she is the Scientific Coordinator for the HABITABLE project (2020–2024), funded by the European Commission, which looks at current and future scenarios of climate change and human mobility in sub-Saharan Africa and Southeast Asia. In addition, she has consulted for the World Bank, the Nansen Initiative, the Green European Foundation (GEF), the International Center for Migration Policy Development (ICMPD), UN Environment Programme, and the Food and Agriculture Organization of the United Nations (FAO) on the links between climate change and migration.

## Current Affiliation

The Hugo Observatory: Environment, Migration, Politics University of Liège (Belgium)

## Education

- PhD / Political and Social Sciences / University of Liège
- M.Phil. / Migration history / Leiden University
- B.A. / Migration history / Michigan State University

## Professional Experience

- Deputy Director / The Hugo Observatory: Environment, Migration, Politics / University of Liège (Belgium)
- Research Fellow / UR-SPHERES at the University of Liège.
- Environment and migration and environmental politics Lecturer / University of Liège, l'Institut des Hautes Études des communications Sociales (IHECS), Brussels
- Environment and migration and environmental politics Lecturer / Sciences Po's Paris School of International Affairs (PSIA)



# Deissy Martinez Baron



Deissy Martinez Baron is the CCAFS Regional Program Leader for Latin America based at the International Center for Tropical Agriculture. A social science researcher with over eight years of experience in bringing science to support decision-making processes across scales, her research has focused on climate-smart agriculture, low emissions development and decarbonization pathways, policy-science interface and engagement, sustainable finance, and more recently, on social capital and enabling environments for building scaling pathways for low carbon and climate resilient food systems.

## Current Affiliation

CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS), International Center for Tropical Agriculture

## Education

- PhD (in progress) / Human Geography / Copenhagen University
- M.Sc. / Rural Development / Pontifical Javeriana University, Colombia
- B.A. / Economics / Nueva Granada Military University, Colombia
- B.A. / International Affairs and Political Science / Universidad Militar Nueva Granada, Colombia

## Professional Experience

- 2018 / Present / Regional Programme Leader / CGIAR Research Program on Climate Change Agriculture and Food Security (CCAFS) for Latin America, International Center for Tropical Agriculture
- 2013 / 2018 / Science Officer / The CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS) for Latin America
- 2011 / 2012 / Consultant / National Planning Department (DNP)
- 2009 / 2012 / Consultant / The National Administrative Department of Statistics

## Selected Publications

- Acosta, M., Riley, S., Bonilla-Findji, O., Martínez-Barón, D., Howland, F., Huyer, S., ... & Chanana, N. (2021). Exploring Women's Differentiated Access to Climate-Smart Agricultural Interventions in Selected Climate-Smart Villages of Latin America. *Sustainability*, 13(19), 10951.
- Arango, J., Ruden, A., Martínez-Baron, D., Loboguerrero, A.M., Berndt, A., Chacón, M., Torres, C., Oyhantcabal, W., Ricci, P., Ku-Vera, J. and Moorby, J., (2020). Ambition meets reality: Achieving GHG emission reduction targets in the livestock sector of Latin America. *Frontiers in Sustainable Food Systems*, 4, p.65.
- Osorio-García, A.M., Paz, L., Howland, F., Ortega, L.A., Acosta-Alba, I., Arenas, L., Chirinda, N., Martínez-Barón, D., Bonilla Findji, O., Loboguerrero, A.M. and Chia, E. (2020). Can an innovation platform support a local process of climate-smart agriculture implementation? A case study in Cauca, Colombia. *Agroecology and Sustainable Food Systems*, 44(3), pp.378-411.
- Chirinda, N., Loaiza, S., Arenas, L., Ruiz, V., Faverín, C., Alvarez, C., Martínez-Baron, D., ... & Trujillo, C. (2019). Adequate vegetative cover decreases nitrous oxide emissions from cattle urine deposited in grazed pastures under rainy season conditions. *Nature, Scientific reports*, 9.
- Andrieu, N., Howland, F., Acosta-Alba, I., Le Coq, J.F., Osorio-García, A.M., Martínez-Baron, D., Gamba-Trimiño, C., Loboguerrero, A.M. and Chia, E., (2019). Co-designing climate-smart farming systems with local stakeholders: A methodological framework for achieving large-scale change. *Frontiers in Sustainable Food Systems*, 3, p.37.
- Loboguerrero, A. M., Boshell, F., León, G., Martínez-Baron, D., Giraldo, D., Mejía, L. R., ... & Cock, J. (2018). Bridging the gap between climate science and farmers in Colombia. *Climate Risk Management*, 22, 67-81.

- Martinez Baron, D.; Orjuela, G.; Renzoni, G.; Loboguerrero Rodríguez, A.M.; Prager, S. 2018. Small-scale farmers in a 1.5oC future: The importance of local social dynamics as an enabling factor for implementation and scaling of climate-smart agriculture. *Current Opinion in Environmental Sustainability* 31: 112-119.
- Chirinda, Ngonidzashe, Arenas, Laura, Katto, Maria, Loaiza, Sandra, Correa, Fernando, Isthitani, Manabu, Loboguerrero, Ana Maria, Martínez-Barón, Deissy, Graterol, E., Jaramillo, S., Torres, C., Arango, M., Guzmán, M., Avila, I., Hube, S., Kurtz, D., Zorrilla, G., Terra, J., Irisarri, P., Tarlera, S., LaHue, G., Scivittaro, W., Noguera, A. and Bayer, C. (2018) Sustainable and Low Greenhouse Gas Emitting Rice Production in Latin America and the Caribbean: A Review on the Transition from Ideality to Reality, *Sustainability*, 10(3), p. 671.
- Aggarwal, Pramod K.; Jarvis, Andy; Campbell, Bruce M.; Zougmore, Robert B.; Khatri-Chhetri, Arun; Vermeulen, Sonja J.; Loboguerrero, Ana Maria; Sebastian, Leocadio S.; Kinyangi, James; Bonilla-Findji, Osana; Radeny, Maren; Recha, John; Martinez-Baron, Deissy; Ramirez-Villegas, Julian; Huyer, Sophia; Thornton, Philip; Wollenberg, Eva; Hansen, James; Alvarez-Toro, Patricia; Aguilar-Ariza, Andrés; Arango-Londoño, David; Patiño-Bravo, Victor; Rivera, Ovidio; Ouedraogo, Mathieu; Yen, Bui Tan. 2018. The climate-smart village approach: framework of an integrative strategy for scaling up adaptation options in agriculture. *Ecology and Society* 23(1): 14.
- Loboguerrero Rodríguez AM, Hansen J, Baethgen WE, Martinez Baron D. 2017. Climate services and insurance: scaling climate smart agriculture. *Agriculture for Development* 30:31-34.
- Loboguerrero, A. M., & Martínez Barón, D. (2017). Climate-Smart Agriculture across scales in Latin America. *Agriculture for Development* 30:10-11.



## Eustace Crispin d'Auvergne



Eustace Crispin d'Auvergne serves as Climate Change and Disaster Risk Management Coordinator with the Organisation of Eastern Caribbean States (OECS). Prior to joining OECS he has worked with the government of Saint Lucia in the fields of fisheries, natural resources, environment and energy. He also served as the country's climate change negotiator for 15 years.

Since 2019, Crispin has been the OECS' focal point for the GLZ's Project on Human Mobility in the context of climate change (HMCCC) which is being implemented in the Caribbean, the Pacific, the Philippines, East Africa and West Africa. During that time, he has also been engaged in a number of trainings, policy development, and outreach initiatives, both in the region and in Germany. Currently, he also serves on the Paris Committee on Capacity-Building.

### Current Affiliation

Organization of Eastern Caribbean States

### Education

- M.Sc. / Climate Change / University of the West Indies
- B.Sc. / Development Studies (Natural Resources) / University of East Anglia

### Professional Experience

- 2017 / Present / Climate Change and Disaster Risk Management Coordinator / Organisation of Eastern Caribbean States (OECS)
- 2004 / 2017 / Chief Sustainable Development & Environment Officer / Government of Saint Lucia
- 1999 / 2004 / Sustainable Development Officer / Government of Saint Lucia
- 1992 / 1998 / National Coordinator / USAID, OECS, GOSL ENCORE Project



## Godwell Nhamo



South Africa's National Research Foundation (NRF) C-Rated Researcher.

### Current Affiliation

University of South Africa (UNISA)

### Areas of Expertise

Interests are in the fields of climate policy, disaster risk reduction and management, climate resilience, adaptation and SDGs in low-income countries. Current work focuses on cyclones and floods in southern Africa.

### Education

- PhD / Environmental Education, with special focus on Environmental Policy / Rhodes University, South Africa
- M.Sc. / Environmental Planning / University of Botswana, Botswana
- B.Sc. Honours / Rural and Urban Planning / University of Zimbabwe

### Professional Experience

- August 2009 / Present / Exxaro Chair in Climate and Sustainability Transitions
- Chief Researcher / Institute for Corporate Citizenship at the University of South Africa

### Selected Publications

- Chapungu, L. and Nhamo, G. eds., (2021). *The Increasing Risk of Floods and Tornadoes in Southern Africa*. [online] [www.springer.com](http://www.springer.com). Springer International Publishing.
- Dube, K. and Nhamo, G. (2018). *Climate variability, change and potential impacts on tourism: Evidence from the Zambian side of the Victoria Falls / Request PDF*. [online] ResearchGate.
- Dube, K. and Nhamo, G. (2020). Vulnerability of nature-based tourism to climate variability and change: Case of Kariba resort town, Zimbabwe. *Journal of Outdoor Recreation and Tourism*, 29, p.100281.
- Dube, K., Nhamo, G. and Chikodzi, D. (2020). Climate change-induced droughts and tourism: Impacts and responses of Western Cape province, South Africa. *Journal of Outdoor Recreation and Tourism*, p.100319.
- Dube, K., Nhamo, G. and Chikodzi, D. (2021). Rising sea level and its implications on coastal tourism development in Cape Town, South Africa. *Journal of Outdoor Recreation and Tourism*, 33, p.100346.
- Muchuru, S. and Nhamo, G. (2019a). A review of climate change adaptation measures in the African crop sector. *Climate and Development*, 11(10), pp.873–885.
- Muchuru, S. and Nhamo, G. (2019b). Sustaining African water resources under climate change: Emerging adaptation measures from UNFCCC national communications. *African Journal of Science, Technology, Innovation and Development*, 11(2), pp.181–196.
- Nhamo, G. and Agyepong, A.O. (2019). Climate change adaptation and local government: Institutional complexities surrounding Cape Town's Day Zero. *Jàmhá: Journal of Disaster Risk Studies*, 11(3).
- Nhamo, G. and Chikodzi, D. (2021). *Cyclones in Southern Africa: Volume 1: Interfacing the Catastrophic Impact of Cyclone Idai with SDGs in Zimbabwe*. [online] [www.springer.com](http://www.springer.com). Springer International Publishing.
- Nhamo, G. and Dube, K. eds., (2021). *Cyclones in Southern Africa: Volume 2: Foundational and Fundamental Topics*. [online] [www.springer.com](http://www.springer.com). Springer International Publishing.



# Irfan Ullah

 Irfan Ullah Afridi <https://www.linkedin.com/in/irfan-ullah-afridi-6a742915a/>  
 @irfanullahCDO <https://twitter.com/IrfanUllahCDO>  
 #irfanullahdm <https://www.instagram.com/irfanullahdm/>



Mr. Irfan Ullah is a passionate social and climate activist with the ability to motivate and inspire individuals in identifying their potentials to continue and share the passion of serving others. Mr. Irfan has a Master's degree from the United Nations University Institute of Environment and Human Security Bonn. He has five years of multi-sectoral experiences spanning from climate change adaptation and resilience, flood risk assessment, vulnerability analysis, community mobilization, youth development and from conflict triggered disasters to earthquake, flood response and humanitarian crisis.



I am representing youth in WIM processes, and we are striving for transition from youth involvement to effective youth leadership. Moreover, to now just work for youth but to work with youth.



## Current Affiliation

Researcher at University Nations University; Institute for Environment and Human Security UNU (EHS)

## Areas of Expertise

Climate change adaptation, flood risk assessment, exposure and vulnerability analysis, community mobilization, youth empowerment and development

## Education

- B.Sc. / Disaster Management / Center for Disaster Preparedness & Management, University of Peshawar Pakistan
- M.Sc. / Geography of Environmental Risks and Human Security / United Nations University; Institute for Environment and Human Security Bonn Germany

## Professional Experience

- 2019 / Present / Founder / Sustainability Week Pakistan
- 2020 / 2021 / South and Central Asia Regional Focal Point / UNMGCY
- 2017 / 2018 / Community Development Officer / Islamic Relief Pakistan
- 2017 / 2017 / DRR Officer / FATA Disaster Management Authority KP Pakistan
- Oct 2016 / March 2016 / Research Associate / ACF International Pakistan

## Selected publications

- Makaruk, N. and Ullah Afridi, I. (2019). *Flood risk assessment of children under five years in Punjab, Pakistan*. [online] ResearchGate.
- Nawaz Khan, S., Nawaz Khan, A., Ullah, I., Rahman, A. and Qasim, S. (2016). *Impact of Insurgency On Higher Secondary Education: A Case Study of Tehsil Bara, Khyber Agency Fata, Pakistan*. *J. Sc. & Tech. Univ. Peshawar*, [online] 40(1), pp.29–49.
- Cyclone Disaster Vulnerability and Response Experiences: (A case study of April 2015 Mini-Cyclone) published by Ullah, Z. (2017). *Reducing Vulnerability through Disaster Risk Management (DRM) in Khyber Pakhtunkhwa (KPK) Province, Pakistan -Phase 3 The Royal Norwegian Embassy*. [online].
- Afridi, Irfan & Tiwari, Abinav. (2019). Exploring the existing assessment methods for determining the loss of ecosystems due to disasters.



# Kristie L. Ebi

🐦 @kristie\_ebi



Kristie L. Ebi, Ph.D., MPH has been conducting research and practice on the health risks of climate variability and change for 25 years, focusing on understanding sources of vulnerability; estimating current and future health risks of climate change; designing adaptation policies and measures to reduce risks in multi-stressor environments; and estimating the health co-benefits of mitigation policies of mitigation. She has supported multiple countries in Central America, Europe, Africa, Asia, and the Pacific in assessing their vulnerabilities and implementing adaptation policies and programs. She has been an author on multiple national and international climate change assessments, including the fourth U.S. National Climate Assessment, the Working Group II contribution to the 6<sup>th</sup> IPCC report. and the IPCC Special Report on Global Warming of 1.5°C. She has edited four books on aspects of climate change and has more than 200 publications.

