



# **STUDENT GLOBAL CLIMATE CHANGE SIMULATION**

P R O G R A M





# ASSOCIATION OF PACIFIC RIM UNIVERSITIES

## A Network With Impact

As the voice of knowledge and innovation, we use our unique geographical reach across the Americas, Asia, and Australasia to bring together thought leaders, researchers, and policy-makers to collaborate on effective solutions to 21st century challenges.

We focus on leveraging the collective education and research capabilities of our members into the international public policy process in selected areas including: natural hazards and disaster risk reduction, women in leadership, population aging, global health, sustainable cities, artificial intelligence and the future of work, the Pacific Ocean, and labour mobility.

Together we solve today's global challenges.

## The Global Health Program

The APRU Global Health Program aims to leverage the global health education and research of Asia-Pacific universities to address global health issues through interaction with public policy and media.

Since its launch in 2007-2008, the program has covered a significant range of topics including emerging public health threats, aging and chronic diseases, infectious diseases and health security issues.

It has recently engaged academics, policy leaders, media specialists and communities on non-communicable diseases and on global health issues on campus. The program is hosted by the USC Institute on Inequalities in Global Health and has a core group coordinating the program.

## Sustainable Cities and Landscapes Program and Research Hub

The University of Oregon, an international leader in sustainable urban design and landscape planning through its renowned Sustainable Cities Initiative and its Department of Landscape Architecture, is hosting the APRU Sustainable Cities and Landscapes Program and Research Hub. The Sustainable Cities and Landscapes Program exists under the umbrella of the Association of Pacific Rim Universities, a network of leading research universities from around the Pacific Rim. The Program and Hub works within the framework of the Voice of Knowledge and Innovation for the Asia-Pacific region and aims to engage with cross-disciplinary experts, government officials and non-governmental organizations to consider cities in the context of their many landscape interdependencies, including services, networks and systems within and beyond the urban periphery. It will harness the breadth of experiences and socio-ecological contexts across the Pacific Rim to compare existing practices and models of city-landscape interactions, and to initiate solutions and policy interventions to make entire city-landscape complexes more sustainable.



# STUDENT GLOBAL CLIMATE CHANGE SIMULATION

The APRU Student Global Climate Change Simulation is a role-playing exercise in which students will form multi-country, multi-disciplinary teams to play the role of delegates to the UN Climate Change Negotiations.

Over three sessions, we will hold an online simulation activity using materials from the World Climate Interactive and the EN-ROADS simulation model developed by MIT. These live sessions will be supplemented with short lectures and other materials developed and curated by the APRU experts, which will be available on a shared Canvas website. To learn more, visit the World Climate Simulation.

Students will be assigned to international teams (students from various universities). Teams will be assigned one of 6 countries/regions. Over 3rd rounds of discussions and negotiations, teams will participate in breakout rooms facilitated by international experts in climate science. In addition, teams will hear perspectives from experts on topics such as indigenous knowledge, planetary health, public health, coastal habitats, deforestation, clean energy, trading and offsets, and diplomacy and negotiation skills.

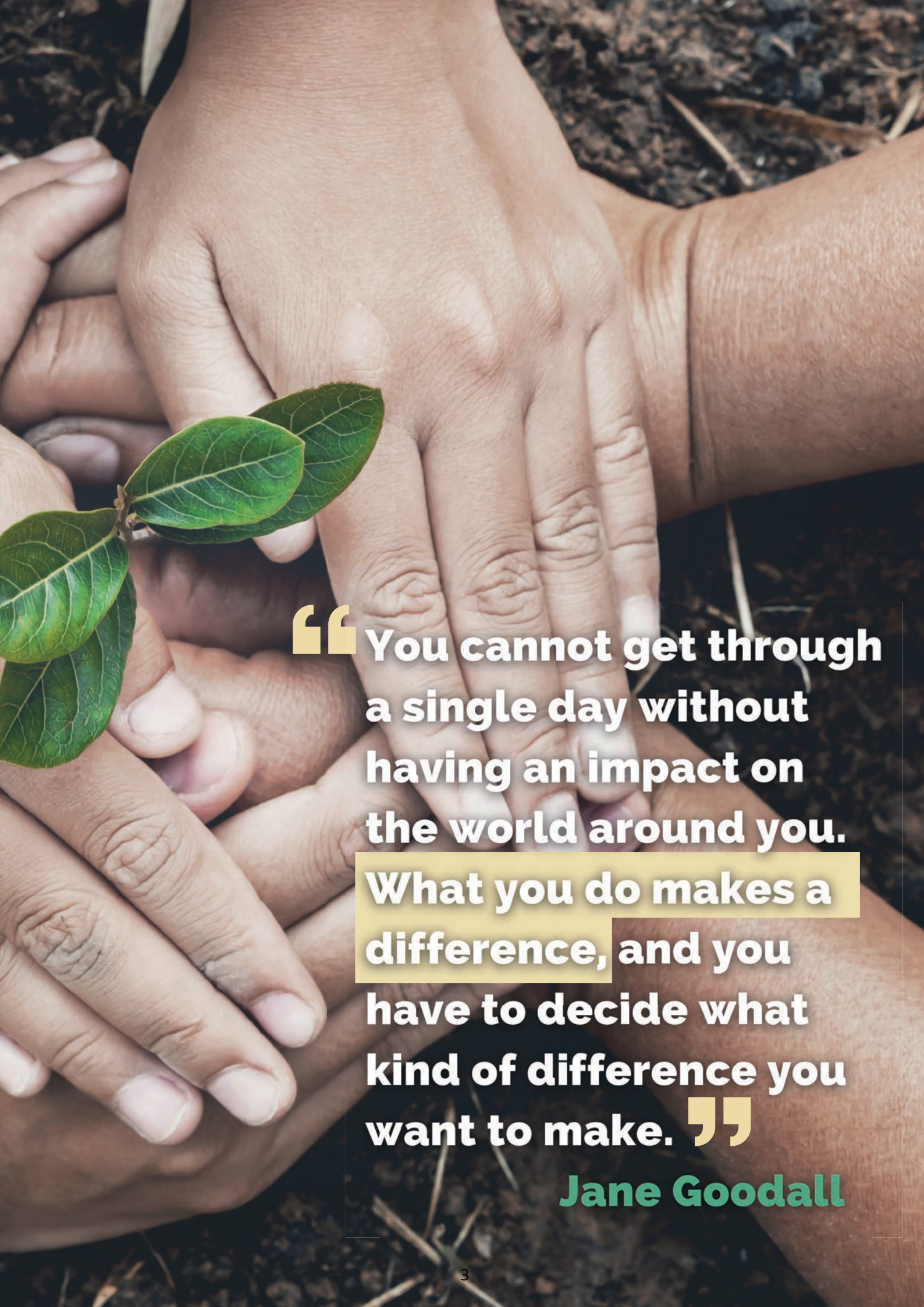
Teams will discuss the human and environmental effects of climate change, as well as the economic impact that countries/regions consider in determining their position and global commitments.