## Current Affiliation

University of Washington, Seattle WA, USA

## Areas of Expertise

Human health and wellbeing risks of and health system responses to a changing climate

## Education

- PhD / Epidemiologic science / University of Michigan
- Master's of Public Health / University of Michigan

## Professional Experience

- 2014 / Present / Professor / Center for Health and the Global Environment

## Selected Publications

- Ebi, K.L., Åström, C., Boyer, C.J., Harrington, L.J., Hess, J.J., Honda, Y., Kazura, E., Stuart-Smith, R.F. and Otto, F.E.L. (2020a). Using Detection And Attribution To Quantify How Climate Change Is Affecting Health. *Health Affairs*, 39(12), pp.2168–2174.
- Ebi, K.L., Boyer, C., Ogden, N., Paz, S., Berry, P., Campbell-Lendrum, D., Hess, J.J. and Woodward, A. (2021a). Burning embers: synthesis of the health risks of climate change. *Environmental Research Letters*, 16(4), p.044042.
- Ebi, K.L., Harris, F., Sioen, G.B., Wannous, C., Anyamba, A., Bi, P., Boeckmann, M., Bowen, K., Cissé, G., Dasgupta, P., Dida, G.O., Gasparatos, A., Gatzweiler, F., Javadi, F., Kanbara, S., Kone, B., Maycock, B., Morse, A., Murakami, T. and Mustapha, A. (2020b). Transdisciplinary Research Priorities for Human and Planetary Health in the Context of the 2030 Agenda for Sustainable Development. *International Journal of Environmental Research and Public Health*, [online] 17(23), p.8890.
- Ebi, K.L. and Hess, J.J. (2020). Health Risks Due To Climate Change: Inequity In Causes And Consequences. *Health Affairs (Project Hope)*, [online] 39(12), pp.2056–2062.
- Ebi, K.L., Vanos, J., Baldwin, J.W., Bell, J.E., Hondula, D.M., Errett, N.A., Hayes, K., Reid, C.E., Saha, S., Spector, J. and Berry, P. (2021b). Extreme Weather and Climate Change: Population Health and Health System Implications. *Annual Review of Public Health*, 42(1), pp.293–315.
- Haines, A. and Ebi, K. (2019). The Imperative for Climate Action to Protect Health. *New England Journal of Medicine*, 380(3), pp.263–273.

“

My understanding of the health risks of climate change, and how those are projected to change under different climate and development scenarios, contribute to understanding the magnitude and pattern of loss and damage for population health and health systems.

”

- O'Neill, B.C., Carter, T.R., Ebi, K., Harrison, P.A., Kemp-Benedict, E., Kok, K., Kriegler, E., Preston, B.L., Riahi, K., Sillmann, J., van Ruijven, B.J., van Vuuren, D., Carlisle, D., Conde, C., Fuglestedt, J., Green, C., Hasegawa, T., Leininger, J., Monteith, S. and Pichs-Madruga, R. (2020). Achievements and needs for the climate change scenario framework. *Nature Climate Change*, 10(12), pp.1074–1084.
- Rockström, J., Gupta, J., Lenton, T.M., Qin, D., Lade, S.J., Abrams, J.F., Jacobson, L., Rocha, J.C., Zimm, C., Bai, X., Bala, G., Bringezu, S., Broadgate, W., Bunn, S.E., DeClerck, F., Ebi, K.L., Gong, P., Gordon, C., Kanie, N. and Liverman, D.M. (2021). Identifying a Safe and Just Corridor for People and the Planet. *Earth's Future*, 9(4).
- Sellers, S., Ebi, K.L. and Hess, J. (2019). Climate Change, Human Health, and Social Stability: Addressing Interlinkages. *Environmental Health Perspectives*, 127(4), p.045002.
- Watts, N., Amann, M., Arnell, N., Ayeb-Karlsson, S., Beagley, J., Ebi, K.L., Boykoff, M., Byass, P., Cai, W., Campbell-Lendrum, D., Capstick, S., Chambers, J., Coleman, S., Dalin, C., Daly, M., Dasandi, N., Dasgupta, S., Davies, M., Di Napoli, C. and Dominguez-Salas, P. (2020). The 2020 report of The Lancet Countdown on health and climate change: responding to converging crises. *The Lancet*, 397(10269).



## Mechtild Rössler

#mechtildrossler  
 @mechtildrossler  
 whc.unesco.org



Mechtild is an expert on climate change and cultural/natural heritage with 30 years of experience. She is the chair of the drafting group on the Climate Change and World Heritage Policy (to be adopted end of November 2021).

### Current Affiliation

Director UNESCO World Heritage Centre

### Areas of Expertise

Cultural landscape specialist, nature and culture interactions (resilience, risk management)

### Education

- PhD / Dr.rer.nat., Faculty for Geosciences / University of Hamburg, Germany
- Master's / Staatsexamen in Geography; Literature / University of Freiburg, Germany





# Sandeep Chamling Rai



Sandeep Chamling currently serves as the Senior Advisor Global Climate Adaptation Policy, Climate and Energy Practice for WWF International. He has significant professional experience on climate change adaptation and loss and damage issues both at the national and global level. In his current position he leads the technical and strategic development of the global adaptation program for WWF International, providing thought leadership, technical and capacity building assistance at the national and international levels.

Throughout his career he has worked mostly with developing countries in Asia, Africa, and Latin America, engaging on Ecosystem-based Adaptation and Nature-Based Solution approaches with WWF country programs in Nepal, Philippines, Pakistan, Vietnam, Myanmar, Madagascar, Kenya, South Africa, Cameron, Uganda, Namibia, Tanzania, Mozambique, Colombia, and Mexico.

## Current Affiliation

WWF International

## Education

- M.Sc. / Environmental Management / National University of Singapore
- M.Sc. / Environmental Management / Pokhara Vishwavidalaya

## Professional Experience

- 2012 / Present / Senior Advisor Global Climate Adaptation Policy, Climate and Energy Practice / WWF International, Singapore
- 2009 / 2012 / Adaptation Policy Coordinator, Global Climate and Energy Initiative / WWF International, Singapore
- 2011 / 2016 / Member, Board of Directors / Climate Action Network International (CAN-I)
- 2008 / 2009 / Senior Program Manager / WWF Nepal



# Seyni Salack

## Current Affiliation

WASCAL (West African Science Service Centre on Climate Change and Adapted Land use)

## Areas of Expertise

Disaster risk reduction and management, climate extremes, operational adaptation, agroclimatology/agrometeorology, near surface observation systems and research in climate science. Current work focuses on risks and vulnerability to climate extremes.

## Education

- PhD / University Cheikh Anta Diop, Senegal
- M.Sc. / University Cheikh Anta Diop, Senegal
- B.Tech. / Federal University of Technology Akure, Nigeria

## Professional Experience

- Regional Thematic Coordinator of research in Risks and Vulnerability to Climate Extremes / WASCAL
- Coordinator of Observation networks and Seasonal forecasting / WASCAL
- Senior scientist / Karlsruhe Institute of Technology (KIT)


## Selected Publications

- Liersch S, Drews M., Pilz T, Salack S., Sietz D., Aich V., Larsen M., A., D., Gadeke A., K Halsnæs, W Thiery, S Huang, A Lobanova, H Koch, F F Hattermann (2020) One simulation, different conclusions – the baseline period makes the difference! *Environmental Research*. Letters.
- Sultan B., Bossa A.Y., Salack S., Sanon M. (2020) Risques climatiques et agriculture en Afrique de l'Ouest. Edition of l'Institut de la Recherche pour le Development (1st Edition). 362 p.
- Salack S., Bossa A., Bलिएfnicht J., Berger S., Yira Y. et al. (2019) Designing Transnational Hydroclimatological Observation Networks and Data Sharing Policies in West Africa. *Data Science Journal*, 18: 33, pp. 1–15.
- Saley A., I., Salack S., Sanda I., S., Moussa M. Bonkaney A-L., Ly M., Fode M. (2019). The possible role of the Sahel Greenbelt on the occurrence of climate extremes over the West African Sahel. *Atmospheric Science Letters*. DOI: 10.1002/asl.927
- Salack S., Saley, A. I., Zabre, I., Zankli, L. N., & Daaku, E. K. (2018). Scales for rating heavy rainfall events in the West African Sahel. *Weather and Climate Extremes*, Volume 21, 36-42.
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- Salack S., Giannini A, Diakhate M, Gaye AT, Muller B (2014) Oceanic influence on the subseasonal to interannual timing and frequency of extreme dry spells over the West African Sahel. Climate Dynamics 42:189-201.



## Shella Biallas

 <https://www.linkedin.com/in/shellabiallas/>



Shella currently serves as the lead negotiator for the United States on matters related to adaptation with a regional focus on climate change in Africa. Previously she has worked in Somalia, focusing on economic development and stability as well as in Norway where she represented the United States on issues related to the Arctic, climate change, and health.

In addition, she has led the Department's Arctic working group and contributed to the U.S. Arctic policy and work under the Arctic Council.

Previously, she worked as a policy analyst at the U.S. Department of the Interior where she worked on ways to assess and communicate

**the importance of hard-to-value public lands and cultural and historical sites managed by the National Park Service, Bureau of Land Management, and Native American land.**



**As a representative of the Adaptation Committee, I am eager for the opportunity to provide a strong link between discussions on adaptation and resilience and work on non-economic losses. I hope to learn from my fellow NELs experts on ways to inform adaptation planning and implementation in a way that prepares countries to think about preserving and protecting their resources that can't be easily accounted for in monetary terms.**



### Current Affiliation

Lead Adaptation Negotiator, U.S. Department of State UNFCCC Adaptation Committee

### Education

- Master's / Public Administration with an emphasis on environmental management / University of Washington, Seattle
- B.A. / Sociology, Psychology, with a minor in Norwegian Language / Pacific Lutheran University

### Professional Experience

- 2020 / Present/ Adaptation Lead, Office of Global Change U.S. Department of State
- 2012/ 2020 /Foreign Service Officer: Overseas Positions covering Climate, Environment, and Economics in Norway, Mexico, and Somalia/ U.S. Department of State
- 2009/ 2012 Policy Analyst in the Office of the Secretary of the Interior/ U.S. Department of the Interior



# Sisira Madurapperuma

🐦 <https://twitter.com/SisiraMadu>  
🌐 [www.linkedin.com/in/sisira-madurapperuma](http://www.linkedin.com/in/sisira-madurapperuma)



Sisira Madurapperuma serves as the current Director of Preparedness and Resilient Recovery themes of the Asian Disaster Preparedness Center (ADPC). At ADPC, he leads designing, implementing, and managing multi-donor funded climate risk management and resilience-building programs in Asia, Africa, and the Pacific region. He also leads the Innovations and the Private Sector Engagement (PSE) portfolios and manages the “i-prepare business facility” of ADPC. He also works as a researcher at the Global Disaster Resilience Center, School of Applied Science, the University of Huddersfield, UK.

He has significant experience in the domain of disaster risk management, climate change adaptation, and sustainable development, especially in the thematic fields of risk governance, estimation of economic and non-economic costs of climate change and disaster impacts,

post-disaster damage, and loss estimation, resilient recovery, food security and overall institutional system development including policy, strategy and program formulation. He has also researched the impacts of climate change and disasters on food security and methodologies in assessing the progress of achieving SDGs in developing countries. He is an advocate and expert for translating global frameworks such as the Paris Agreement, Sendai Framework, and SDGs into local policies, strategies, plans, and programs. He also leads and provides strategic advice to the Asian Preparedness Partnership.

He also works and supports universities and higher education institutes of the region for mainstreaming resilience and climate risk management into higher education and research.



**My value addition to the work of the WIM and the community of practice is to bridge the science, policy, and practice gaps in the context of non-economic losses, climate and disaster resilience, and sustainable development. I also advocate for the coherence of global frameworks, including the Paris Agreement, SDGs, and the Sendai Framework. I'm a partnership developer, networker, and promoter for the localization of global frameworks, tools, guidelines, and approaches. My extensive knowledge and research related to food security and zero hunger related to loss of life, health, or mobility due to climate change and extreme events would be an added dimension to the non-economic losses.**



## Current Affiliation

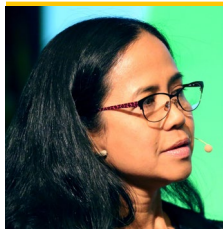
Asian Disaster Preparedness Center

## Education



- PhD / Climate Change, Resilience and Sustainable Development / The University of Huddersfield
- Master's / Environmental Economics / University of Peradeniya
- Bachelor's / Agriculture Economics / University of Peradeniya

## Professional Experience

- 2017 / Present / Director / Asian Disaster Preparedness Center (ADPC)
- 2013 / 2017 / Department Head / Asian Disaster Preparedness Center (ADPC)
- 2020 / Present / Member, EPWG of the IASC for Asia and the Pacific / United Nations
- 2015 / Present / Program Advisory Committee Member / Government of Bihar



# Verona Collantes-Lebale

 @Verona Collantes  
 Verona Collantes



Verona is a social scientist and economist by training. She currently works at the United Nations Entity for Gender Equality and the Empowerment of Women (UN Women), where she serves as the focal point for the UNFCCC, UNCCD and CBD. In this capacity, she provides technical and substantive support to governments and other stakeholders to enhance understanding of the gender dimensions of climate change, biodiversity, and desertification, land degradation and drought. Verona also worked on migration, including from the perspective of climate change, trade and development, as well as how these issues impact least developed countries.

She contributes to building knowledge, awareness and understanding through her research and the preparation of publications, submissions, background papers, guides/modules and key messages.

She organizes, facilitates and presents at workshops, expert meetings, side events, targeted to, among others, the focal points of the Rio Conventions, bringing in the gender perspectives. She has successfully worked with partners in bringing attention to and integrating gender perspectives in outcomes of intergovernmental discussions, tools and work programmes/ action plans.

Prior to UN Women, Verona worked with other UN agencies in Geneva, Switzerland. She was a Philippine Foreign Service Officer. Verona completed her Master's in International Law and Economics at the World Trade Institute in Bern, Switzerland.

## Current Affiliation

United Nations Entity for Gender Equality and the Empowerment of Women (UN Women)

## Areas of Expertise

Gender perspectives, women's voice and representation, women's rights in relation to climate change, migration, displacement, mobility, desertification, land degradation and drought, biodiversity.

## Education

- Master's / International Law and Economics / World Trade Institute in Bern, Switzerland

## Professional Experience

- 2011 / Present / Intergovernmental Specialist and focal point for UNFCCC, UNCCD and CBD / UN Women
- 2010 / 2011 / Programme Officer / UN Office of the High Representative for LDCs, LLDCs and SIDS
- 2004 / 2008 / Associate Economic Affairs Officer (focus: migration and trade) / UNCTAD

## Selected publications

- *Towards a gender-responsive implementation of the Rio Conventions: A synergistic approach* (Issues paper, UN Women, forthcoming)
- *Shaping the international agenda II: Raising women's voices in intergovernmental forums* (UN Women, 2020)
- *Women on the Move in a Changing Climate: A discussion paper on gender, climate and mobility* (Sierra Club, UN Women, 2018)
- *Towards a gender-responsive implementation of the Convention on Biological Diversity* (UN Women, 2018)
- *Shaping the international agenda: Raising women's voices in intergovernmental forums* (UN Women and International Gender Champions, 2017)

“

My value-added to the work of the WIM or the community of practice is bringing attention to gender perspectives – something that is very relevant, timely and critical, yet, in most instances, is sidelined or not considered as among the priority issues. I am an effective convenor, partnership builder/ collaborator, leader and a convincing speaker.

”

- *The Full View, second edition: Ensuring a comprehensive approach to achieve the goal of gender balance in the UNFCCC process* (UN Women and Mary Robinson Foundation-Climate Justice, 2016)
- *The Full View: Advancing the goal of gender balance in multilateral and intergovernmental processes* (UN Women and Mary Robinson Foundation-Climate Justice, 2013)
- *Investment Guide to Zambia*, (United Nations, 2011)
- *Investment Guide to Lao PDR*, (United Nations, 2010)

# TECHNICAL EXPERT GROUP ON COMPREHENSIVE RISK MANAGEMENT





With its terms of reference adopted at ExCom 7 in 2018, the Technical Expert Group on Comprehensive Risk Management (TEG-CRM) held its first meeting in 2019. TEG-CRM currently comprises 23 members, including 4 ExCom members serving as facilitators of the expert group.

The work of the TEG-CRM supports strategic workstream (c) of the current five-year rolling workplan of the ExCom, which focuses on comprehensive risk management approaches to address and build long-term resilience of countries, vulnerable populations and communities to loss and damage, including in relation to extreme and slow onset events. This strategic workstream aims to enhance knowledge and understanding of comprehensive risk management approaches, including issues related to finance, data, technology, regulatory environments and capacity-building.