The APRU Student Global Climate Change Simulation is co-organized by APRU Sustainable Cities and Landscapes Program and Research Hub housed at the University of Oregon and APRU Global Health Program housed at the University of Southern California.

Partner Universities include Monash University, Nanyang Technological University, Peking University, Tecnológico de Monterrey, The Chinese University of Hong Kong, The University of Auckland, The University of Melbourne, Tohoku University, Universidad San Francisco De Quito, Universiti Malaya, and University of Washington.







**“ You cannot get through a single day without having an impact on the world around you. What you do makes a difference, and you have to decide what kind of difference you want to make. ”**

**Jane Goodall**



# OPENING CEREMONY (DAY 0) AUGUST 11

## SCHEDULE PACIFIC TIME

6:00 - 6:10pm	Welcome by Mellissa Withers and Grace Honeywell (APRU)
6:10 - 6:15pm	Christopher Tremewan (APRU)
6:15 - 6:27pm	Bernhard Barth (UN Habitat)
6:27 - 6:39pm	Tracy Nilsson (Adidas)
6:39 - 6:51pm	Ralph Chami (Rebalance Earth/IMF)
6:51 - 7:03pm	Elly Vandegrift (UO) "Simulation 101"
7:03 - 7:15pm	Team meetings in breakout rooms
7:15 - 7:27pm	Cesar Lucio (Tec de Monterrey) "The Simulation Components"
7:27 - 7:40pm	Haibin Zhang (Peking University) "Negotiation Tactics"
7:40 - 7:45pm	Wrap up

## DAY 1 AUGUST 25

6:00 - 6:05pm	Welcome
6:05 - 6:18pm	Myriam Merchan (World Business Council on Sustainable Development)
6:18 - 6:20pm	Move to two separate rooms
6:20 - 6:42pm	Position Reports from a member of each team (2 minutes max)
6:42 - 6:52pm	1st round of pledges and discussion of results
6:52 - 7:25pm	Negotiations with other groups

Each country sends delegates to other country/region rooms to negotiate. Facilitator in each room will help guide the discussions.

- *EU: Rebekkah Markey-Towler (Melbourne) and Hironobu Iwabuchi (Tohoku)*
- *US: Adell Amos (UO) and Chris Boyer (UW)*
- *"Other developed countries": Donna Green (UNSW) and Jamie Hosking (Auckland)*
- *"Other developing countries": Gitanjali Bedi (Monash) and Cristina Mateus (USFQ)*
- *China: Wei Huang (PKU) and Laura Falkenberg (CUHK)*
- *India: Monalisa Chatterjee (USC) and Nasrin Aghamohammadi (UM)*

7:25 - 7:40pm	Closed team breakout session
7:40 - 7:52pm	2nd round of pledges and discussion
7:52 - 7:54pm	Move back to one main room
7:54 - 8:25pm	Activist speeches by: <i>Zhenyu Zhang (PKU) on the climate activist perspective</i> <i>Rhys Jones (Auckland) on the indigenous rights perspective</i>
8:25 - 8:30pm	Wrap up

## DAY 2 SEPTEMBER 1

6:00 - 6:05pm	Opening Day 2
6:05 - 6:18pm	Samuel Sellers (formerly US Agency for International Development)
6:18 - 6:20pm	Move to separate rooms
6:20 - 7:05pm	Breakout Sessions

Six breakout rooms organized by topic. Each team can send 1-2 reps to each room. Facilitator will moderate discussions/negotiations.

- *Deforestation: Amos Tai (CUHK) and Helena Varkkey (UM)*
- *Reforestation: Yuzuru Isoda (Tohoku) and Tze Kwan Fung (NUS)*
- *Clean Tech Industry: Hancheng Dai (PKU) and Meike Sauerwein (HKUST)*
- *Trading and Offsets: Adam Switzer (NTU) and Serena Sze Ring Pau (SEC/CLP)*
- *Population Control: Andrea Jimenez (Tec) and Yinzi Jin (PKU)*
- *Oceans: Jerome Hui (CUHK) and Joyce Ong (NTU)*

7:05 - 7:25pm	Closed team breakout sessions
7:25 - 7:40pm	3rd round of pledges and discussion
7:40 - 8:25pm	Debrief and reflections
8:25 - 8:30pm	Wrap up

# OPENING CEREMONY (DAY 0) AUGUST 12

## SCHEDULE HONG KONG TIME

9:00 - 9:10am	Welcome by Mellissa Withers and Grace Honeywell (APRU)
9:10 - 9:15am	Christopher Tremewan (APRU)
9:15 - 9:27am	Bernhard Barth (UN Habitat)
9:27 - 9:39am	Tracy Nilsson (Adidas)
9:39 - 9:51am	Ralph Chami (Rebalance Earth/IMF)
9:51 - 10:03am	Elly Vandegrift (UO) "Simulation 101"
10:03 - 10:15am	Team meetings in breakout rooms
10:15 - 10:27am	Cesar Lucio (Tec de Monterrey) "The Simulation Components"
10:27 - 10:40am	Haibin Zhang (Peking University) "Negotiation Tactics"
10:40 - 10:45am	Wrap up

## DAY 1 AUGUST 26

9:00 - 9:05am	Welcome
9:05 - 9:18am	Myriam Merchan (World Business Council on Sustainable Development)
9:18 - 9:20am	Move to two separate rooms
9:20 - 9:42am	Position Reports from a member of each team (2 minutes max)
9:42 - 9:52am	1st round of pledges and discussion of results
9:52 - 10:25am	Negotiations with other groups

Each country sends delegates to other country/region rooms to negotiate. Facilitator in each room will help guide the discussions.

- *EU: Rebekkah Markey-Towler (Melbourne) and Hironobu Iwabuchi (Tohoku)*
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- *"Other developing countries": Gitanjali Bedi (Monash) and Cristina Mateus (USFQ)*
- *China: Wei Huang (PKU) and Laura Falkenberg (CUHK)*
- *India: Monalisa Chatterjee (USC) and Nasrin Aghamohammadi (UM)*

10:25 - 10:40am	Closed team breakout session
10:40 - 10:52am	2nd round of pledges and discussion
10:52 - 10:54am	Move back to one main room
10:54 - 11:25am	Activist speeches by: <i>Zhenyu Zhang (PKU) on the climate activist perspective</i> <i>Rhys Jones (Auckland) on the indigenous rights perspective</i>
11:25 - 11:30am	Wrap up

## DAY 2 SEPTEMBER 2

9:00 - 9:05am	Opening Day 2
9:05 - 9:18am	Samuel Sellers (formerly US Agency for International Development)
9:18 - 9:20am	Move to separate rooms
9:20 - 10:05am	Breakout Sessions

Six breakout rooms organized by topic. Each team can send 1-2 reps to each room. Facilitator will moderate discussions/negotiations.

- *Deforestation: Amos Tai (CUHK) and Helena Varkkey (UM)*
- *Reforestation: Yuzuru Isoda (Tohoku) and Tze Kwan Fung (NUS)*
- *Clean Tech Industry: Hancheng Dai (PKU) and Meike Sauerwein (HKUST)*
- *Trading and Offsets: Adam Switzer (NTU) and Serena Sze Ring Pau (SEC/CLP)*
- *Population Control: Andrea Jimenez (Tec) and Yinzi Jin (PKU)*
- *Oceans: Jerome Hui (CUHK) and Joyce Ong (NTU)*

10:05 - 10:25am	Closed team breakout sessions
10:25 - 10:40am	3rd round of pledges and discussion
10:40 - 11:25am	Debrief and reflections
11:25 - 11:30am	Wrap up



# Universities and Partners



# OUR SPEAKERS

## Opening Ceremony



### Christopher Tremewan

Dr. Christopher Tremewan was elected as APRU's 4th Secretary General and took up the role from June 2011. Before heading the APRU International Secretariat, he was the Vice-President/Pro Vice-Chancellor (International) of the University of Auckland, New Zealand. He holds bachelor's and master's degrees in social anthropology from the University of Auckland, a master's degree in Public Administration from Harvard University, and a Ph.D. in political science (on Southeast Asian politics) from the University of Canterbury. He was elected a senior associate member of St. Antony's College, Oxford University, in September 1991 from where he published the book *The Political Economy of Social Control in Singapore* (Macmillan and St Martin's Press, 1994, reprinted 1996). He was a visiting fellow at Georgetown University in Washington, D.C. in 2003 and a visiting professor at Peking University in 2007 – 2008. In 1995 he became the founding director of the New Zealand Asia Institute, which he led until 1999. Previously, he held positions as a senior consultant, executive secretary, and research director for international development organizations based in Hong Kong, Singapore, and Tokyo. A specialist on social regulation in Southeast Asia, his research has recently focused on the internationalisation of higher education.



### Mellissa Withers

Dr. Mellissa Withers is Associate Professor at the Keck School of Medicine in the Department of Preventive Medicine. She is based at the USC Institute on Inequalities in Global Health. She is also the director of the Global Health Program of the Association of Pacific Rim Universities. She received a PhD from the Department of Community Health Sciences at the UCLA Fielding School of Public Health with a minor in cultural anthropology. She also earned a Master's in International Health from the Johns Hopkins Bloomberg School of Public Health and a BA in international development from UC Berkeley. Her research interests lie in community participatory research, mental health, gender-based violence, immigrant health, and global sexual and reproductive health. Dr Withers is the editor of two books: *Global Perspectives on Sexual and Reproductive Health Across the Lifecourse*, and *Global Health Leadership: Case Studies from the Asia-Pacific*. She has also published more than 50 scientific articles and serves on the editorial boards of six international global health journals. She also writes a blog on human trafficking titled *Modern-Day Slavery* for Psychology Today.



### Grace Honeywell

Grace Honeywell is a Global Engagement Program Coordinator with the University of Oregon's Division of Global Engagement. In her role she is responsible for the management, development and coordination of global programs and events for students, staff and faculty both from UO and the international higher education community alike. She has geographical experience in Latin America, South East Asia and parts of Europe. She's experienced in leadership development, human centered design thinking and facilitation. She's a UO alumna and has studied topics such as international human rights and justice, history, global health, violence against women, Spanish and political science.





## Bernhard Barth

Bernhard Barth is Human Settlements Officer at UN-Habitat's Regional Office for Asia and the Pacific, based in Fukuoka Japan where he oversees the country programmes in the Philippines, Lao PDR, and in six Pacific Island Countries. He also oversees UN-Habitat's Cities and Climate Change Initiative across the Asia and Pacific Region and is the focal point for urban planning and design, gender and capacity development. Prior to joining the Regional Office he worked for six years in UN-Habitat's headquarters in Nairobi, Kenya in different functions: supporting local government training initiatives and training tool development, supporting the global Cities and Climate Change Initiative and coordinating UN-Habitat's Partner University Initiative. Before joining UN-Habitat, Bernhard worked for UN ESCAP and for various NGOs in the UK, Papua New Guinea, Madagascar and Germany on a broad range of governance, rights and development issues. Bernhard holds Master's degrees in Economics and in Environmental Policy.



## Tracy Nilsson

Tracy Nilsson is Senior Director of the Global Environmental Program for Adidas; a position she has held since October 2015. She manages a team of 14 experts located in 9 countries across Asia, EMEA, North and Central America with cross-functional contribution and accountability. Tracy has the responsibility to develop and drive decarbonization and scale renewable energy within the supply chain, manage end to end chemical management, including zero discharge, stakeholder engagement and industry standard development. She holds a Master's degree in Environmental Studies and Sustainability Science from Lund University (LUMES), Sweden; a Bachelor in Environmental Studies and Economic Development from the University of Western Ontario, London Canada. Tracy has over 20 years' global sustainability experience in leading environmental and social issues for global multinational companies. Recognised for her expertise in developing and implementing global sustainability strategies, coupled with the ability to utilize sustainability concepts to drive business performance.

Tracy is currently serving as Elected Chair for the UNFCCC (United Nation Fashion Industry Charter for Climate). She is also the chair of the Steering Committee for the Manufacturing and Energy Group under the UNFCCC (United Nation Fashion Industry Charter for Climate). The UNFCCC goes beyond previous industry-wide commitments. It includes a target of 30% GHG emission reductions by 2030 and a commitment to analyze and set a decarbonization pathway for the fashion industry drawing on methodologies from the Science-Based Targets Initiative. The Steering Co. of the Charter works collaboratively to deliver on the principles, amplify best practices, strengthen existing efforts, identify, and address gaps, facilitate and strengthen collaboration among relevant stakeholders, and join resources and share tools to enable the sector to achieve its climate targets. This will be done through Working Groups, which will bring together relevant stakeholders, experts and initiatives in the fashion and broader textile sector. She is also an Advisory Board Member of GIZ - FABRIC.



## Ralph Chami

Dr. Ralph Chami is currently Assistant Director and Chief of Financial Policies Division in the Institute for Capacity Development at The International Monetary Fund. He developed the internal training curriculum for IMF economists as well as revamped the external training curriculum of member countries. Between 2009 and 2014, he oversaw the Regional Studies Division covering 32 countries in the Middle East and Central Asia Department, and Mission and Division Chief for Fragile states such as Egypt, Libya, Yemen, Sudan, South Sudan, and Somalia. He is the recipient of the 2014 IMF Operational Excellence Award for his field work on fragile states. His book "Macroeconomic Policy in Fragile States," co-edited with Raphael Espinoza and Peter Montiel, was published by Oxford University Press in March 2021. Before joining the IMF, Ralph was on the faculty of Finance Department, Mendoza Business School at the University of Notre Dame, USA. Ralph has a BS from American University of Beirut, MBA in finance and statistics from the University of Kansas and a Ph.D. in Economics from The Johns Hopkins University. His areas of expertise include fragile and conflict-affected states, climate change, remittances and migration, financial markets and banking.