Comprehensive risk management approaches include risk assessment, risk reduction, risk transfer and risk retention. Such approaches aim at building long-term resilience of countries, vulnerable populations and communities through emergency preparedness, measures to enhance recovery, rehabilitation and build back/forward better, social protection instruments, including social safety nets and transformational approaches.

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# Adelle Thomas

 @adelle\_sids  
 <https://www.linkedin.com/in/adelle-thomas-00b24629/>



Dr. Adelle Thomas is a human-environment geographer with strong leadership and project management skills, focused on climate change adaptation and loss and damage. She has over fifteen years experience of working with international organizations, governments, the private sector and civil society to develop and implement evidence-based strategies for climate change adaptation and loss and damage. She is currently a Lead Author for the IPCC Sixth Assessment Report, Working Group II focusing on adaptation, limits to adaptation and loss and damage and has also served as Lead Author for the IPCC Special Report on 1.5C and Contributing Author for the IPCC Fifth Assessment Report.

Adelle has authored a range of scientific publications focusing on adaptation planning and implementation in the small island context, loss and damage policies and mechanisms at the national scale, progression of loss and damage within the UNFCCC and global synthesis of evidence on constraints and limits to adaptation.

## Current Affiliation

Regional Lead Caribbean Science, Climate Analytics and Senior Fellow, University of The Bahamas

## Areas of Expertise

Policies and mechanisms to address loss and damage, loss and damage in small island developing states, non-economic loss and damage, particularly human mobility in the context of climate change, limits and constraints to adaptation

## Education

- PhD / Geography / Rutgers, The State University of New Jersey, USA
- M.Sc. / Geography / Rutgers, The State University of New Jersey, USA
- B.Sc. / Civil Engineering / University of Minnesota, USA
- B.A. / Individually Designed: Engineering Science / Macalester College, USA

## Professional Experience

- 2019 / 2021 / Founding Director / Climate Change Adaptation and Resilience Research Centre, University of The Bahamas
- 2018 / Present / Lead Author / Intergovernmental Panel on Climate Change Working Group 2
- 2017 / Present / Senior Research Associate / Climate Analytics
- 2012 / 2017 / Assistant Professor / University of The Bahamas

## Selected Publications

- Thomas, A., Theokritoff, E., Lesnikowski, A., Reckien, D., Jagannathan, K., Cremades, R., Compbell, D., Joe, E., Sitati, A., Singh, C., Segnon, A., Pentz, B., Musah-Surugu, J., Mulin, C., Mach, K., Gichuki, L., Galappathithi, E., Chalastani, V., Ajbade, I., Ruiz-Diaz, R., Grady, C., Garschagen, M., Ford, J., and Bowen, K. (2021) Global evidence of constraints and limits to human adaptation *Regional Environmental Change*
- Martyr-Koller, R., Thomas, A., Schleussner, C., Nauels, A. and Lissner, T. (2021) Loss and damage implications of sea level rise on Small Island Developing States. *Current Opinion in Environmental Sustainability*
- Thomas, A., Serdeczny, O. & Pringle, P. (2020) Loss and damage research needs for the global stocktake, *Nature Climate Change*
- Thomas, A., Baptiste, A., Martyr, R., Pringle, P., Rhiney, K. (2020) Climate change and small island developing states. *Annual Review of Environment and Resources*
- Thomas, A., Shooaya, O., Rokitzki, M., Bertrand, M., Lissner, T. (2019) Climate change adaptation planning in practice: Insights from the Caribbean. *Regional Environmental Change*

She has also provided scientific support and science/policy interfacing for a range of international organizations. Adelle currently serves as a member of the UNFCCC Technical Expert Group on Comprehensive Risk Management and previously served as a member of the UNFCCC Technology Executive Committee.

“

I hope that my research and practitioner experience will support the development and implementation of evidence-based policies, programmes and financial support for vulnerable countries that are already challenged by rising levels of loss and damage.

”

- Benjamin, L., Thomas, A. and Heyes, R. (2018) An ‘Islands’ COP’? Loss and damage at COP23. *Review of European, Comparative & International Environmental Law*
- Thomas, A. and Benjamin, L. (2018). Management of loss and damage in small island developing states: implications for a 1.5°C or warmer world. *Regional Environmental Change*
- Thomas, A., Schleussner, C-F, and Kumar, M. (2018) *Small island developing states and 1.5 °C*. *Regional Environmental Change*
- Thomas, A. and Benjamin, L. (2018). Policies and mechanisms to address climate-induced migration and displacement in SIDS. *International Journal of Climate Change Strategies and Management*
- Benjamin, L. and Thomas, A. (2016) *1.5°C to stay alive? AOSIS and the Long-Term Temperature Goal in the Paris Agreement* IUCNAEL



## Amir H. Delju

<https://www.linkedin.com/in/amir-h-delju-59028b35/>



I promote capacity development in climate activities by providing training on climate monitoring, use of toolkits and methods to analyze rapid and slow onset climatic phenomena.

### Current Affiliation

Senior Scientific Officer- Climate Services Branch, World Meteorological Organization (WMO)

### Areas of Expertise

Climate monitoring, data analysis, vulnerability assessment, cataloguing high impact events

### Education

- PhD / Candidate in Climatology
- M.Sc. / Climatology and Climate Sciences

I've contributed to the work of an expert team that developed the cataloguing of high-impact events. In the broader sense, I facilitate and mobilize the availability of scientific products to adaptation planning. An example is a methodology for Climate Science Basis for Action, which I have been leading between WMO and the Green Climate Fund (GCF) to ensure that adaptation projects will be evidence-based. On another note, I also promote a Quality Management System (QMS) for climate services.

“

Understanding the climate system from the past to present and into the future helps better planning for early action to reduce the losses and damages.

”

## Professional Experience

- 2019 / Present / Senior Scientific Officer- Climate Services Branch / WMO
- 2004 / 2019 / Senior Scientific Coordinator -Climate Adaptation and Prediction Branch / WMO
- 1984 / 2004 / Meteorological observation, climate expert, International climate activities / Iranian Meteorological Organization (IRIMO)

## Selected Publications

### Contributing Author/Coordinating Editor

- Guide to Climatological Practices (WMO No. 100)- 2011 (updated 2018)-
- Role of WMO and NMHSs in the implementation of the Nairobi Work Programme
- Climate Information for Adaptation and Development Needs- WMO- No. 1025
- Role of National Meteorological and Hydrological Services (NMHSs) in Adaptation to Climate Variability and Change- WMO-TD-No. 1562
- Guidelines on Quality Management in Climate Services (WMO No. 1221)
- Capacity Development for Climate Services: Guidelines for National Meteorological and Hydrological Services (WMO No.1247)

### Peer-Reviewed Papers- Author/Co-Author

- Observed Climate Variability and Change in Urmia Lake Basin, Iran, A. H. Delju, A. Ceylan, E. Piguët and M. Rebetez- Springer-Verlag (2012)
- Analysis of the Long-Term Trend of Temperature, Precipitation, and Dominant Atmospheric Phenomena in Lake Urmia, P. Ghafarian, S. Tajbakhsh, A.H. Delju- The Handbook of Environmental Chemistry book series- Springer, Berlin, Heidelberg, (2021)
- Simulation of the sea surface temperature role on precipitation intensity in lake-effect-snow over the Caspian Sea- P. Ghafarian, S. Tajbakhsh, A.H. Delju- In press (2021)
- Spatio-temporal variability of dust events in Northern Persian Gulf between 1991 and 2020, P. Ghafarian, K. Kabiri, A.H. Delju, M. Fallahi, S. Tajbakhsh- In Press (2021)
- A methodology for assessing climate services' needs: West Africa case study, V. Grasso, M. Dille, A.H. Delju, Elsevier Climate Services 2021
- Developing the Climate Science Basis for Climate Action- Joint Publication with two Annexes between WMO and the Green Climate Fund (GCF)- Authors from WMO: M. Dille, A.H. Delju, I. Gallo. Authors from GCF: P. Ousman Jarju, K. Horsburgh, U. D. Patel- In Press (2021).



# Animesh Kumar

 <https://twitter.com/animeshoo>

 <https://linkedin.com/in/animeshoo>



Expertise in disaster risk reduction with a focus on policy and coordination, and application of data and risk analysis for coherent regional and national resilience strategies and policies.

Application of integrated climate change adaptation and disaster risk reduction in concrete mechanisms like infrastructure resilience and ecosystem-based disaster risk reduction.

Technical background in risk assessments and risk profiling, food security analysis, shock-responsive social protection and watershed management.



Keen to bridge the gap and strengthen collaboration between climate change and disaster risk reduction communities, to co-benefit and co-build the appropriate and enabling policy environment for integrated and coherent implementation.



## Current Affiliation

Head of Office in Bonn, United Nations Office for Disaster Risk Reduction (UNDRR)

## Areas of Expertise

Comprehensive (climate and disaster) risk management, disaster loss and damage accounting, Sendai Framework and SDG monitoring

## Education

- PhD / Geography, Research Focus: Adaptation and sustainability in Ethiopia and India / Centre for the Study of Regional Development, Jawaharlal Nehru University (Partial course work: Michigan State University)
- MPhil / Geography, Research Focus: Watershed development and institutional economics / Centre for the Study of Regional Development, Jawaharlal Nehru University
- MA / Geography Agriculture and Regional Development / Centre for the Study of Regional Development, Jawaharlal Nehru University

## Professional Experience

- 2021 / Present / Head of Office in Bonn / UNDRR
- 2017 / 2021 / Deputy Head of Asia-Pacific / UNDRR
- 2013 / 2017 / Deputy Head of Africa / UNDRR
- 2009 / 2013 / Programme Advisor (DRR) / WFP (seconded to Govt of Ethiopia)

## Selected Publications

- Shah, A., Pattnaik, I. and Kumar, A. (2018). Changing Scenario of Migration and Poverty in India: Reflections and Issues. *Poverty, Chronic Poverty and Poverty Dynamics*, pp.127–151.
- UNDRR Asia-Pacific (2020a). *Ecosystem-Based Disaster Risk Reduction: Implementing Nature-based Solutions for Resilience*. [online]
- UNDRR Asia-Pacific (2020b). *Review of COVID-19 Disaster Risk Governance in Asia-Pacific: Towards Multi-Hazard and Multi-Sectoral Disaster Risk Reduction*. [online] [www.undrr.org](http://www.undrr.org).
- UNDRR UNESCO (2019). *Limitations and challenges of early warning systems: A case study of the 2018 Palu-Donggala Tsunami - Indonesia*. [online] ReliefWeb.
- United Nations Office for Disaster Risk Reduction – Asia-Pacific Science, Technology and Academia Advisory Group (2020). *Asia-Pacific Regional Framework for NATECH (Natural Hazards Triggering Technological Disasters) Risk Management*. [online] [www.undrr.org](http://www.undrr.org).



# Anne Hammill



Anne Hammill currently serves as the Senior Director of Resilience at the International Institute for Sustainable Development (IISD) where she focuses on understanding how better environmental management can build resilience to climate stress and contribute to peacebuilding.

Her most recent work is on developing and applying decision-support tools for climate change adaptation, undertaking participatory field research on livelihoods and climate change and building capacity of governments and civil society to integrate climate risk into policies and field projects. She has also worked with organizations in Eastern and Central Africa to better understand and address the links between conflict and conservation activities.

## Current Affiliation

International Institute for Sustainable Development

## Professional Experience

- Senior Director, Resilience / International Institute for Sustainable Development



# David Stevens

- <https://www.linkedin.com/in/resilientexpert>
- <https://www.resilient.expert/>



David Stevens was born in Brazil where he graduated first in Civil Engineering (BSc) and then Environmental Health (MSc), both at the University of São Paulo. He has worked internationally for nearly three decades, including for the World Bank and the Inter-American Development Bank, before joining the United Nations in 1999.

## Current Affiliation

Independent Expert

## Areas of Expertise

Expertise centred on climate change adaptation and disaster risk reduction ensuring alignment with local, regional and national development policies and programmes, across Asia and the Pacific, Latin America and the Caribbean and Africa, mostly in LDCs and SIDS. This includes leveraging on cutting edge technologies, virtual and technical communities, citizen science, geographic information technologies and space-based information. Professional interests encompass sustainable development, disaster risk reduction, emergency and humanitarian response, adaptation to climate change and local, regional and national development programmes.

He has led land use monitoring and alternative development projects in opium poppy and coca producing countries, implemented and managed a global programme (UN-SPIDER) that supports countries to access and use space-based information for disaster risk management (having been directly involved in supporting several major disaster events) and his last assignment with UNDRR as lead for the UNDRR Office in Bonn where he oversaw the Sendai Framework Monitoring Process, the establishment and management of Disaster Loss Databases (DLDs) and also ensuring coherence of the DRR and Climate Change Agendas.

“

Loss and Damage is the common ground for DRR and CCA, thus the focus of my area of contribution is enhancing climate-sensitive and risk-informed development, looking at future residual risks and long-term impacts of climate change and aiming at contributing to building long-term resilience.

”

### Education

- B.Sc. / Civil Engineering / Universidade de São Paulo
- M.Sc. / Environmental Health / Universidade de São Paulo
- ABD / Geography / University of Maryland – College Park

### Professional Experience



- 2021 / Present / Resilient Expert / Independent Expert
- 1999 / 2021 / Head UNDRR Bonn Office (last assignment) / United Nations Secretariat (UNODC, UNOOSA, UNGIWI, UNDRR)
- 1997 / 1999 / Urban and Regional Development Advisor / Inter-American Development Bank
- 1991 / 1996 / Research Assistant / University of Maryland – College Park

### Selected Publications

- Promoting synergy and alignment: between Climate Change Adaptation and Disaster Risk Reduction in the context of National Adaptation Plans (UNDRR 2021)
- Technical Guidance on Comprehensive Risk Assessment and Planning in the Context of Climate Change (UNDRR GIZ 2021)
- Words into Action Supplement: Developing Climate Risk-Informed National Disaster Risk Reduction Strategies (UNDRR 2021)
- UN-SPIDER Knowledge Portal <https://www.un-spider.org/>
- Sendai Framework Monitor <https://sendaimonitor.undrr.org/>



# Ekhosuehi Iyahen

 @eiyahen  
 Ekhosuehi Iyahen

## Current Affiliation

Insurance Development Forum (IDF)

## Areas of Expertise

Comprehensive disaster risk management, disaster risk financing, risk analytics, risk transfer, insurance, public private partnerships, climate adaptation

## Education

- M.Sc. / Environmental Policy & Regulation / London School of Economics & Political Science
- Executive Education / Public Financial Management / Harvard Kennedy School
- B.A. / Geography & Geology / University of the West Indies

## Professional Experience

- 2018 / Present / Secretary General / Insurance Development Forum
- 2014 / 2018 / Director / Policy & Technical Advisory Services, African Risk Capacity
- 2009 / 2014 / Vice President / Facility Supervisor, Caribbean Catastrophe Risk Insurance Facility
- 2021 / Present / Senior Fellow / Atlantic Council's Adrienne Arsht-Rockefeller Foundation Resilience Centre
- 2020 / Present / High Level Advisory Group / OECD High-Level Advisory Group (HLAG) on Loss and Damage from Climate Change
- 2019 / Present / Member of the Advisory Board/ SOAS Centre for Sustainable Finance
- 2018 / Present / Member of the Experts Advisory Group / Centre for Disaster Protection
- 2018 / 2018 Resident Practitioner Fellow / 2018 Rockefeller Foundation Resident Practitioner Fellow at the Bellagio Centre

## Selected Publications

- ARC (2017). *Lessons Learned: Implementation of a Sovereign Risk Management and Insurance Mechanism*. [online].
- IDF (2019). *IDF Practical Guide to Insuring Public Assets | A IDF Practical Guide to Insuring Public Assets Acknowledgements*. [online].
- IDF (2020). *Development Impact of Risk Analytics | 1 The Development Impact of Risk Analytics*. [online].

- Iyahen, E. (2014). Managing Risks from Climate Change on the African Continent: The African Risk Capacity (ARC) as an Innovative Risk Financing Mechanism. *Resilience: The Science of Adaptation to Climate Change*. [online].
- Iyahen, E. and Widge, V. (2020). *Insuring Systemic Resilience: Mobilising public-private insurance action to deliver pandemic and climate resilience*. [online] CPI.
- Jarzabkowski, P., Chalkias, K., Clarke, D., Iyahen, E., Stadtmueller, D. and Zwick, A. (2019). *Insurance for Climate Adaptation: Opportunities and Limitations*. [online].
- Leaders Magazien (2020). *LEADERS Magazine October, November, December 2020 Volume 43, Number 4 Resilience Reprint*. [online] Issuu.



## Fatima Driouech



Fatima Driouech currently works as associate professor at the University Mohammed VI Polytechnic (Morocco). She previously served as the Head of the Meteorological Research Center of the Moroccan Meteorology as well as the Head of the National Climate Centre.

She is the Vice-Chair of Working Group I of the IPCC and was the lead author of the fifth IPCC report. She is also VI-Chair of the Standing Committee on Climate Services of the World Meteorological Organization.

Fatima also participates in various regional activities. She is serving as one of the MedECC (Mediterranean Experts on climate and environmental change network) coordinator. She participated in the Mediterranean Forum Management Committee of seasonal forecasting (Medcof) and has been involved in training and capacity building as a teacher in different Moroccan educational institutions on climatology and climate change. She has also led and participated in several studies and projects linked to climate change and climate services in Morocco, Africa and MENA region.

### Current Affiliation

University Mohammed VI Polytechnic, Morocco

### Education

- PhD in sciences of the universe, environment and land surfaces / Polytechnic Institute of Toulouse/ University Paul
- Engineering / National School of Meteorology in Toulouse

### Professional Experience

- Scientific responsible of climate modeling / University Mohammed VI Polytechnic (Morocco)
- Head of the National Climate Centre
- Head / Meteorological Research Center of the Moroccan Meteorology
- Head of the climate studies department/ Moroccan Meteorological Directorate



## Selected Publications

- Donat, M. G., Peterson, T. C., Brunet, M., King, A. D.,almazroui, M., Kolli, R. K., Boucherf, D., Al-Mulla, A. Y., Nour, A. Y., Aly, A. A., Nada, T. A. A., Semawi, M. M., Al Dashti, H. A., Salhab, T. G., El Fadli, K. I., Muftah, M. K., Dah Eida, S., Badi, W., Driouech, F., El Rhaz, K., Abubaker, M. J. Y., Ghulam, A. S., Erayah, A. S., Mansour, M. B., Alabdouli, W. O., Al Dhanhani, J. S. and Al Shekaili, M. N. (2014). Changes in extreme temperature and precipitation in the Arab region: long-term trends and variability related to ENSO and NAO. *Int. J. Climatol.*, 34: 581–592. doi: 10.1002/joc.3707.
- Jarlan L., Driouech F., Tourre Y., Duchemin Benoît, Bouyssié M., Abaoui J., Ouldabba, A., Mokssit A., Chehbouni Abdelghani (2014). Spatio-temporal variability of vegetation cover over Morocco (1982-2008): linkages with large scale climate and predictability. *Int. J. Climatol.*, 34 (4), p. 1245-1261. ISSN0899-8418
- M. N. Legasa, R. Manzanar, J. Fernández, S. Herrera, M. Iturbide, W. Moufouma Okia P. Zhai, F. Driouech, J. M. Gutiérrez (2020). Assessing Multidomain Overlaps and Grand Ensemble Generation in CORDEX Regional Projections. *Geoph. Res. Letters*
- Driouech F., Stafi H., Khouakhi A., Moutia S., Badi B., ElRhaz K., Chehbouni A. (2020). Recent observed country-wide climate trends in Morocco. *International Journal of Climatology*. DOI: 10.1002/joc.6734
- Driouech F., K. ElRhaz, W. Moufouma Okia, K. Arjidal, S. Balhane (2020) Assessing Future Changes of Climate Extreme Events in the CORDEX MENA Region Using Regional Climate Model ALADIN Climate. *Earth Systems and Environment*
- G. Zittis, P.Hadjinicolaou, M.Almazroui, E.Bucchignani, F. Driouech, K. El Rhaz, L. Kurnaz, G.Nikulin, A. Ntoumos, T. Ozturk, Y. Proestos, G. Stenchikov, R. Zaaboul, J. Lelieveld (2021). Business-as-usual will lead to super and ultra-extreme heatwaves in the Middle East and North Africa. *NPJCLIMATSCI*.
- Balhane, S., Driouech, F., Chafki, O. et al. Changes in mean and extreme temperature and precipitation events from different weighted multi-model ensembles over the northern half of Morocco. *Clim Dyn* (2021).
- Epule TE, Chehbouni A, Dhiba D, Etongo D, Driouech F, Brouziyne Y, et al. (2021) Vulnerability of maize, millet, and rice yields to growing season precipitation and socio-economic proxies in Cameroon. *PLoS ONE* 16(6): e0252335
- Purevjav, G., Balling, R. C., Cerveny, R. S., Allan, R., Compo, G. P., Jones, P., Peterson, T. C., Brunet, M., Driouech, F., Stella, J. L., Svoma, B. M., Krahenbuhl, D., Vose, R. S. and Yin, X., 2015.: The Tosontsengel Mongolia world record sea-level pressure extreme: spatial analysis of elevation bias in adjustment-to-sea-level pressures. *Int. J. Climatol*.DOI: 10.1002/joc.4186
- Merlone A., Al-Dashti H. Faisal N., Cerveny R.S., AlSarmi S., Bessemoulin P. Brunet M., Driouech, F., Khalatyan Y., Peterson T. C., Rahimzadeh F., Trewin B., Abdel Wahab M. M., Yagan S., Coppa G., Smorgon D., Musacchio C., Krahenbuhl D (2019) Temperature extreme records: World Meteorological Organization metrological and meteorological evaluation of the 54.0C observations in Mitribah, Kuwait and Turbat, Pakistan in 2016/2017. *International Journal of Climatology*. DOI: 10.1002/joc.6132



# Gernot Laganda

## Current Affiliation

United Nations World Food Programme (WFP)

## Areas of Expertise

Humanitarian action in a changing climate; climate risk financing; climate risk insurance; forecast-based financing and anticipatory action; climate information services; sustainable energy solutions in food systems; ecosystem-based adaptation

## Education

- M.Eng. / Applied Geosciences / University of Leoben (with distinction)
- M.A. / Public Policy and Management / University of York/ Pennsylvania State University (with distinction)
- Greenberg World Fellow in Global Affairs / Yale University

## Professional Experience


- 2017 / Present / Director of Climate and Disaster Risk Reduction Programmes / WFP
- 2012 / 2017 / Lead Technical Specialist on Climate and Environment / IFAD
- 2007 / 2012 / Regional Technical Advisor for Climate Change Adaptation / UNDP

## Selected Publications

- Läderach, P. and Laganda, G. (2020). *De-risking Livelihoods in Climate and Conflict hotspots: the Need to Align Humanitarian and Development Objectives and Finance*. [online] [ccafs.cgiar.org](https://ccafs.cgiar.org).
- Laganda, G. (2017). *Building Smallholder Farmers' Resilience under Climate Change through Value Chain Management Policy Dimension*. [online].
- Laganda, G. (2020a). *A vaccine may come for coronavirus — but there isn't one for climate change | World Food Programme*. [online] [www.wfp.org](https://www.wfp.org).
- Laganda, G. (2020b). *Why Climate Action Matters for Governments Battling COVID-19*. [online] [news.trust.org](https://news.trust.org).
- Wright, H., Vermeulen, S., Laganda, G., Olupot, M., Ampaire, E. and Jat, M.L. (2014). Farmers, food and climate change: ensuring community-based adaptation is mainstreamed into agricultural programmes. *Climate and Development*, 6(4), pp.318–328.



# Harjeet Singh

 @harjeet11

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Harjeet Singh is a global expert on the issues of climate impacts, migration and adaptation and currently acts as the Strategic Advisor for Global Partnerships to the Fossil Fuel Non-Proliferation Treaty Initiative. He has been supporting countries across the world on tackling climate change and until recently led ActionAid International's climate change global work. He is a member of the Technical Expert Group on Comprehensive Risk Management (TEG-CRM) under Warsaw International Mechanism for Loss and Damage.

He has also served as a board member of Climate Action Network International (CAN-I) and the Global Network of Civil Society Organisations for Disaster Reduction (GNDR).

In addition, Harjeet has co-founded Satat Sampada, a social enterprise that promotes sustainable and environmental solutions such as organic food and farming in India and beyond.



I would like to contribute to the overall work of the WIM on loss and damage and in particular on the issues of social protection, finance, risk management and displacement.



## Current Affiliation

Climate Action Network

## Areas of Expertise

Social Protection, displacement and migration, emergency response and rehabilitation, disaster risk management, loss and damage finance

## Education

- Master of Business Administration (MBA) in Marketing / Institute of Rural Management (IIRM)

## Professional Experience

- 2021 / Present / Senior Advisor - Climate Impacts / Climate Action Network
- 2015 /2021 / Global Lead on Climate Change / ActionAid International
- 2002 / 2015 / Various positions/ ActionAid India and International



# Linda Ann Siegele

## Education

- PhD candidate / Legal Research / University College London
- LLM / University College London
- JD / University of Denver, Denver, Colorado
- MS in Accounting / Northeastern University, Boston, Massachusetts
- MBA / Cornell University, Ithaca, New York

## Professional Experience

- Legal Consultant and Trainer / Independent
- 2005 / 2010 / Staff Lawyer / Foundation for International Environmental Law and Development (FIELD)

## Selected Publications

- Contributing author, Research Handbook on International, National, and Transnational Responses to Loss & Damage (Edward Elgar, forthcoming)
- Co-editor, with Mdp Bueno Rubial, Negotiating Climate Change Adaptation - The Common Position of the Group of 77 and China (Springer 2020)
- Contributor, Guide to the Paris Agreement, Anju Sharma, ed., (ecbi, March 2020)
- With F Lesniewska, The Talanoa Dialogue: A Crucible to Spur Ambitious Global Climate Action to Stay within the 1.5C Limit, Carbon and Climate Law Review Volume 12, Issue 1, pp. 41 – 49
- Chapter 13: Loss and Damage (Article 8) in The Paris Agreement on Climate Change, D Klein et al, eds (OUP 2017)
- Loss and damage: the theme of slow onset impacts, Germanwatch policy briefing, August 2012
- Book review, Property and the Law in Energy and Natural Resources. Edited by Aileen McHarg, Barry Barton, Adrian Bradbrook and Lee Godden, Journal of Environmental Law Volume 23, Issue 3, pp. 535- 537
- Adaptation under the Copenhagen Accord, FIELD Briefing Note, London, February 2010
- With D Roe, et al, Conservation and human rights – Who says what?: A review of international law and policy, in Rights-based approaches: Exploring issues and opportunities for conservation, J Campese, et al. eds, (CIFOR and IUCN, 2009)
- With E Wilson, et al, Taking control: How citizens can hold industry to account, IIED Briefing Paper, London, January 2009



## Litea Biukoto

 @kaihzo



Litea Biukoto currently serves as Team Leader for Disaster Risk at the Pacific Community (SPC). She is an expert with more than 15 years of experience working on disaster risk reduction in the Pacific region.

### Current Affiliation

Team Leader Disaster Risk, Geoscience, Energy and Maritime Division, Pacific Community

### Education

- PGDip / marine science / University of the South Pacific
- Bachelor of Science / Neuroscience / University of Otago

### Professional Experience

- 2019 / Present / Team Leader Disaster Risk / Pacific Community
- 2016 / 2019 / Pacific Resilience Programme – Programme Manager / Pacific Community
- 2011 / 2016 / Senior Advisor Risk Reduction / Pacific Community



## Maarten van Aalst



Maarten van Aalst is Director of the international Red Cross Red Crescent Climate Centre and the Princess Margriet Chair in Climate and Disaster Resilience at ITC, University of Twente. He is the Coordinating Lead Author for the Intergovernmental Panel on Climate Change (WGII chapter 16 on key risks).

### Current Affiliation

International Red Cross Red Crescent Climate Centre  
ITC, University of Twente

### Areas of Expertise

Climate and disaster risk management, including in the context of humanitarian operations and development planning; anticipatory action, including forecast-based financing; extreme event attribution; Sendai Framework and SDGs monitoring

### Education

- PhD in Climate Research / Universiteit Utrecht (Netherlands) and Max Planck Institute for Chemistry (Germany)
- M.Sc. in Astrophysics / Utrecht University

### Professional Experience

- Director / International Red Cross Red Crescent Climate Centre
- Professor Climate and Disaster Resilience / ITC, University of Twente
- Adjoint Senior Research Scientist / International Research Institute for Climate and Society, Columbia University
- Coordinating Lead Author, IPCC WGII AR6 chapter 16 “key risks”

He is an impact-driven scientist and a humanitarian working to increase resilience in the face of rising climate risks, especially among the most vulnerable, with over 20 years of experience bridging science, policy and practice, from local to global.

## Selected Publications

- Berrang-Ford, L., Lesnikowski, A., Fischer, AP, Siders, A., Mach, KJ., Thomas, A., Callaghan, M., Haddaway, N., Kerr, RB., Biesbroek, R., Bowen, K., Deryng, D., Elliott, S., Ford, J. D., Garschagen, M., Gilmore, E., Harper, S., Hassnoot, M., Lissner, T., ... van Aalst, M. (2021). The global adaptation mapping initiative (GAMI): Part 1 – Introduction and overview of methods. *Protocol Exchange*, 1-7. <https://doi.org/10.21203/rs.3.pev-1240/v1>
- Fischer, AP, Callaghan, M., Berrang-Ford, L., Nielsen, M., Sotnik, G., Canosa, IV, Villaverde Canosa, I., Haddaway, N., Biesbroek, R., Harper, S., Minx, J., ECD, P., Reckien, D., & van Aalst, M. (2021). The global adaptation mapping initiative (GAMI): Part 2 – Screening protocol. *Protocol Exchange*, 1-13. <https://doi.org/10.21203/rs.3.pev-1241/v1>
- Van Oldenborgh, G. J., Hendon, H., Stockdale, T., L'Heureux, M., Coughlan De Perez, E., Singh, R., & Van Aalst, M. (2021). Defining El Niño indices in a warming climate. *Environmental research letters*, 16(4), 1-10. <https://doi.org/10.1088/1748-9326/abe9ed>
- Simpson, N. P., Mach, K. J., Constable, A., Hess, J., Hogarth, R., Howden, M., Lawrence, J., Lempert, R. J., Muccione, V., Mackey, B., New, M. G., O'Neill, B., Otto, F., Pörtner, H-O., Reisinger, A., Roberts, D., Schmidt, D. N., Seneviratne, S., Strongin, S., ... Trisos, C. H. (2021). A framework for complex climate change risk assessment. *One earth*, 4(4), 489-501. <https://doi.org/10.1016/j.oneear.2021.03.005>
- van Oldenborgh, G. J., van der Wiel, K., Kew, S., Philip, S., Otto, F., Vautard, R., King, A., Lott, F., Arrighi, J., Singh, R., & van Aalst, M. (2021). Pathways and pitfalls in extreme event attribution. *Climatic change*, 166, 1-27. <https://doi.org/10.1007/s10584-021-03071-7>
- Jan Van Oldenborgh, G., Kriken, F., Lewis, S., Leach, N. J., Lehner, F., Saunders, K. R., Van Weele, M., Hausteine, K., Li, S., Wallom, D., Sparrow, S., Arrighi, J., Singh, R. K., Van Aalst, M. K., Philip, S. Y., Vautard, R., & Otto, F. E. L. (2021). Attribution of the Australian bushfire risk to anthropogenic climate change. *Natural hazards and earth system sciences*, 21(3), 941-960. <https://doi.org/10.5194/nhess-21-941-2021>
- Zommers, Z., Marbaix, P., Fischlin, A., Ibrahim, Z. Z., Grant, S., Magnan, A. K., Pörtner, H., Howden, M., Calvin, K., Warner, K., Thiery, W., Sebesvari, Z., Davin, E. L., Evans, J. P., Rosenzweig, C., O'Neill, B. C., Patwardhan, A., Warren, R., Van Aalst, M., & Hulbert, M. (2020). Burning embers: towards more transparent and robust climate-change risk assessments. *Nature Reviews Earth & Environment*, 1(10), 516-529. <https://doi.org/10.1038/s43017-020-0088-0>
- Vautard, R., Van Aalst, M., Boucher, O., Drouin, A., Hausteine, K., Kreienkamp, F., Van Oldenborgh, G. J., Otto, F. E. L., Ribes, A., Robin, Y., Schneider, M., Soubeyroux, J. M., Stott, P., Seneviratne, S. I., Vogel, M. M., & Wehner, M. (2020). Human contribution to the record-breaking June and July 2019 heatwaves in Western Europe. *Environmental research letters*, 15(9), 1-9. <https://doi.org/10.1088/1748-9326/aba3d4>
- Philip, S., Kew, S., van Oldenborgh, G. J., Otto, F., Vautard, R., van der Wiel, K., King, A., Lott, F., Arrighi, J., Singh, R., & van Aalst, M. (2020). A protocol for probabilistic extreme event attribution analyses. *Advances in Statistical Climatology, Meteorology and Oceanography*, 6(2), 177-203. <https://doi.org/10.5194/ascmo-6-177-2020>
- Jia, P., Wang, T., Van Vliet, A. J. H., Skidmore, A. K., & van Aalst, M. K. (2020). Worsening of tree-related public health issues under climate change. *Nature Plants*, 6(48), 48-48. <https://doi.org/10.1038/s41477-020-0598-2>, <https://doi.org/10.1038/s41477-020-0598-2>