## Eleanor Vandegrift

Eleanor “Elly” Vandegrift is the program director for Global Science Education Initiatives in the Division of Global Engagement at the University of Oregon. Trained as an ecologist, Elly has taught university-level life sciences courses, led STEM education professional development programs, and supported curricular and pedagogical reform to make science interesting, engaging, and relevant to improve students learning experiences. She has facilitated STEM education and communication workshops with US and global partners. As recognition of her teaching excellence, Elly has received four university and national pedagogy awards. She is the author of several articles about STEM education reform and professional development.



## César Lucio

Dr. César Lucio is a pediatrician and full-time pediatrics and Global Health professor at Tecnológico de Monterrey. Dr. Lucio is a FAIMER fellow and has a Post-Graduate certificate in Health Professions Education by Keele University in the UK. He has presented conferences and research projects in national and international settings like the Association for Medical Education in Europe, Reimagine Education, among others. He enjoys being a TEDx speaker with his TEDx Talk “Global Health: Personal attitude” and being part of local media counseling groups for TV and printed press. His expertise revolves around learning communities, clinical skills assessment, online education, competency-based education, faculty development and curriculum design. In 2019 he received the Teaching Excellence Award by the global consortium Universitas 21. He also forms part of the IFOM committee for the National Board of Medical Examiners.



## Haibin Zhang

Dr. ZHANG Haibin is Vice Dean and Professor of the School of International Studies, Peking University, Vice Dean of the Institute of Global Health and Development, Peking University and Director of the Center for International Organization Studies, Peking University. He received his Ph.D. in 1998 from the School of International Studies, Peking University. His major research areas are global environment and climate governance, China’s environmental diplomacy and international organizations. He is adviser to the Ministry of Commerce, China, on trade and environment issues; team member of the German foreign Office on climate and security; member of the Board of United Nations Association of China; member of Governing Council of China Society for Environmental Resources Law; member of Governing Council of China Environment Culture Promotion Association; member of Chinese National Committee for Future Earth. He has a long history of participation of international environmental negotiations and is the member of Chinese delegation for United Nations Environmental Assembly since 2014. He participated in China-U.S. 1.5 Track of Climate Expert Dialogue and China-France 1.5 Track of Climate Expert Dialogue between 2013-2015. He was the visiting scholar of the University of Oxford, Cornell University, Niigata University and Korea University. His major books include: Global Climate Governance and China’s Plans(2021), Climate Change and China’s National Security(2010), Environment and International Relations(2008), and International NGOs in Global Governance(2004). He published more than 100 articles in academic journals at home and abroad. He has also written articles for People’s Daily, Guangming Daily, PLA Daily and New York Times, etc.



# SPEAKERS & FACILITATORS

DAY 1



## Myriam Merchan

Myriam is a member of the World Business Council for Sustainable Development. Dedicated, passionate, and action-driven nature-junkie, working hard to build bridges at the intersection of business, social impact, and sustainability to ensure the future she desires for the generations to come. Currently, she supports organizational efforts to position the value of WBCSD contributions to society and to demonstrate that sustainable business can be a powerful force for societal good. She has worked for the United Nations, national decentralized governments in Central and Latin America, International Government Organizations, and global NGOs, managing regional networks and executing large-scale development projects and grants. She helps advance cross-sector collaboration efforts that enable economic and environmentally sustainable, and socially fair solutions. Her background also includes fieldwork with underserved communities and in red zones, fluency in French, English, Spanish, and certifications in business and project management.



## 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. Her research focuses on understanding sources of vulnerability; estimating current and future health risks of climate change; designing adaptation policies and measures to reduce the risks of climate change in multi-stressor environments; and quantifying the health co-benefits of mitigation policies. She has worked with multiple countries in Africa, Central America, Europe, Asia, and the Pacific in assessing their vulnerability and implementing adaptation measures. She is a lead author for the human health chapter of the Intergovernmental Panel on Climate Change (IPCC) 6th assessment report, and was a lead author on the IPCC special report on warming of 1.5°C, and the 4th US National Climate Assessment. She co-chairs the International Committee On New Integrated Climate change assessment Scenarios (ICONICS), facilitating development of climate change scenarios. Her scientific training includes an M.S. in toxicology and a Ph.D. and a Master of Public Health in epidemiology, and two years of postgraduate research at the London School of Hygiene and Tropical Medicine. She has edited four books on aspects of climate change and has more than 200 peer-reviewed publications.



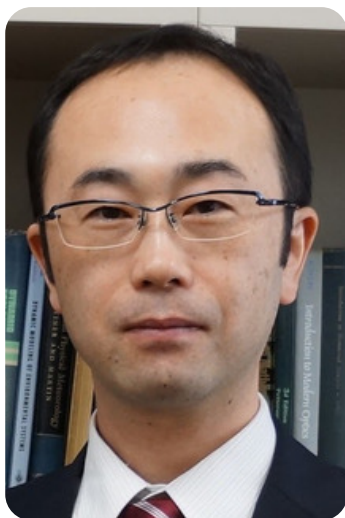
## Tamara Shapiro Ledley

Dr. Tamara Shapiro Ledley is a STEM education consultant, Earth and climate scientist, an EnROADS Climate Ambassador, an Adjunct Professor at Bentley University, and Secretary of the Education Section of the American Association for the Advancement of Science (AAAS). She was a 2017 Harvard Advanced Leadership Initiative Fellow where she explored her interests in improving climate change education efforts. She served as a senior scientist and chair of the Center for STEM Teaching and Learning at TERC for 20 years. She received her PhD from MIT in atmospheric and climate science and her BS from the University of Maryland in astronomy. Early in her career she led a research program in Earth system science and climate change at Rice University. She joined TERC in 1997 to pursue her science education interests. She led the development of the award winning Earth Exploration Toolbook. She led the development of the Climate Literacy and Energy Awareness Network (CLEAN) Collection of rigorously reviewed climate and energy educational resources and has chaired of the CLEAN Network, a professionally diverse community of climate and energy literacy stakeholders. She also led the EarthLabs project that focuses on development of curriculum materials, teacher professional development programs, and science education research focused enabling the effective teaching and learning of climate science. She is the 2013 American Geophysical Union's Excellence in Geophysical Education Awardee for her work in bring Earth science data and tools to teachers and students and for her leadership in climate literacy. She served as President and Chairman of the Board of Directors of the Earth Science Information Partners (ESIP). She currently serves on the CLEAN Network Leadership Board, the External Advisory Board of the Byrd Polar Research Center at The Ohio State University, the Board of Overseers of the Museum of Science Boston, and the Board of Directors of the Blue Hill Observatory.