# Rebecca Nadin



Rebecca Nadin is the Director for the Global Risks and Resilience programme at the Overseas Development Institute (ODI) where she leads a multi-disciplinary team of analysts to pioneer policy-driven research on emerging risk vectors and resulting opportunities to reduce vulnerability, build resilience and drive transformative and sustainable change.

She has more than 15 years of experience working with government and consultancies in China and Asia. Before joining ODI, Rebecca served as the Director of the Adapting to Climate Change in China Project (ACCC Phase I and II), which was the largest climate risk policy project of its kind in China. Previously, she also served as the Deputy Director of the British Council's Global Sustainability Programme, leading its roll out in 60 countries.

She is the founder of PLAN8 Risk Consulting, a start-up that specializes in helping clients manage climate and political risk and provides a platform to women in the field of science and social science to showcase their leadership potential, and an adjunct lecturer at the Centre for Environment and Population Health at Griffith University in Australia.

## Current Affiliation

Overseas Development Institute

## Education

- PhD in Chinese foreign policy in Central Asia / The University of Sheffield
- M.A. / International Relations / University of Sheffield
- B.A. / Politics / University of Sheffield

## Professional Experience

- Director of Programme – Global Risks and Resilience / Overseas Development Institute



# Reinhard Mechler

@reinhardmechler



Reinhard Mechler has more than 20 years of experience with analysing and addressing socio-economic aspects of disaster and climate change risks. His interest is to provide evidence-based advice to a wide range of public and private sector stakeholders in order to improve resilience-focussed decision-making for disaster, climate and other risks.

## Current Affiliation

International Institute for Applied Systems Analysis (IIASA)

## Areas of Expertise

Socio-economics of natural disaster risk management and climate adaptation, climate risk and resilience analysis, risk management and climate change policy and governance

## Education

- Habilitation / Socio-Economics / University of Economics and Business, Vienna, Austria
- Doctorate / Economics / University of Karlsruhe, Germany
- Diploma / Economics / University of Heidelberg, Germany

As the head of the 'Systemic Risk and Resilience' Group at the International Institute for Applied Systems Analysis (IIASA), he currently leads a team of about 20 economists, political scientists, geographers, GIS experts, sociologists and mathematicians. He has been acting as a visiting professor at the University of Graz, as well as a senior lecturer at the University for Economics and Business in Vienna. Dr Mechler has been leading and contributing to many international research and consultancy projects and is currently leading research for the Flood Resilience Alliance, which brings together researchers, international NGOs and the private sector to build disaster and climate resilience across the globe. He acted as a lead author on IPCC's special report on adaptation to extreme events (SREX), the 5th assessment report and the report on 1.5 °C global warming, and is currently a lead author on IPCC's 6th assessment report.

“

I hope to further contribute to enhanced understanding of the role of climate risk analysis, management and governance for the Loss & Damage dialogue and the work by the WIM. My interest is to provide evidence-based advice to practice and policy.

”

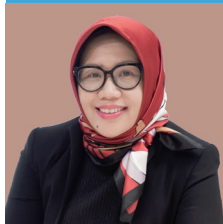
## Professional Experience

- 2021 / Present / Lead 'Systemic Risk and Resilience' research group / IIASA, Laxenburg
- 2009 / Present / Senior Associate / Vienna University of Economics & Business, Vienna
- 2015 / 2017 / Visiting Professor / Karl-Franzens-University, Graz



## Selected Publications

- Mechler, R. and Deubelli, T. (2021). Finance for Loss and Damage: a comprehensive risk analytical approach. *Current Opinion in Environmental Sustainability* 50, 185-196
- Desai, B., Bresch, D.N., Cazabat, C., Hochrainer-Stigler, S., Mechler, R., Ponserre, S., & Schewe, J. (2021). Addressing the human cost in a changing climate. *Science* 10.1126 .1287-1284 .(6548) 372/science.abh4283
- Deubelli, T.M. & Mechler, R. (2021). Perspectives on transformational change in climate risk management and adaptation. *Environmental Research Letters* 16, e053002. 10.1088/1748-9326/abd42d.
- Mechler, R., Singh, C., Ebi, K., Djalante, R., Thomas, A., James, R., Tschakert, P., Wewerinke-Singh, M., Schinko, T., Ley, D., Nalau, J., Bouwer, L.M., Huggel, C., Huq, S., Linnerooth-Bayer, J., Surminski, S., Pinho, P., Jones, R., Boyd, E., Revi, A. (2020). Loss and Damage and limits to adaptation: recent IPCC insights and implications for climate science and policy. *Sustainability Science* 15, 1245-1251
- Huggel, C., Muccione, V., Carey, M., James, R., Jurt, C., & Mechler, R. (2019). Loss and Damage in the mountain cryosphere. *Regional Environmental Change* 19 1399-1387 :(5). DOI:10.1007/s10113-018-1385-8.
- de Coninck, H. Revi, A., Babiker, M., Bertoldi, P., Buckridge, M., Cartwright, A., Dong, W., Ford, J., Fuss, S., Hourcade, J.-C., Ley, D., Mechler, R., Newman, P., Revokatova, A., Schultz, S., Steg, L., Sugiyama, T. (2018). Chapter 4: Strengthening and implementing the global response. In: IPCC (2018). *Global Warming of 1.5°C*. In Press
- Mechler R, Bouwer L, Schinko T, Surminski S, Linnerooth-Bayer J (eds) (2018). *Loss and Damage*
- from *Climate Change. Concepts, Methods and Policy Options*. Springer: Cham.
- Mechler, R. (2017). Climate policy: Transparency for Loss and Damage. *Nature Climate Change* 7, 687-688
- Mechler, R. and T. Schinko (2016). Identifying the policy space for climate loss and damage. *Science* 354 (6310): 290-292.
- Mechler, R. Bouwer, L., Linnerooth-Bayer, J., Hochrainer-Stigler, S., Aerts, J., Surminski, S. (2014). Managing unnatural disaster risk from climate extremes. *Nature Climate Change* 4: 235-237





# Riyanti Djalante

-  <https://twitter.com/RDjalante>
-  <https://www.linkedin.com/in/riyanti-djalante/>
- <https://scholar.google.com/citations?user=3WdneykAAAAJ&hl=en>



**Riyanti Djalante** has over 15 years of scientific research and international professional experience in the field of development, governance, disaster risk reduction, climate change adaptation, resilience and vulnerability. She has published 3 books and over 50 journal articles and book chapters. Riyanti is working with the ASEAN Secretariat, based in Indonesia, as Assistant Director/head of Disaster Management and Humanitarian Assistance Division, working closely with the ASEAN Committee on Disaster Management, to support the implementation of the ASEAN Agreement on Disaster Management Work Programme. Previously she has worked as Academic Programme Officer at United Nations University-Institute for the Advanced Study for Sustainability (UNU-IAS), coordinating Research and Policy Development stream on Global Change and Resilience. She supports policy relevant actions for the SDGs, the Sendai Framework, and the Paris Agreement.

## Current Affiliation

ASEAN Secretariat

## Areas of Expertise

Disaster risk reduction, climate change adaptation, loss and damage, governance, Asia

## Education

- PhD / Macquarie University, Australia
- MPM / Master of Project Management / The University of Queensland, Australia
- B.Eng. / Bachelor of Engineering / The University of New South Wales

## Professional Experience

- 2020 / Present / Assistant Director, Disaster Management and Humanitarian Assistant Division / ASEAN Secretariat, Indonesia
- 2017 / 2020 / Academic Programme Officer / United Nations University – Institute for the Advanced Science in Sustainability, Japan
- 2015 / 2017 / Research Associate / United Nations University – Institute for Environment and Human Security, Germany
- 2001 / 2015 / Government Officer / Government of Indonesia

## Selected Publications

- Hoegh-Guldberg, O., Jacob, D., Bindi, M., Brown, S., Camilloni, I., Diedhiou, A., Djalante, R., Ebi, K., Engelbrecht, F., Guiot, J. and Hijioka, Y., 2018. Impacts of 1.5 C global warming on natural and human systems. *Global warming of 1.5 C. An IPCC Special Report*.
- Hoegh-Guldberg, O., Jacob, D., Taylor, M., Bolaños, T.G., Bindi, M., Brown, S., Camilloni, I.A., Diedhiou, A., Djalante, R., Ebi, K. and Engelbrecht, F., 2019. The human imperative of stabilizing global climate change at 1.5 C. *Science*, 365(6459).
- Djalante, R., Holley, C. and Thomalla, F., 2011. Adaptive governance and managing resilience to natural hazards. *International Journal of Disaster Risk Science*, 2(4), pp.1-14.
- Djalante, R., Holley, C., Thomalla, F. and Carnegie, M., 2013. Pathways for adaptive and integrated disaster resilience. *Natural Hazards*, 69(3), pp.2105-2135.

She has worked closely with UNDRR, UNESCAP, UNEP and UN-HABITAT.

Her current appointments include lead author of the IPCC Assessment Report 6, Working Group II and the Special Report on impacts of 1.5 global warming, chair of the Scientific Committee of the IRDR, fellow of the Earth System Governance Network, Social Science Fellow of the International Council for Science. She is the editor of the *Progress in Disaster Science Journal* and guest editor of the Special Issue on Slow Onset Events related to Climate Change at the *Current Opinion in Environmental Sustainability Journal*. She worked for the government in Indonesia cumulatively for 7 years, involved in development planning and implementation. She has consulted for internationally funded projects on issues related to governance, DRR and CCA in Indonesia/South East Asia.

- Djalante, R., Shaw, R. and DeWit, A., 2020. Building resilience against biological hazards and pandemics: COVID-19 and its implications for the Sendai Framework. *Progress in Disaster Science*, 6, p.100080.
- Djalante, R., 2012. "Adaptive governance and resilience: the role of multi-stakeholder platforms in disaster risk reduction". *Natural Hazards and Earth System Sciences*, 12(9), pp.2923-2942.
- Birkmann, J., Jamshed, A., McMillan, J.M., Feldmeyer, D., Totin, E., Solecki, W., Ibrahim, Z.Z., Roberts, D., Kerr, R.B., Poertner, H.O. and Pelling, M., 2022. Understanding human vulnerability to climate change: A global perspective on index validation for adaptation planning. *Science of The Total Environment*, 803, p.150065.
- Leal Filho, W., Stringer, L.C., Totin, E., Djalante, R., Pinho, P., Mach, K.J., Carril, L.R.F., Birkmann, J., Pandey, R. and Wolf, F., 2021. Whose voices, whose choices? Pursuing climate resilient trajectories for the poor. *Environmental Science & Policy*, 121, pp.18-23.
- Mechler, R., Singh, C., Ebi, K., Djalante, R., Thomas, A., James, R., Tschakert, P., Wewerinke-Singh, M., Schinko, T., Ley, D. and Nalau, J., 2020. Loss and Damage and limits to adaptation: recent IPCC insights and implications for climate science and policy. *Sustainability Science*, 15(4), pp.1245-1251.
- Djalante, R. and Siebenhüner, B. eds., 2021. *Adaptiveness: Changing Earth System Governance*. Cambridge University Press.



# Sheri Lim



Sheri Lim is an international environmental professional specializing in climate change adaptation, natural resource management, disaster risk reduction and resilience in fragile and conflict affected states. She currently serves as the Lead Advisor for Gender, Resilience and Climate Change for CARE International, where she provides technical support and capacity-building on CARE's climate change, disaster management and resilience programming and overseeing related research.

She was one of the founding representatives of the START Network FOREWARN group on forecast-based early action, and involved as a civil society representative for the InsuResilience Global Partnership. Prior to joining CARE International she has worked with various agencies and governments developing national climate change adaptation plans and legislation, supported community and grassroots levels on natural resource management and disaster preparedness programming, and helped develop and deliver climate change and resilience training for universities and civil society.

## Current Affiliation

CARE International UK

## Areas of Expertise

Community-based climate change adaptation, natural resource management, forecast-based early action / anticipatory action, and resilience in fragile and conflict affected states

## Education


- M.Phil / Environmental Management / University of Cape Town
- B.Sc. / International Development and Environmental Science / University of Toronto


## Professional Experience

- Lead Advisor – Gender, Resilience and Climate Change / CARE International UK



# Sönke Kreft

 @soekreft

 <https://www.linkedin.com/company/munich-climate-insurance-initiative>

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## Current Affiliation

Head of Unit / Executive Director: United Nations University – Institute for Environment and Human Security / Munich Climate Insurance Initiative

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## Areas of Expertise

Climate risk insurance, climate risk management, risk governance, financial protection approaches, adaptive social protection

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## Education

- M.Sc. / Global Change Management / University of Sustainability, Eberswalde, Germany
- B.Sc. / Natural Resource Management / University of Goettingen, Germany

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## Professional Experience

- Associate Academic Officer / Environmental Migration, Social Vulnerability and Adaptation / UNU-EHS
- Teamleader / International Climate Policy / Germanwatch
- Senior Advisor / Adaptation and Insurance / Germanwatch

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## Selected Publications

- Kreft et al. (forthcoming). Climate Risk Insurance – Potential as a strategic adaptation instrument in Germany. *UBA Climate Change*
- InsuResilience (2020). Integrating Risk Finance into National Resilience and Adaptation Efforts. *InsuResilience Policy Note*
- Kreft and Kohler (2019). Climate Risk Insurance: From Policy to Practice. *HSG Trendmonitor*
- Kreft et al. (2017). Climate Risk Insurance for Resilience: Assessing Countries' Implementation Plans. *MCI Policy paper*
- Kreft et al. (2013, 2014, 2015, 2016). Global Climate Index. *Germanwatch Briefing Paper*



# Stefan Rösner

🐦 [https://twitter.com/DWD\\_klima](https://twitter.com/DWD_klima)

“

National Meteorological and Hydrological Services (NMHSs) play an important role in providing sustained services to users that underpin work of WIM. Making WIM aware which activities are already being taking place and what else is planned from a practitioner's perspective would be my contribution, together with a strong link to the United Nations World Meteorological Organization (WMO).