## Rebekkah Markey-Towler

Rebekkah is the Research Fellow for Melbourne Climate Futures. She has a particular interest in environmental and climate change law, and has worked with Professor Jacqueline Peel at the Melbourne Law School on a number of projects including: devising a legal blueprint for corporate energy transition, strategic climate change litigation, and legal frameworks for waste management in the Pacific and in times of pandemic. She also provides research assistance on the Domestic and Family Violence Bench Book and works as a tutor at the University's residential colleges. Previously, Rebekkah spent a year teaching English in Japan and spent 18 months as an associate to a judge at the Federal Court of Australia. She holds a Bachelor of Arts/Laws (Hons, with majors in International Relations and Political Science) from the University of Queensland.



## Hironobu Iwabuchi

Dr. Hironobu Iwabuchi has been Associate Professor in Graduate School of Science at Tohoku University, Sendai, Japan since 2011. His research fields focus on atmospheric radiation, remote sensing of atmosphere, and climate science. He received a doctor degree in geophysics from the Graduate School of Science at the Tohoku University, Sendai, Japan, in 2001. He worked as a research scientist at the Frontier Research System for Global Change and the Japan Agency for Marine-Earth Science and Technology, Yokohama, Japan. His expertise is on modeling and numerical simulation of three-dimensional radiative transfer in cloudy atmosphere, inverse theory, and statistical analyses in meteorology and climatological studies. He received the Yamamoto-Syono Award from the Meteorological Society of Japan in 2007. In 2010, he worked at the Department of Atmospheric Sciences, Texas A&M University as an assistant research scientist. He has served as an editor of the Scientific Online Letters on the Atmosphere (SOLA) published by the Meteorological Society of Japan and Progress in Earth and Planetary Science (PEPS) of the Japan Geoscience Union. He has been a referee for many international journals and served on various scientific review panels. His current research interests are on modeling of atmospheric radiative transfer, remote sensing of clouds and roles of atmospheric particles in the Earth's climate system. The research is conducted in his group and in collaboration with domestic and international research groups.



## Adell Amos

Adell L. Amos holds the Clayton R. Hess Professorship at the University of Oregon School of Law and serves as the Executive Director of the UO's Environment Initiative. Joining the UO in 2005, Amos served in the Obama Administration as the Deputy Solicitor for Land and Water Resources at the U.S. Department of the Interior from 2008-11, and returned in 2011 to serve as the Associate Dean for Academic Affairs at the UO School of Law. She teaches regularly in the nationally ranked Environmental and Natural Resources Law Program. Her most recent research focuses on the integration of law and policy into hydrologic and socioeconomic modeling for the Willamette River Basin through a multi-institutional, interdisciplinary effort funded by the NOAA and the National Science Foundation. Professor Amos earned her B.A in 1995 from Drury College and her J.D. in 1998 from the University of Oregon (Coif).





## Chris Boyer

Chris Boyer is a researcher at the Center for Health and the Global Environment (CHanGE) and doctoral student in the Department of Environmental and Occupational Health both at the University of Washington in Seattle, Washington. His work centers on the health impacts and adaptation to climate change, with a focus on Southeast Asian and Pacific Island countries, where he collaborates with governments and other stakeholders to better understand and develop plans for the health risks of climate variability and change. Particularly, he is interested in the potential of climate-resilient health systems to protect and improve population health by enhancing the capacity to anticipate, prepare for, respond to, and recover from climate-related exposure, as well as the implementation and evaluation of health adaptation interventions, policies, and programs. In addition to his current position, he serves as Chapter Scientist for Chapter 7: Health and Well-being for the Working Groups II (Impacts, Adaptation, Vulnerability) contribution to the IPCC Sixth Assessment Report, as well as a technical consultant for the World Health Organization on several climate change and health projects.



## Donna Green

Associate Professor Donna Green was a founding member of the Climate Change Research Centre, at the University of New South Wales in Sydney, Australia. She is an Associate Investigator of the ARC Centre of Excellence for Climate Extremes; and an affiliate of the NHMRC Centre for energy, air pollution and health Research. As an interdisciplinary environmental scientist, she conducts research on climate impacts, energy policy, public health and air pollution. Donna was a contributing author in the UN World Energy Assessment and for the IPCC's Fourth and Fifth Assessment Reports.

She leads a national researcher network, the Climate Health Network [www.climatehealth.info](http://www.climatehealth.info) and has just started a new project [www.cleanairschools.com.au](http://www.cleanairschools.com.au)



## Gitanjali Bedi

Gitanjali Bedi is a senior lecturer and educational researcher with Monash Sustainable Development Institute, Monash University. She teaches post graduate and undergraduate units in the Business School and is responsible for design and implementation of formal accredited courses and extra-curricular education initiatives on sustainable development (organisational sustainability, climate change, environmental sustainability, responsible business practice, sustainable healthcare, SDGs, sustainability leadership). Her research interests include: sustainability education, transformative pedagogy, sustainable healthcare education, climate change and workforce upskilling.

Gitanjali's interdisciplinary background spans: sustainability education and training; corporate responsibility and sustainability reporting; and international community development working on capacity development, food security, intellectual property rights and gender. She has worked all over the world with organisations including United Nations Development Program (Afghanistan, Latin America, Central & South East Asia), IUCN (Switzerland), LEAD International (UK), Swinburne University of Technology (Australia) and Navdanya (India) - working alongside corporates, governments, and not-for-profits to build the transformative change and leadership capacities of people, organisations and business to create positive impact.

Gitanjali holds graduate qualifications in Corporate Environmental and Sustainability Management (Monash), Education and Training for Sustainability (Swinburne) and International Community Development (Massey, New Zealand). She recently was trained by former US Vice-President Al Gore as part of the Climate Reality Leadership Project. In 2019, Gitanjali was recipient of Vice-Chancellor's Citation for Outstanding Contribution to Student Learning (Monash University), and in 2021, Australian Award for University Teaching.



## Jamie Hosking

Dr. Jamie Hosking is a public health physician by training. He teaches public health and health protection at The University of Auckland. His research interests are in the area of transport, climate change and health equity. His current research models the impacts of transport policy in Auckland on health, health equity and greenhouse gas emissions.