”

## Current Affiliation

Deutscher Wetterdienst (DWD)

## Areas of Expertise

Climate monitoring, systematic observation, coordinator of WMO Regional Association VI (Europe) Regional Climate Centre (RCC) Network

## Education

- Diplom / Meteorologist / University of Mainz, Germany

## Professional Experience

- 2013 / Head / Division Regional Climate Monitoring
- 1992 / Scientist / DWD

## Selected Publications

- Bissolli, P., Cacic, I., Mächel, H. and Rösner, S. (2016). Climate risk early warning systems in Europe. *The Journal of the World Meteorological Organization*, 65(1).
- Bissolli, P., Mächel, H., Körber, M., Kreis, A., Mamtimin, B. and Rösner, S. (2020). The WMO Regional Climate Centre – Provider of Climate Services for National Meteorological and Hydrological Services in Europe. *Meteorologische Zeitschrift*.
- Hama, A.M., Körber, M., Rösner, S., Appenzeller, C., Becker, P., Binder, P., Croci-Maspoli, M., Schreiber, K.-J. and Zubler, E. (2017). Implementing GFCS: Swiss and German National Showcases. *The Journal of the World Meteorological Organization*, [online]
- Karl, T.R., Diamond, H.J., Bojinski, S., Butler, J.H., Dolman, H., Haerberli, W., Harrison, D.E., Nyong, A., Rösner, S., Seiz, G., Trenberth, K., Westermeyer, W. and Zillman, J. (2010). Observation Needs for Climate Information, Prediction and Application: Capabilities of Existing and Future Observing Systems. *Procedia Environmental Sciences*, 1, pp.192–205.
- Manton, M.J., Belward, A., Harrison, D.E., Kuhn, A., Lefale, P., Rösner, S., Simmons, A., Westermeyer, W. and Zillman, J. (2010). Observation Needs for Climate Services and Research. *Procedia Environmental Sciences*, 1, pp.184–191.
- Rösner, S. (2012). The WMO RA VI Regional Climate Centre Network - a Support to Users in Europe. *Geophysical Research Abstracts*, [online] 14(). EGU2012-2588-1, 2012. EGU General Assembly 2012.



# Victor Cardenas

## Current Affiliation

Independent Member and University Professor, Universidad Panamericana

## Areas of Expertise

Catastrophe and climate change risk financing

## Education

- Master's / Finance
- B.A. / Economics

## Professional Experience

- Senior Consultant / the World Bank & Inter-American Development Bank

## Selected Publications

- Cardenas et al. (2020). Public Investment Profile for Disaster Risk Reduction: A Macro-Economic Study. *Inter-American Development Bank Technical Note, IDB-TN 1889*.
- Frisari, G.L., Gallardo, M., Nakano, C., Cárdenas, V. and Monnin, P. (2019). *Climate Risk and Financial Systems of Latin America: Regulatory, Supervisory and Industry Practices in the Region and beyond*. Inter-American Development Bank. IDB-TN-01823.
- Murphy, A.G., Hartell, J., Cárdenas, V. and Skees, J.R. (2012). *Risk Management Instruments for Food Price Volatility and Weather Risk in Latin America and the Caribbean: the Use of Risk Management Instruments*. Inter-American Development Bank. IDB-DP-220.
- Michel-Kerjan, E., Zelenko, I., Cardenas, V. and Turgel, D. (2011). *Catastrophe Financing for Governments: Learning from the 2009-2012 MultiCat Program in Mexico*. OECD Working Papers on Finance, Insurance and Private Pensions, No. 9, OECD Publishing, Paris, France.
- Cardenas, V., Hochrainer, S., Mechler, R., Pflug, G. and Linneroothbayer, J. (2007). Sovereign Financial Disaster Risk management: the Case of Mexico. *Environmental Hazards*, 7(1), pp.40–53.



# TASK FORCE ON DISPLACEMENT





The Task Force on Displacement (TFD) was established in 2015 at COP 21, with its mandate later extended at the recommendation by the ExCom in 2018. The Task Force on Displacement currently comprises 15 members, including 4 ExCom members serving as facilitators of the expert group.

In its first phase, the TFD developed recommendations for integrated approaches to avert, minimize and address displacement related to the adverse impacts of climate change. Currently in its second phase, the work of the TFD focuses more broadly on strategic workstream (d) of the current five-year rolling workplan of the ExCom, which aims to enhance cooperation and facilitation in relation to human mobility, including migration, displacement and planned relocation. In particular, this strategic workstream focuses on better understanding the impacts of climate change on human mobility, disseminating and facilitating the uptake of the recommendations developed in the first phase, as well as facilitating stakeholder engagement for further action.





# Andrew Harper

 @And\_Harper  
 [linkedin.com/in/andrew-harper-431ba212](https://www.linkedin.com/in/andrew-harper-431ba212)

Andrew Harper is the Special Advisor on Climate Action to the United Nations High Commissioner for Refugees (UNHCR) in Geneva. He is responsible for providing strategic guidance, oversight and expertise to shape UNHCR's response to the climate emergency. Prior to his current tasks, he was the Director of the Division of Programme Support & Management, where he oversaw programme policy, planning and

management, as well as technical support to field operations.

Andrew has led the Innovation Service in UNHCR and was responsible for leading and coordinating the international response to the Syria Crisis in Jordan. One of his main achievements was the establishment of the Zaatari and Azraq refugee camps and ensuring that some 635,000 Syrian refugees were provided with assistance and protection.

Andrew also served as the Head of Desk for UNHCR, covering the Iraq Situation, as well as the Emergency Focal Point for the Middle East and North Africa region for the Libyan Crisis. He has previously worked for the Australian Embassy in Turkey and UNOCHA, and in various field locations with UNHCR, including Central and Southeast Asia, the Western Balkans, Islamic Republic of Iran and Ukraine.

## Current Affiliation

United Nations High Commissioner for Refugees (UNHCR)

## Education

B.A. Economics / Australian National University

## Professional Experience

- 2020 / Present / Special Advisor on Climate Action / (UNHCR)
- 2017 / 2020 / Director Programme Support and Management / (UNHCR)
- 2016 / 2017 / Chief of Innovation Service / UNHCR



# Atle Solberg

## Current Affiliation

Head of Secretariat, Platform on Disaster Displacement (PDD)

## Areas of Expertise

Disaster displacement and other forms of human mobility in the context of the adverse effects of climate change; Protection and Human Rights; Comprehensive Risk Management; Risk Modelling and Assessment; Preparedness, Disaster Risk Reduction, Solutions and Sustainable Development; Strategic Coordination.

## Education

- Cand. Polit. / Candidatus Rerum Politicarum / University of Bergen, Norway

## Professional Experience

- 2016 / Present / Head of Secretariat / Platform on Disaster Displacement (PDD)
- 2013 / 2015 / Head of Secretariat / Nansen Initiative
- 2009 / 2013 / Country Director / Norwegian Refugee Council (NRC), Colombia and Region



# Ezekiel Simperingham

📄 <https://twitter.com/ZSimperingham>



Ezekiel Simperingham is the Global Lead on Migration and Displacement for the International Federation of Red Cross and Red Crescent Societies (IFRC). Ezekiel leads the global work of the IFRC on migration and displacement, including strategy, emergencies and operations, community programmes, advocacy and diplomacy, accountability and knowledge sharing across the network of 192 National Societies.

Ezekiel is an international lawyer with more than 17 years of experience providing legal and policy advice on human rights, rule of law, migration, forced displacement (refugee and IDP) and housing, land and property (HLP) rights. Ezekiel has extensive experience working in conflict and disaster affected countries across the globe. Ezekiel has provided advice to Governments, International Financial Institutions, UN agencies, International NGOs and civil society.

Ezekiel previously worked for the IFRC as Asia Pacific Migration and Displacement Coordinator; IFRC Housing, Land and Property (HLP) Advisor in the Typhoon Haiyan Response in the Philippines; Displacement Solutions in Bangkok and London; the International Commission of Jurists (ICJ) in Bangkok; the Office of the High Commissioner for Human Rights (OHCHR) in Sri Lanka; the International Centre for Transitional Justice (ICTJ) in New York; the Refugee Status Appeals Authority (RSAA) in New Zealand and the United Nations High Commissioner for Refugees (UNHCR) in Australia.

Ezekiel has a Masters of Laws (LLM) degree from the New York University School of Law and holds Bachelor of Laws (LLB) with honours and Bachelor of Arts (BA) degrees from the University of Auckland, New Zealand. Ezekiel has authored a number of publications on refugee law, climate change induced displacement, international criminal justice and HLP rights.

## Current Affiliation

IFRC Global Lead, Migration and Displacement

## Areas of Expertise

Climate Related Displacement

## Education

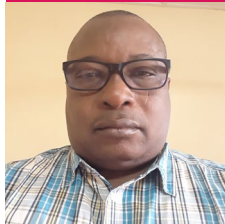
- LLM / Master of Laws / NYU, School of Law
- LLB / Bachelor of Laws / University of Auckland,
- B.A. (Hons) / Political Studies / University of Auckland

## Professional Experience

- IFRC Global Lead / Migration and Displacement
- IFRC Asia Pacific Coordinator / Migration And Displacement

## Selected Publications

- Leckie, S. and Simperingham, E. (2011a). Article 13: Moveable and Immoveable Property. In: A. Zimmermann, J. Dörschner and F. Machts, eds., *The 1951 Convention Relating to the Status of Refugees and Its 1967 Protocol: a Commentary*. [online] Oxford, New York: Oxford University Press.
- Leckie, S. and Simperingham, E. (2011b). Article 21: Housing. In: A. Zimmermann, J. Dörschner and F. Machts, eds., *The 1951 Convention Relating to the Status of Refugees and Its 1967 Protocol: a Commentary*. [online] Oxford, New York: Oxford University Press.
- Leckie, S., Simperingham, E. and Bakker, J. (2012). *Climate change and displacement reader*. New York, Ny: Earthscan.
- Simperingham, E. (2017). State Responsibility to Prevent Climate Displacement. In: *Climate change, Migration and Human Rights: Law and Policy Perspectives*. Milton Park, Abingdon, Oxon; New York, Ny: Routledge.



# Idrissa Semde



I prepared a thesis on food security in relation to climate change for West Africa in general and Burkina Faso in particular. Failure to master climate change resilience tools in food security policies is an obstacle to achieving food security. For developing countries, especially the Sahel countries, which are most affected by droughts and floods, food security is a development issue and WIM must develop strategies to take these disasters into account. I also train local authorities on the tools for taking climate change into account in local development plans.

## Current Affiliation

Network of environmentalist experts from Burkina Faso  
UNFCCC Least Developed Countries Expert Group

## Areas of Expertise

Adaptation to climate change for the benefit of the least developed countries (LEG member)

## Education

- PhD / Science and Technology / Environmental Management / Aube Nouvelle University of Ouagadougou / Burkina Faso
- M.Sc. / Science and Economics of Climate Change / Center for Scientific Research and Training (Cres) of Ouagadougou / Burkina Faso
- M.Sc. / Specialized Master in Sustainable Mining Management / International Institute of Water and Environmental Engineering (ziE) of Ouagadougou / Burkina Faso
- M.Sc. / Plans and Projects for Third World Cities / Polytechnic University of Turin / Italy
- Engineer / Chemical Industry (Option: Environmental Engineering) / National Institute of Higher Education in Industrial Chemistry / Mostaganem - Algeria

## Professional Experience

- 2020 / 2021 / Environmental expert, Consultant in charge of the revision of the national determined contribution (CDN) of Burkina Faso in terms of reduction of greenhouse gas emissions (GHG) and the revision of the national adaptation plan (PNA) of Burkina Faso the effects of climate change. / SP/CNDD (MEEVCC) Environment Ministry/Burkina Faso
- 2015 / 2021 / Environmental expert, member of the Ad'Hoc group of United Nations experts (UNFCCC\_LEG) on climate change adaptation issues in support of Least Developed Countries (LDCs). Countries assigned to support the strengthening of their adaptation: Burkina Faso, Niger, Chad and Mauritania. / UNFCCC

“

Developing countries, more particularly the Sahel countries, deserve special attention in the face of the consequences of climate change. To stop the waves of migrations of these populations towards Europe and the USA, and even terrorist movements, resilience strategies must be developed for them (job creation, development of education, development of the health level).


”

### Selected Publications

- MRV of support: National keys actions for forests conservation and reforestations promotion in Burkina Faso from 1985 to 2015 to mitigate climate changes. South Florida Journal of Development, Miami, v.2, n.3, p. 4929-4944 special edition, jul. 2021. ISSN
- Enhancing Food Security and Disaster Risk Resilience in Burkina Faso: New Resilience Pathways to Disaster Risk and Food Security in the Sahel for Public Action; June 2021. DOI: 10.9790/2402-1506013950 / www.iosrjournals.org
- Indicative Elements for Improving the Resilience of Food Security to climate risks in Burkina Faso; March 2021. DOI: 10.9790/2402-1503010115 www.iosrjournals.org
- Enhancing governance and processes for food security resilience to climate risks in Burkina Faso: an attempt toward developing vulnerability-mapping tools. African Journal of Agriculture and Food Security ISSN: 2375-1177 Vol. 9 (2), pp. 001-014, February, 2021.
- Food governance institutions perception of climate change impact on food security in Burkina Faso: October 2020. DOI: 10.9790/2402-1410033542 / www.iosrjournals.org



## Kayly Ober

 @KaylyOber



I'm the senior advocate and program manager for the Climate Displacement Program at Refugees International; and a steering group member of the Climate, Migration, and Displacement Platform, a global network of practitioners and advocates. I have over a decade of experience on climate, migration, and displacement issues, including working with the Asian Development Bank and the World Bank, where I co-authored the flagship report Groundswell: Preparing for Internal Climate Migration.

### Current Affiliation

Refugees International

### Areas of Expertise

Climate change adaptation, migration, displacement, immobility, "migration as adaptation"

### Education

- M.Sc. / Environment and Development / London School of Economics
- B.A. / International Studies / American University

### Professional Experience

- 2019 / Present / Senior Advocate, Climate Displacement Program / Refugees International
- 2019 / ET Consultant, Sustainable Development Goals / Asian Development Bank
- 2014 / 2018 / PhD Candidate / Research Associate, TransRe / University of Bonn
- 2016 / 2018 / Consultant, Climate Change Group / World Bank

I was also a research associate with TransRe, a group based at the University of Bonn that explored the application of migration as an adaptation strategy in rural Thailand and I spent an extended period of time in the country and Southeast Asia.

I have also previously worked at the Overseas Development Institute, Woodrow Wilson International Center for Scholars, and World Resources Institute, among others. I am currently completing my PhD in Geography at the University of Bonn, where my dissertation analyzes policymaking and governance structures around the climate change-adaptation-migration nexus.

### Selected Publications

- Ober, K. (2019). *The Links between Climate Change, Disasters, Migration, and Social Resilience in Asia: A Literature Review*. [online] [www.adb.org](http://www.adb.org). Asian Development Bank.
- Ober, K. (2021). *At a Climate Change Crossroads: How a Biden-Harris Administration Can Support and Protect Communities Displaced by Climate Change*. [online] Refugees International.
- Refugees International (2021). *Task Force Report to the President on the Climate Crisis and Global Migration: A Pathway to Protection for People on the Move - World*. [online] ReliefWeb.
- Rigaud, K.K., de Sherbinin, A., Jones, B., Bergmann, J., Clement, V., Ober, K., Schewe, J., Adamo, S., McCusker, B., Heuser, S. and Midgley, A. (2018). Groundswell. [Worldbank.org](http://Worldbank.org). [online]
- Sakdapolrak, P., Naruchaikusol, S., Ober, K., Peth, S., Porst, L., Rockenbauch, T. and Tolo, V. (2016). Migration in a changing climate. Towards a translocal social resilience approach. *DIE ERDE – Journal of the Geographical Society of Berlin*, [online] 147(2), pp.81–94.
- TransRe (2018). *Migration for Adaptation: A Guidebook to Integrate Migration and Translocality into Community-Based Adaptation | Environmental Migration Portal*. [online] [environmentalmigration.iom.int](http://environmentalmigration.iom.int).



# Ketí Chachibaia



Ketí Chachibaia serves as the Regional Technical Advisor for climate change adaptation at UNDP's Global Environment Finance Unit. With over 18 years of work experience as an environmental professional, she has supported programming work in over 20 countries, mainly in Asia, Northern Africa, Middle East, Eastern Europe and CIS where her main areas of support included project design, implementation, and results monitoring and oversight in the area of climate change adaptation.

She has technical expertise in climate change adaptation with a particular focus on institutions and policies for adaptation and nature-based approaches to disaster and climate risk management. She is currently supporting countries in several regions to identify and develop climate change adaptation initiatives to manage anticipated climate change risks at national and sub-national levels.

## Current Affiliation

UNDP

## Professional Experience

- Regional Technical Advisor for climate change adaptation / UNDP's Global Environment Finance Unit



# Kyle Heitmann



Kyle Heitmann is a human rights lawyer specializing in international environmental and international migration law. He has previously lived and worked in Costa Rica where he contributed substantially to a brief filed before the Inter-American Human

Rights Commission regarding a development project in rural Belize.

He has also worked with Latin-American migrants in Phoenix and San Francisco, and relatedly, co-authored a policy memorandum examining the legal means by which the State of California could protect its DACA-recipient residents' work authorization.

## Current Affiliation

Major Group for Children and Youth

## Education

- JD / Santa Clara University, USA
- LLM / Graduate Institute of International and Development Studies in Geneva

## Professional Experience

- 2021 / Present / Knowledge Management Consultant / Green Climate Fund
- 2020 / Present / Human Rights and Protection Lead / United Nations Major Group for Children and Youth
- 2020 / 2021 / Assistant Pro Bono Coordinator (Immigration Justice Project) / American Bar Association



# Liu Shuo



Liu Shuo has more than ten years of research experience focusing on climate change emissions reduction and adaptation. She has carried out relevant research on the impact,

vulnerability and adaptation policies and measures of climate change on terrestrial ecosystems, supported the decision-making of relevant ministries, familiarized herself with the research progress of LULUCF,


adaptation, adaptation and its synergy, and has worked on a number of international cooperation initiatives.


## Current Affiliation

Chinese Academy of Agricultural Sciences  
UNFCCC Adaptation Committee



# Manuel Marques Pereira

 @3mpereira

 <https://www.linkedin.com/in/manuel-marques-pereira-0b051b1a/>

“

Strengthen the dissemination of the realities and practicalities of displacement management, from the point of view of communities and governments, in support of global policy coordination and discussion.

”

## Current Affiliation

International Organization for Migration (IOM)

## Areas of Expertise

Displacement management, climate change adaption, disaster risk reduction humanitarian operations, environmental management

## Education

- Master's / Development and Emergency Practice / Oxford Brookes University
- Bachelor's / Environmental engineering / Universidade Lusófona de Humanidades e Tecnologias

## Professional Experience

- 2021 / Present / Head of the Migration, Environment and Climate Change Division / International Organization for Migration (IOM)
- 2018 / 2021 / Emergency Coordinator/Deputy Chief of Mission, Cox's Bazar, Bangladesh / International Organization for Migration (IOM)
- 2016 / 2021 / Cluster Coordinator for CCCM, Erbil, Iraq / International Organization for Migration (IOM)
- 2015 / 2016 / Regional Capacity Building Program Coordinator on CCCM for Southern Africa countries / International Organization for Migration (IOM)





# Michelle Leighton

 @MichelleTLeigh1



Serving as Chief of the Labour Migration Branch for the ILO, leading the global programme on Labour migration and mobility related to migrant workers and refugees. Established ILOs cross-departmental and HQ-field work on climate change related migration and displacement. Serve as an expert to the UNFCCC WIM Task Force on displacement, formerly appointed member of the World Economic Forum Global Agenda Council on Migration. Served as a United States Fulbright Scholar conducting research on various environmental and climate related areas in Central Asia, including publishing the first international law book for Central Asian states across various universities and including work on environment and human rights.

Served as UNU EHS Munich Re Foundation Chair on Social Vulnerability and member of the German Marshall Fund's Trans-Atlantic Study Team on Climate and Migration. Cited by the United States Supreme court for research and legal brief on application of human rights to US law.

Directed the Center for Law and Global Justice Human Rights Program at the University of San Francisco Law School. Co-founded the Natural Heritage Institute in San Francisco leading programs on environment, migration, corporate social responsibility, and human and labour rights and led GEF project research teams across Latin American countries on migration related to environmental change. Contributed to US Congressional Commission report on migration to the United States.

## Current Affiliation

Chief, director level, Labour Migration Branch, International Labour Organization

## Areas of Expertise

Environmental change, migration and displacement due to climate, including desertification and drought, labour markets and standards related to migrant workers and refugees, human rights and other international legal standards

## Education

- LLM / International Law / LSE - London School of Economics and Political Science
- JD / Law / Golden Gate University School of Law, SF
- B.A. / International Relations / University of California at Davis

## Professional Experience

- 2010 / 2013 / US Fulbright Scholar Central Asia, Kyrgyzstan US Fulbright Institution, and American University of Central Asia
- 2007 / 2010 / Academic and Head of Center for Law and Global Justice / University of San Francisco School of Law
- 1999 / 2003 / Founder and Director International Program / Natural Heritage Institute

## Selected Publications

- Co-author, Chapter on *Climate Change-Related Migration*, in the International Bar Association's Legal Aspects of Climate Adaptation (forthcoming 2022)
- Co-author, Chapter on *The Organizational Perspective from the International Labour Organization*, eds François Crépeau & Benoît Mayer, *Research Handbook on Climate Change, migration and the Law* (2017)
- Co-author, "With Millions Displaced by Climate Change or Extreme Weather, Is There a Role for Labor Migration Pathways?" MPI Source, 2017

“

I bring the vantage of how ILO standards, policy and guidance and practical experience in the field can support solutions and actions that can help governments and stakeholders contribute to improving labour rights, labour market outcomes and decent work for those displaced or forced to migration due to climate change related impacts, and as Co-Lead of the UN Network on Migration working group on climate

change and migration, help to make the connection to Global compact on safe, orderly and regular migration.

”

- Author, Chapter on *Population Displacement, Relocation, and Migration*, in *Adaptation to Climate Change and the Law: U.S. and International Perspectives*, ed. Michael Gerrard, Columbia University (American Bar Association, Wash. D.C., 2012).
- Co-editor, *Rethinking Policies: Vulnerability and Migration*, Case Studies, Source Volume, (United Nations University, Institute for Environment and Human Security, Bonn, July 2011).
- Author, Chapter on *Desertification, Drought, and Migration: Past Experiences, Predicted Impacts and Human Rights Issues*, in *Migration and Climate Change*, UNESCO (Cambridge University Press, U.K., July 2011).
- Author, “Desertification and Drought,” in *Migration, Environment, and Climate Change: Assessing the Evidence*, Frank Laczko, ed., (International Organization for Migration, Geneva, 2009)
- Author, “Desertification and Migration,” *Governing Global Desertification*, (Ashgate Press, London, 2006).

EXPERT GROUP  
ON ACTION  
AND SUPPORT





The terms of reference of the Action and Support Expert Group (ASEG) were adopted at ExCom 12 in 2020, with the first meeting of the expert group taking place in 2021. ASEG currently comprises 19 members, including 4 ExCom members serving as facilitators of the expert group.

The work of the ASEG focuses on strategic workstream (e) of the current five-year rolling workplan of the ExCom, which focuses on enhancing cooperation and facilitation in relation to action and support, including finance, technology and capacity-building, to address loss and damage associated with the adverse effects of climate change. Recognizing the urgency of enhancing mobilization of action and support to address loss and damage associated with the adverse effects of climate change, ASEG has developed a focused Plan of Action, avoiding duplication of existing efforts, and has commenced its implementation in 2021.



# Ayaz Parvez



Ayaz Parvez has been working at the World Bank's Global Facility for Disaster Reduction and Recovery (GFDRR), as Lead Disaster Risk Management (DRM) Specialist since August 2020. Previously, he has worked as Senior Disaster Risk Management Specialist within the Africa Region DRM Team of the Bank since 2015. Ayaz is a seasoned DRM practitioner and brings various specialized skills such as the design and implementation of both disaster and crisis recovery projects, design of disaster risk reduction initiatives including in FCV settings, the conduct of post disaster and post crisis needs assessments and programmatic recovery frameworks, and enjoys a special niche of working in Disaster-Conflict Nexus situations. He currently leads GFDRR teams on resilient recovery and the disaster-conflict nexus.

As Task Team Leader, Ayaz has over the last 5 years, prepared and implemented 8 disaster and crisis recovery and DRM investment projects, including in Malawi, Somalia, Nigeria and Zimbabwe. Ayaz has also particularly focused on slow-onset disasters including droughts and food security interventions in the recent past. He also brings in specialized knowledge of working both directly and indirectly with UN agencies in Bank investment projects.

Previously, he worked with GFDRR's Resilient Recovery Team, and led Global Flagship initiatives on disaster recovery, including a Global Guide for Developing Disaster Recovery Frameworks, and the report on "Resilient Recovery: An Imperative for Sustainable Development". He also routinely conducted trainings in post-disaster need assessment and recovery planning.

## Current Affiliation

World Bank's Global Facility for Disaster Reduction and Recovery (GFDRR)

## Education

- Master's / Public Administration
- Bachelor's / Civil Engineering

## Professional Experience

- Lead Disaster Risk Management Specialist / World Bank's Global Facility for Disaster Reduction and Recovery (GFDRR)
- 2010 / 2014 / GFDRR Resilient Recovery Team / World Bank's Global Facility for Disaster Reduction and Recovery (GFDRR)



# Diann Black-Layne



**Diann Black-Layne is the current director of the Department of the Environment in the Government of Antigua and Barbuda. With over 20 years of experience in the field of environmental management, she has worked on various issues, including protected areas, development of legislation and policy, preparing project documents and**

**seeking international funding as well as designing national financial mechanisms for environmental management in SIDS.**

**In 2008, she was appointed the lead negotiator in MEAs for Antigua and Barbuda and in the same year was appointed as Ambassador and lead negotiator for climate change.**

**She has also served as the first co-chair of the Standing Committee on Finance and served on the transitional Committee for the Green Climate Fund.**

## **Current Affiliation**

Department of the Environment of Antigua and Barbuda  
UNFCCC Standing Committee on Finance

## **Professional Experience**

- Director / Department of the Environment of Antigua and Barbuda
- 2008 / Ambassador and lead negotiator for Climate change for Antigua and Barbuda / Government of Antigua and Barbuda



# Daniel Edward Osgood

@ dan.e.osgood  
in linkedin.com/in/daniel-osgood-58a74030  
t @OsgoodDan  
f https://www.facebook.com/daniel.e.osgood



Daniel Osgood leads the Financial Instruments Sector Team at the International Research Institute for Climate and Society (IRI). He has an agricultural economics PhD from UC Berkeley. His team drives forecast based action and insurance efforts around the world, supporting many of the index insurance projects that have gone to scale.

These projects range from national-level insurance to the hundreds of thousands of smallholder farmers purchasing index insurance contracts built through the farmer-driven, science-based crowd at core processes. He has been involved in global policy processes such as the UNFCCC, with projects he works on highlighted by Ban Ki-moon in the opening speech at the 2015 Paris COP and has had press coverage in venues spanning Voice of America, Al Jazeera, the Guardian, Nature, New York Times, and Reuters.

## Current Affiliation

International Research Institute for Climate and Society, Columbia University

## Areas of Expertise

Index insurance, forecasts, finance, triggers, and actions

## Education

- PhD / Agricultural and Resource Economics / University of California Berkeley
- M.Sc. / Agricultural and Resource Economics / University of California Berkeley
- B.A. / Economics / University of California, Santa Cruz
- BS / Electrical Engineering and Computer Science / University of California, Berkeley

## Professional Experience

- 2004 / Present / Research Scientist, Lead Scientist Financial Instruments Sector Team / International Research Institute for Climate and Society, Columbia University
- 2000 / 2004 / Assistant Professor and Assistant Specialist, Agriculture and Resource Economics / University of Arizona



# Elizabeth Emanuel



Elizabeth Emanuel is an international development consultant with over twenty years of development experience, with specific emphasis on public policy, development planning, environmental management, climate change adaptation, sustainable development planning, environmental education and communication, and project management. She has a track record of success in engaging a wide range of stakeholders using “people centered” and participatory approaches – in the public sector, local communities, academia, private sector entities and youth, successfully developing partnerships and collaborative arrangements geared towards advancing countries’ sustainability agenda. She heads the partnership Sustainability Managers which is contracted by CCRIF SPC (formerly the Caribbean Catastrophe Risk Insurance Facility) since 2009 to lead the Technical Assistance

and Corporate Communications portfolios of CCRIF – the world’s first multi-country risk pool based on parametric insurance. She also supports CCRIF in the development of training programmes in disaster risk financing for its members, as well as its strategic planning processes. She plays a key role in other special projects such as those focusing on microinsurance products and integrated risk management.

She also has experience working with over 20 Governments in the Caribbean in several areas such as disaster risk management and financing, environmental management, energy and transport management, and sustainable development planning among others. She also has had experience working on projects in Africa. Elizabeth also consults for a range of development partners such as various UN agencies such as ECLAC, UNICEF, UN Women, FAO and UNDP. She has also worked with the IDB and the World Bank on various projects.

## Current Affiliation

CCRIF SPC (formerly The Caribbean Catastrophe Risk Insurance Facility)

## Education

- M.Sc. / Development studies, The University of the West Indies
- B.Sc. / Economics

## Professional Experience

- 2009 / Present / International Development Consultant / Caribbean Catastrophe Risk Insurance Facility
- 2005 / Present / Partner / Lead Consultant / Sustainability Managers
- 2006 / 2019 / Programme Director, Vision 2030 Jamaica / Planning Institute of Jamaica
- 1998 / 2005 / Government of Jamaica Advisor / ENACT Programme





# Emmanuel Seck



Emmanuel Seck is a board member of the Global Network for Disaster Reduction and where he serves as a regional representative of West and Central Africa. He has been engaged at the national, regional and international levels in the intergovernmental processes of the UNFCCC, the UN Convention to Combat Desertification and the Sendai Framework.

## Current Affiliation

Environnement et Developpement du Tiers Monde

## Education

- M.Sc. /Information and Communication Sciences / University Cheikh Anta Diop-EBAD/ Senegal
- Postgraduate Certificate / Environmental Management and Sustainable Management / Wye Imperial College-Lead International / UK

## Professional Experience

- Program Manager / Environnement et Developpement du Tiers Monde

## Selected Publications

- Laura Schäfer, Pia Jorks, Emmanuel Seck et al., 2020. Slow-onset Processes and Resulting Loss and Damage, 42p., Germanwatch, Bonn
- Emmanuel Seck, 2014. Baseline Analysis on Adaptation Fund projects: Insight from Senegal, 12p., Germanwatch, Bonn



# Laila Mikou

<https://www.linkedin.com/in/laila-mikou-87062b6/>



Laila MIKOU is the GCF focal point of CDG Capital. Back in 2017, she was also involved in a physical risk project (CRIS methodology) linked to the loss and damage subject, sponsored by AFD, CDG Capital and other French asset / pension managers. In 2008, she set up the first carbon Fund in French-speaking Africa sponsored by local and international investors.