## Cristina Mateus

Dr. Cristina Mateus' main focus is on climate change and anthropogenic impacts on water resources. Managing water resources to meet both human and environmental needs under socioeconomic and climate changes in areas such as the Galapagos Islands poses great challenges for water managers. She evaluates and develops sustainable alternatives to address water quality and water quantity challenges as well as climate mitigation and adaptation actions for the Galapagos Islands. Her current work particularly focuses on:

- **Resilient urban development in the Galapagos Islands:** The main goal of this project is to increase Galapagos resiliency by reducing vulnerabilities to changes in precipitation and population growth that impact public health, water quality, and the environment, focusing on wastewater and storm water systems.
- **Evaluating Water Quality in Galapagos:** The main goal of this project is to investigate how the different river and stream systems are affected by changes in temperature and precipitation under different greenhouse gas emission scenarios and evaluate how sub-basin characteristics, including elevation, hydrogeology, intensity of water demands, groundwater interactions, contribute to hydrologic sensitivity to climate variability and water scarcity.
- **Vulnerability of Agricultural Water Systems in Galapagos:** The main goal of this project is to examine water production changes for the agricultural sector in the Galapagos Islands under conditions of change and high uncertainty.
- **Galapagos Emission Inventory and Model Development:** The goal of this project is to develop an air pollutant and greenhouse gas (GHG) emission model for environmental management and decision-making in the Galapagos Islands. The model will be accessible to the public and will provide valuable information for the generation of public policies, as well as promoting greater citizen involvement, participation and awareness of environmental and climate impacts in the Galapagos Islands.



## Wei Huang

Professor Wei Huang received her Doctor of Science (ScD) degree from the Department of Environmental Health at Harvard T.H. Chan School of Public Health in 2003. She then joined the Health Effects Institute in Boston overseeing exposure assessment and environmental epidemiology studies, particularly in Asian cities, between 2003-2007. Since joining Peking University in 2007, her research has focused on examining the underlying pathways linking air pollution to cardiopulmonary and metabolic diseases in various age and disease groups. She has also conducted population studies largely oriented by assessing the efficacy of population air pollution exposure reductions, as well as on evidence-based health intervention strategies at local, national and global scales. Her research has been published in leading clinical epidemiology and environmental health journals, including JAMA, AJRCCM, EHP, Circ, CircRes, ATVB, Env Int, PF&T, etc. In recent years, she has served as advisors or working group members on global and national evidence assessment and guideline development for multiple national and international panels, including the World Health Organization, International Agency for Research on Cancer, National Health Commission and Ministry of Ecology and Environment of China. She also serves as associate editor for Science of the Total Environment journal, and editorial board member for Environmental Epidemiology.





## Laura Falkenberg

Dr. Laura Falkenberg is a marine biologist and ecologist whose research and teaching focuses on global change biology. Laura has a strong background in considering the biological impacts of both global stressors – such as elevated temperature and ocean acidification – as well as more localised impacts – such as nutrient pollution and species removal. To consider such impacts Laura often develops and implements novel methods such as mesocosm facilities, measurement techniques, and theoretical frameworks. Increasingly, Laura also looks at how the identified impacts move through ecosystems and impact human societies by driving changes to, for example, our economies and health. Laura is currently an Assistant Professor at the Simon F.S. Li Marine Science Laboratory, School of Life Sciences at the Chinese University of Hong Kong (Hong Kong SAR, China). Before moving to Hong Kong, Laura studied at The University of Adelaide in Australia and then worked as a Post Doctoral Research Associate at The University of Adelaide (Australia), University College London (Australia), University of Gothenburg (Sweden), and Norwegian Institute for Water Research (Norway). Laura is also the Contributing Editor for Limnology and Oceanography Bulletin. Laura is an active member of the Australian Marine Sciences Association (AMSA), Association for the Sciences of Limnology and Oceanography (ASLO), and British Ecological Society (BES).



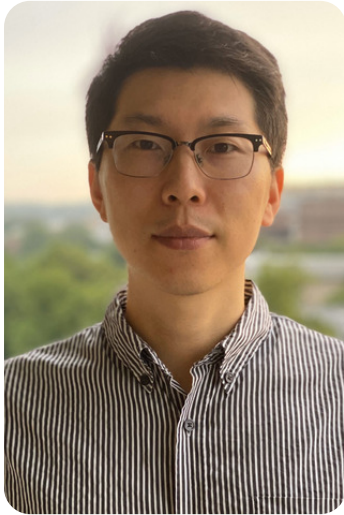
## Monalisa Chatterjee

Dr. Monalisa Chatterjee is a geographer with expertise in adaptation and environment policy. Currently she is an Assistant Professor (teaching) in the Department of Environmental Studies at University of Southern California. Prior to this appointment she worked as the Adaptation Lead in the science team of the Technical Support Unit with the Working Group II Intergovernmental Panel on Climate Change (IPCC) Fifth Assessment Report. She has also worked as an Environmental Policy Analyst with UNDP, New York. Her current research interests are in examining the impact of climate and societal change on the distribution of risks, vulnerability and resilience, integrating methods using multidisciplinary approaches, and qualitative and quantitative consolidation of findings on adaptation to develop integrated policy frameworks of vulnerability reduction and sustainable adaptation. Dr. Chatterjee holds a Doctorate in Geography from Rutgers University.



## Nasrin Aghamohammadi

Dr. Nasrin Aghamohammadi is an Associate Professor of Environmental Health Engineering and Public Health Expert, University of Malaya, Kuala Lumpur, Malaysia. Currently, she is heading the Occupational and Environmental Health Unit. Her areas of expertise revolve around multidimensional aspects of Biomass Burning, Air Pollution, Environmental Health and Urban Heat Island studies. She has an extensive background in pure and applied environmental engineering research associated with air, water, wastewater, solid waste and soil pollutants. She has published many impactful peer-reviewed journal articles and books on forest fires and Climate Change, UHI, Thermal Comfort, waste treatment and health impacts. She is an associate editor of the journal International Journal of Sustainable Cities and Societies. This strategic collaboration has enabled her to communicate her research knowledge and findings at various levels of stakeholders for the development standard guidelines and policy improvements. Her research focus is mainly on Sustainable Development Goals (Goals 3,6,7, 11 & 13).



## Zhenyu Zhang

Dr. Zhenyu Zhang received his Ph.D. in Epidemiology from Zhejiang University School of Public Health in 2016. He finished the post-doc training from the Department of Epidemiology at Johns Hopkins University Bloomberg School of Public Health from 2016-2021. Dr. Zhang is currently an assistant professor at the Department of Global Health of Peking University School of Public Health. Dr. Zhang's work is focused on the study of the adverse health effects of air pollution, in particular in evaluating the role of environmental exposures in the development of cardiovascular disease. Dr. Zhang has published seminal papers showing that particulate matter air pollution exposure has a measurable impact on cardiovascular risk factors, clinical outcomes, and mortality. In addition to his work in environmental epidemiology, Dr. Zhang has made important contributions in estimating the individual air pollution exposure with statistical models. Dr. Zhang using the novel machine-learning approaches that incorporated meteorological measurements, land-use terms, satellite-based measurements, and simulation outputs from a chemical transport model to estimate daily concentrations of PM<sub>2.5</sub> in China, the United States, and South Korea. Dr. Zhang has enjoyed looking at biologic risk factors as well as innovative epidemiologic methods and statistical analysis in the conduct of air pollution-health research. The ultimate objective of Dr. Zhang's work is to decrease the enormous burden of air pollution-related diseases through developing the scientific basis for behavioral and policy interventions.