As a Moroccan national, she witnessed with strong interest the establishment of an innovative Solidarity Fund against Catastrophic Events. This fund is a critical tool which complements private insurance by compensating the uninsured, such as the poor and most vulnerable. It makes use of sophisticated risk financing instruments to cover losses caused by extreme flooding and earthquakes.

## Current Affiliation

CDG Capital

## Areas of Expertise

Adaptation and mitigation, GCF focal point

## Education

- MBA / International Management / Ecole Nationale des Ponts et Chaussées
- Master's / Science of Management / EM LYON
- Certificate / Disruptive Strategy / HBS online

## Professional Experience

- 2017 / Present / Sustainable Development Director / CDG Capital
- 2007 / 2017 / Investment Director / CDG Capital Private Equity
- 2004 / 2007 / Project manager / General Electric



# Mahawan Karuniasa



Mahawan Karuniasa currently works as a lecturer at the School of Environmental Science at the University of Indonesia. He has 30 years of experience in forestry, environment, climate change and sustainable development and has worked with the government, private sector, and communities, as well as with various international and national institutions.

He is the Chairman of the Indonesia Expert Network on Climate Change and Forestry and is a member of the Paris Committee on Capacity-building where he represents the Asia-Pacific region.

He is part of the delegation of the Republic of Indonesia to the COPs, with a special focus on capacity-building issues. At the national level, he contributes to the development of climate change policies and NDC strategy and conducting of capacity gaps and needs assessments.

## Current Affiliation

School of Environmental Science, University of Indonesia  
UNFCCC Paris Committee on Capacity-building

## Education


- PhD / Environmental Science / University of Indonesia

## Professional Experience

- Lecturer / School of Environmental Science, University of Indonesia



# Malvern Chirume

 [www.linkedin.com/in/malvernchirume](https://www.linkedin.com/in/malvernchirume)



Malvern Chirume is Chief Underwriting Officer at the African Risk Capacity Insurance Company Limited (ARC Ltd). ARC Ltd is a financial affiliate of the African Risk Capacity (ARC), a specialized agency of the African Union, Africa's first risk pool for climate related perils. In this role he has responsibility for the structuring and pricing of insurance policies that ARC Ltd offers to its clients. He is also responsible for the placement of the reinsurance portfolio as well as development of additional insurance products. ARC currently provides insurance coverage for drought and tropical cyclone whilst a flood product is under development.

Malvern is involved in efforts to mobilise premium to assist vulnerable countries cope with the impact of climate change. He has contributed to studies that seek to quantify the impact of climate change on the frequency and severity of drought in African countries.

Malvern has deep insurance sector knowledge gained in US, Bermuda, Europe, Middle East, and African markets. He is a Chartered Accountant and is registered as a Fellow with both the Institute of Chartered Accountants of Zimbabwe, and the Institute of Chartered Accountants in England and Wales. He is also a member of the Institute of Risk Management South Africa (IRMSA) and holds a Masters in Finance from London Business School.

## Current Affiliation

Chief Underwriting Officer, African Risk Capacity

## Education

- Fellowship / Chartered Accountant / Institute of Chartered Accountants in England & Wales
- Fellowship / Chartered Accountant / Institute of Chartered Accountants of Zimbabwe
- M.Sc. / Finance / London Business School
- Bachelor's / Accounting / University of Zimbabwe

## Professional Experience

- 2017 / Present / Chief Underwriting Officer / African Risk Capacity
- 2013 / 2017 / Chief Risk Officer / FEM
- 2008 / 2012 / Independent Consultant / Various London market insurers



# Mark Bynoe

 [linkedin.com/in/mark-bynoe-68b610174](https://www.linkedin.com/in/mark-bynoe-68b610174)



Managed a Stern-Type review on the Economics of Climate Change in the Caribbean. This work focused heavily on the impacts of climate change on the energy, agricultural, tourism, water and infrastructural sectors. Additionally, I was involved in multiple damage assessment after natural disasters, inclusive of in Guyana and Grenada.



Given the current impact of climate change on Caribbean economies, not only puts them in perpetual recession, but crowds out the limited fiscal space with demands to meet basic needs. The dream of building back better remains a distant mirage!



## Current Affiliation

Assistant Executive Director, Caribbean Community Climate Change Centre

## Areas of Expertise

Climate finance, resource economics, economics of climate change, SIDS

## Education

- PhD / Environmental & Resource Economist / University of East Anglia
- M.Sc. / Natural Resource Management / University of Edinburgh
- PG Dip / Development Studies / University of Guyana
- B.Sc. / Geography/Economics (Double Major) / University of Guyana
- Certificate / Environmental Economics / Harvard University

## Professional Experience

- 2018 / 2020 / Inaugural Director - Guyana / Department of Energy, Ministry of the Presidency
- 2015 / 2018 / Assistant Executive Director / Caribbean Community Climate Change Centre
- 2008 / 2015 / Senior Environmental Economist / Caribbean Community Climate Change Centre
- 2001 / 2009 / Director / School of Earth and Environmental Sciences, University of Guyana

## Selected Publications

- Alexander, Eustance, David Singh, Tim Killeen, Marc Steininger, Fabiano Godoy, Lisa Famolare, Benjamin Vitale, Augustin Silvani, Robert O'Sullivan, Charlotte Streck, David Shoch, Mark Bynoe, Marciano Glasgow, David James and Neils Wielaand (2009) [Biodiversity Mainstreaming through Avoided Deforestation: Guyana Case Study](#), Conservation International, Technical Paper #1, Washington, DC.
- Bynoe, Mark and Rose, Shanomae (2010) "The Socio-Economic and Environmental Impacts of Mining in Guyana" in *L'Amazonie, un demi-siècle après la colonisation*, Quae, France.
- Armenteras, Dolores, Asha Singh, Mark Bynoe, Monica Morales and Susan Singh-Renton (2010) *Co-Authored Chapter III in Latin American and the Caribbean: Environmental Outlook*, United Nations Environment Programme, Panama, pp 183 – 221.
- Bynoe, Mark (2011) *Applying Resource Economics to Integrate Sustainable Development Principles in Small Island Developing States*, (Constance Vigilance and John Roberts (editors) in book entitled "Mainstreaming Sustainable Development in Small States," Commonwealth Secretariat Publication, Commonwealth Secretariat, London ISBN: 978-1-84929-052-4

- Bynoe, Mark (2011) *Mainstreaming Sustainable Development in Sectoral and National Budgets*, Constance Vigilance and John Roberts (editors) in book entitled “Mainstreaming Sustainable Development in Small States,” Commonwealth Secretariat Publication, Commonwealth Secretariat, London ISBN: 978-1-84929-052-4.
- Glasgow, Dianna and Mark Bynoe (2012) “Strategic Response to Evolving Food Safety Standards: A Case Study of Guyana’s Fish Export Sector” *The Estey Centre Journal of International Law and Trade Policy*, Volume 13 Number 2 (2012) pp. 201-215.
- Bynoe, Mark (2014) “The Use, Adaptation and Management of Technology for the Urban Sector”, *Technical Paper Working Series: Land and Urban Management. University of the West Indies*, Port of Spain, ISBN: 978-976-620-280-4
- Dianna DaSilva-Glasgow and Mark Bynoe, “Reflection on the Motives for Caribbean Integration and the European Union Experience Considered”. Chapter in the book *The Caribbean in a Changing World Economy*, Cambridge Scholars publishers 2016
- United Nations Development Programme (2016) Human Development Report for Latin America and the Caribbean. Author for the Chapter on Sustainable Development, UN Publishers, New York.



## Monique Motty

 <https://www.linkedin.com/in/monique-motty/>  
 [www.moniquemotty.com](http://www.moniquemotty.com)



Monique sits on the Technology Executive Committee (TEC), where she focuses on identifying policies that can accelerate the development and transfer of low-emission and climate resilient technologies to achieve the Climate Paris Agreement’s objectives. In addition to being a member of the innovation and stakeholder engagement taskforces, she is a co-focal point for gender mainstreaming across TEC activities.

She has worked internationally on climate change, clean energy, and green finance projects for a number of stakeholders including a multilateral development bank, an international think tank, a national forest entity, and various UN agencies.

Monique co-authored and contributed to peer-reviewed articles and reports on climate finance for energy transition, tenure related to bioenergy development, adaptation finance in the context of covid-19 and opportunities and modalities for upscaling private sector green investments.

### Current Affiliation

UNFCCC Technology Executive Committee

### Areas of Expertise

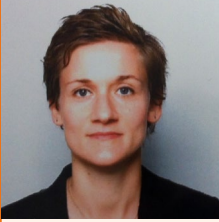
Climate technology, clean energy, green finance

### Education

- MC / MPA / Master of Public Administration/ Harvard University
- M.Sc. / Energy, Environmental Technology and Economics / City, University of London
- Advanced Diploma / Monitoring and Evaluation: Project Management for the UN, Government, and NGOs / New York University
- Certificates / Adaptation Finance and Climate & Renewable Energy Finance / Frankfurt School of Finance and Management

### Professional Experience

- Regional Climate Change and Green Growth Expert for Central Africa / AfDB
- Climate Technology Specialist and Capacity Building Coordinator for West and Central Africa / CTCN
- Technical assessment for project proposals on sustainable charcoal supply chain and biogas market penetration in urban cities / National REDD+ Fund (FONAREDD) Secretariat in DR Congo



# Nicolina Lamhaug

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**Nicolina Lamhaug** has 10 years of experience working at the OECD on climate and development-related issues and most recently has taken on the role of manager for the OECD project on losses and damages from climate change. Nicolina worked between 2014 and 2016 at the UN Secretary-General's Office in New York in the Climate Change Unit, supporting country engagement in the lead-up to COP21. Before joining the OECD, Nicolina worked at the BRAC Development Institute in Dhaka, Bangladesh, where she managed research projects in India and Pakistan focused on the role microfinance can play in supporting vulnerable segments of the population in graduating out of extreme poverty.

## Current Affiliation

Organisation for Economic Co-operation and Development

## Areas of Expertise

Climate change adaptation and development, climate change policy

## Education

- M.Phil. / Development Studies / Institute of Development Studies (IDS), Sussex University, Brighton, UK
- B.A. / Geography and Economics / Simon Fraser University, Vancouver, Canada

## Professional Experience

- 2016 / Present / Policy Analyst and project manager, climate change and development / OECD
- 2015 / 2016 / Programme Officer, UN Secretary-General's Climate Change Team / UN
- 2010 / 2010 / Policy Analyst, climate change adaptation / OECD
- 2008 / 2010 / Research Associate / BRAC Development Institute

## Selected Publications

- OECD (2021). Strengthening Climate Resilience: Guidance for Governments and Development Co-operation. [online] [www.oecd-ilibrary.org](http://www.oecd-ilibrary.org).
- OECD (2020). Common Ground Between the Paris Agreement and the Sendai Framework: Climate Change Adaptation and Disaster Risk Reduction | en | OECD. [online] [www.oecd.org](http://www.oecd.org).
- OECD (2015). National Climate Change Adaptation: Emerging Practices in Monitoring and Evaluation. [online] [www.oecd-ilibrary.org](http://www.oecd-ilibrary.org).
- Lamhaug, N., Lanzi, E. and Agrawala, S. (2013). The use of indicators for monitoring and evaluation of adaptation: lessons from development cooperation agencies. *Climate and Development*, 5(3), pp.229–241



# Nisha Krishnan

## Current Affiliation

World Resources Institute

## Areas of Expertise

Climate risk mainstreaming in public and private institutions, climate finance policy and international financial institutions, adaptation finance, finance accountability, finance devolution and decentralization and locally-led adaptation, climate finance and financial technologies, capacity building.

## Education

- PhD / Public Policy / University of Texas at Austin
- M.A. / Applied Economics / Johns Hopkins University
- B.A. / Economics and Political Science / Macalester College

## Professional Experience

- 2017 / Present / Senior Climate Finance Associate / World Resources Institute
- 2019 / 2021 / Finance Action Track Co-Lead / Global Commission on Adaptation
- 2012 / 2017 / Graduate Research Fellow / Strauss Center for International Security and Law, University of Texas at Austin
- 2010 / 2012 / Associate, Impacts & Vulnerability Group / ICF International



## Rajiv Garg



Rajiv has over 26 years of experience on issues related to climate technologies in developing countries. He has led the implementation of a number of niche programmes and initiatives on energy, water management, Agriculture productivity and Irrigation, Remote Sensing and GIS, pollution minimization and control, waste management, EIA, resource efficiency & cleaner production and Green Productivity.

### Current Affiliation

Regional Manager, Climate Technology Center and Network (CTCN)

### Areas of Expertise

Climate technologies

### Education

- PG Certificate / Industrial Pollution Prevention and Control / National Productivity Council, India
- Master's / M.Sc. Engineering – Environment and Water Resources / Aligarh Muslim University, India
- Bachelor's / B.Sc. Engineering – Civil / Aligarh Muslim University, India

### Professional Experience

- 2009 / Present / Programme Management Officer / United Nations Environment Programme
- 2008 / 2009 / Energy Economist / Bureau of Energy Efficiency, Ministry of Power, Govt. of India
- 1996 / 2008 / Deputy Director, energy and Environment Management Division / National Productivity Council, India



## Randy Caruso

### Current Affiliation

U.S. Department of State  
UNFCCC Standing Committee on Finance


### Professional Experience

- Foreign Affairs Officer, Office of Global Change / U.S. Department of State





# Simon Young

 <https://www.linkedin.com/in/simon-young-636154b/>



Simon is part of the senior management team in WTW's Climate and Resilience Hub. He leads the Hub's work in the innovative collection, modelling and use of hazard and risk data in risk management tools and risk financing instruments to bring greater resilience to sovereigns, other public institutions, and the private sector, as well as at the individual and community level. Simon is a recognised global leader in the development of parametric insurance instruments, encompassing technical design, risk transfer structuring, and real-time trigger calculation and pay-out delivery.

He has unparalleled experience in managing implementation of parametric insurance programmes from multi-country risk pools to micro-insurance, and from covering pandemic to natural ecosystem risk (including all the more conventional climate and cat perils in between).

He has worked globally but has a particular passion for the small islands of the Caribbean and Pacific and their particular resilience challenges. Simon has a background in Earth Sciences and, after completing a PhD in volcanology, worked for the British Geological Survey on a variety of projects, including as Chief Scientist and the founding Director of the Montserrat Volcano Observatory during the main phase of the eruptions at Soufrière Hills volcano between 1995 and 2000.



I hope I can continue to bridge the divide between the practical needs of individuals, households, and communities as they build resilience to increasing climate risk and the insurance sector where many critical and valuable tools and products have already been developed and deployed.



## Current Affiliation

Senior Director, Climate and Resilience Hub, Willis Towers Watson

## Areas of Expertise

Weather and climate risk modelling; development and implementation of innovative insurance solutions for managing and financing climate risk; risk financing applications for ecosystem resilience and biodiversity conservation

## Education

- PhD / Physical Volcanology / Lancaster University, UK
- B.Sc. (Hons) / Geology / Liverpool University, UK

## Professional Experience

- 2000 / 2019 / President and Principle Consultant / GeoSY Ltd
- 2007 / 2013 / CEO / Caribbean Risk Managers Ltd
- 2014 / 2016 / CEO / African Risk Capacity Insurance Company Ltd



**For more information:**  
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