## Rhys Jones

Dr. Rhys Jones (Ngāti Kahungunu) is a Public Health Physician and Senior Lecturer in Māori Health at the University of Auckland, Aotearoa/New Zealand. His research addresses Indigenous health and health equity with a particular focus on environmental influences on Māori health and wellbeing. He is a passionate advocate for action on the social determinants of health, equity and Indigenous rights. Rhys was the founding Co-Convenor of OraTaiao: The New Zealand Climate and Health Council, a health professional organisation focusing on the health challenges of climate change and the health opportunities of climate action.



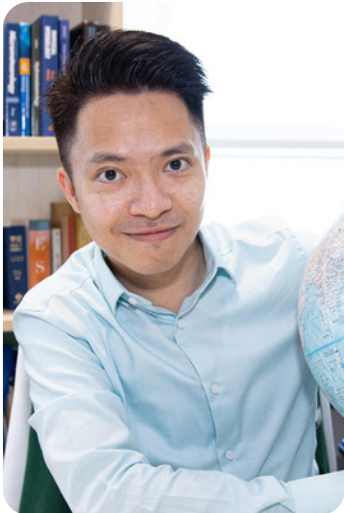
# SPEAKERS & FACILITATORS

## DAY 2



### Sam Sellers

Dr. Sam Sellers is a researcher who explores issues at the intersection of demography and the environment. He completed a PhD from the University of North Carolina at Chapel Hill in 2017, a postdoctoral fellowship from the Center for Health and the Global Environment at the University of Washington in 2019, and most recently served as an American Academy for the Advancement of Science (AAAS) Science and Technology Policy Fellow at the U.S. Agency for International Development. In his free time, Sam enjoys running, curling, and listening to traditional fiddle tunes.



### Amos Tai

Dr. Amos P. K. Tai is an Associate Professor in the Earth System Science Programme of the Faculty of Science at The Chinese University of Hong Kong (CUHK). Amos obtained his B.Sc. from Massachusetts Institute of Technology (MIT), Ph.D. in Environmental Science and Engineering from Harvard University, and was a Croucher Postdoctoral Fellow at MIT. Amos specializes in atmospheric chemistry and physics, agricultural and forest meteorology, and biosphere-atmosphere interactions. His research combines high-performance Earth system modeling and multivariate statistical analysis of observations to examine the complex interactions between ecosystems and the atmosphere, addressing pressing issues such as the impacts of air pollution and climate change on ecosystems and food security, and how agriculture and forests can be better managed to mitigate environmental impacts. His work has been published in top-ranking journals in the atmospheric and environmental sciences, and earned him the World Meteorological Organization Research Award for Young Scientists, Research Grants Council (Hong Kong) Early Career Award, and founding membership of the Hong Kong Young Academy of Sciences. Amos is also a passionate educator, having received the CUHK Vice-Chancellor Exemplary Teaching Award. Amos delights in promoting science to the public in various venues and media outlets, especially on climate change, environmental sustainability, and faith and science. He has also provided professional consulting services to various government departments.



### Helena Varkkey

Dr. Helena Varkkey is a Senior Lecturer at the Department of International and Strategic Studies, University of Malaya in Kuala Lumpur, Malaysia. Her research focuses on the governance of transboundary pollution or 'haze' in Southeast Asia. More broadly, she seeks to understand how economic development can be reconciled with environmental sustainability in this resource-rich region. The findings from her PhD at the University of Sydney has been published as a book in 2016 as part of the Routledge Malaysian Studies Series, entitled "The Haze Problem in Southeast Asia: Palm Oil and Patronage". She has consulted for the Ministry of Foreign Affairs, the Academy of Sciences, Malaysia and the ASEAN Secretariat on these topics, and continues to undertake research in this field. She is currently a Visiting Senior Research Fellow at the Asia Research Institute, National University of Singapore.



## Yuzuru Isoda

Dr. Yuzuru Isoda is Associate Professor at Tohoku University (Japan), in human geography. His research interests include human migration, population changes, and rural changes. He uses maps, Geographical Information System (GIS) and quantitative analyses in his research. He studied in Tohoku University and in London School of Economics. He has previously worked in Ritsumeikan University and in Ritsumeikan Asia Pacific University (both in Japan). Married, with a daughter and a dog, he spends most of his time outside work practicing the violin and piano.



## Tze Kwan Fung

Dr. Tze Kwan FUNG is an ecologist with ten years of experience in field research in Singapore. Her research focuses on ecological applications to inform conservation decision making, specialising in the feeding ecology and seed dispersal of the common palm civet (*Paradoxurus musangus*), and quantifying ecosystem functions and services in forest and human-modified landscapes. Her current research focuses on understanding the importance of biodiversity for climate change mitigation. She is interested in plant-animal interactions, specifically on linking seed dispersal ecology to forest restoration, how these species interactions may influence carbon stock in tropical rainforests in Southeast Asia, and how this knowledge can be translated and incorporated into policy decision making process around climate change action. Tze Kwan is also active in engagement with stakeholders, public education and youth development for biodiversity conservation and sustainable development. She is a member of the IUCN Small Carnivore Specialist Group, a wildlife consultant, and a member of the organising committee of the NUS Toddycats!, the volunteer arm of Lee Kong Chian Natural History Museum. Tze Kwan is also a research associate at the Department of Biological Sciences, National University of Singapore (NUS) Centre for Nature-based Climate Solutions, which seeks to produce cutting-edge science to inform climate policies, strategies and actions in Singapore and the Asia-Pacific region.



## Hancheng Dai

Dr. Hancheng Dai is an Assistant Professor and Chairman of the Department of Environmental Management in the College of Environmental Sciences and Engineering at Peking University. He is also a joint appointment research fellow of the Institute for Global Health and Development at Peking University. Dr. Dai's research focuses on green & low-carbon transformation and human & planetary health at the local, national and global scales. By developing and applying the state-of-the-art integrated assessment model, key questions are explored on the mitigation costs of achieving ambitious climate targets and their co-benefits on improvements in air pollution, human health and resource efficiency. Dr. Dai ranked as the World's Top 2% most-cited scientists released by Stanford University in 2020. His main publications, including 8 ESI 1% highly cited papers, are on energy economics and policy related journals. Dr. Dai is active in multiple international and domestic science programs by serving as the Lead Author of the Global Environment Outlook Sixth Edition (GEO-6) for Cities, Contributing Author of the IPCC 6th Assessment Report, Global Burden of Disease (GBD) Collaborator. He is also the Standing Committee Member of Branch of Ecological and Environmental Systems Engineering, Systems Engineering Society of China, and Committee Member of City Air Integrated Management and Low Carbon Action Partnership of China, as well as Committee Member of Branch of Climate Change of Chinese Society for Sustainable Development. He has also provided professional consulting services to various organizations such as the Energy Foundation and Environmental Defense Foundation.





## Meike Sauerwein

Dr. Meike Sauerwein is from the HKUST Division of Environment and Sustainability. Dr Sauerwein has been actively participating in sustainability campaigns across HK's different universities. Her wide-ranging expertise covered Product Sustainability, Environmental Contaminants in Consumer Products, Sustainable Consumption & Consumer Behavior, Life-Cycle-Assessment Environmental, and Labeling Sustainability Education - <https://envr.ust.hk/our-division/people/faculty-staff/meike.html>



## Adam Switzer

Dr. Adam D. Switzer holds concurrent positions as Associate Professor at the Asian School of the Environment, Assistant Dean (Development) at the College of Science, Deputy Director of Undergraduate Research Experience on Campus (URECA) and Principal Investigator at the Earth Observatory of Singapore (EOS) at Nanyang Technological University, Singapore. He is a broadly trained coastal geoscientist and the overarching driver of his research is a desire to use interdisciplinary geoscience to solve contemporary problems at local, regional and international scales. His primary research interest lies the integrated study of catastrophic marine inundation events (tsunami or large storms), sea level changes, coral reefs and tropical coasts and investigating the relationship between coastal evolution and climate change in coastal systems. After obtaining a BSc and PhD in Geosciences from the University of Wollongong, Australia he accepted an Endeavour Australia Cheung Kong fellowship to study at The University of Hong Kong where he held positions as Post-Doctoral Fellow and Research Assistant Professor. His research program at the Earth Observatory of Singapore aims to facilitate the development of safer and more sustainable communities in Asia. His research group focusses on Asia and currently involves collaborations with people from ten Asian nations. Adam is a former Executive Council member of the Asia Oceania Geoscience Society and he has been PI or Co-I on 17 grants in Singapore (worth >\$17.5M). He has authorship on >95 peer-review publications. He is a founding editorial board member of the Journal Communications Earth and Environment from Nature. Adam is also passionate about science communication and has appeared in documentaries for Mediacorp (Singapore), Curiosity Channel (Discovery) and BBC (UK) and delivered invited talks a numerous international venues including the World Economic Forum.



## Andrea Jiménez

Dr. Andrea Jiménez is a gynecologist from Aguascalientes, Mexico. Her passion for global health was ignited by her experience working at Partners In Health in southern Mexico. There she served as the only clinician in a remote mountainous community. Everyday she witnessed the barriers to health that poor and marginalized communities face. She earned a diploma in Global Health and Social Medicine and is now a professor of Global Health at the university Tecnológico de Monterrey. Her research has focused on teenage pregnancy and their social determinants of health. She is currently working for Pivot, a global health non profit in Madagascar, as the Maternal and Reproductive Health Clinical Mentor. In this role she is working to build the capacity of local health professionals and designing programs to improve maternal health outcomes. This position has allowed her to step out of the operating room and back into rural villages. In Madagascar, she has observed many of the same barriers to health that were present in Mexico and is working to implement solutions that are adapted to the local context. In her free time she enjoys cooking vegetarian meals and watercolor painting.



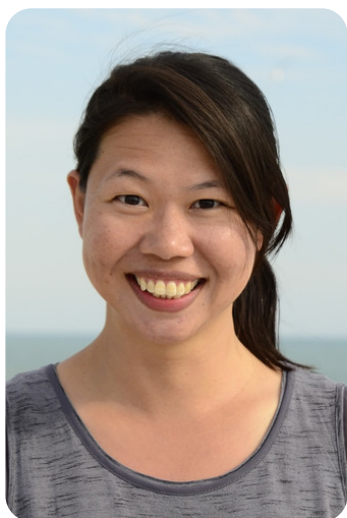
## Yinzi Jin

Dr. Yinzi Jin is assistant professor and associate researcher of the Department of Global Health at Peking University School of Public Health. Dr. Jin received her PhD in health systems and policy from Peking University China Center for Health Development Studies in June 2018. Dr. Jin completed her postdoctoral fellowship in the Department of Global Health at Peking University School of Public Health in June 2020. Dr. Jin's research areas include global health, health systems, and implementation Science. Her studies focus on implementing evidence-based interventions to improve the quality of care and outcomes for patients with chronic noncommunicable disease and its acute episodes in low and middle-income countries, from the perspectives of health systems strengthening, using the tools of implementation science. She has studied a wide range of innovations including quality improvement practices, care management practices, clinical information systems, and integrated healthcare delivery models. Dr. Jin is leading three national-level research projects related to implementation of quality improvement initiatives and has participated in 13 research projects as major investigator. She was awarded the Innovation Research Award by Youth Committee of Health Management of China Preventive Medicine Association. She has served as youth member of BMJ Quality & Safety (Chinese), and advisory board member of Shenzhen Municipal Health Committee for the project "Develop and Optimize Emergency Medical System and Implement Medical Priority Dispatch System."



## Jerome Hui

Prof. Jerome Hui is the Associate Professor of the School of Life Sciences, The State Key Laboratory of Agrobiotechnology (Partner Laboratory in The Chinese University of Hong Kong) and Simon FS Li Marine Science Laboratory of the School of Life Sciences. He is also the Director of Biology Programme, and members of Cell and Molecular Biology Programme, Environmental Science Programme, and Molecular Biotechnology Programme of the School of Life Sciences. He received his DPhil from University of Oxford, and postdoctoral training from University of Manchester and University of Oxford. His research interests can be found at: <https://www.sls.cuhk.edu.hk/index.php/faculty-and-staff/teaching-staff/26-sls/faculty-and-staff/teaching-staff/105-professor-hui-ho-lam-jerome>



## Joyce Ong

Dr. Joyce Ong is a marine ecologist who grew up in Singapore and got her bachelor's degree (BSc) with first class Honours from the University of Melbourne in Australia. She then spent a couple of years working as a marine ecologist in Melbourne, followed by a research position in Singapore at the Tropical Marine Science Institute at the National University of Singapore. Through the diverse projects she was involved with, Joyce gained more experience with scientific diving and fieldwork, seaweeds, intertidal invertebrates, biofouling and coral reefs. Joyce did her PhD on climate-growth relationships in tropical fishes at the University of Western Australia. Upon graduation, she moved to the US, where she finished a postdoc with Associate Professor Malin Pinsky's group at Rutgers University. For this postdoc, she investigated temporal and spatial synchrony of marine fisheries in the California Current Ecosystem. Joyce is currently an Asst. Prof. in the Asian School of the Environment at Nanyang Technological University, where she is passionate about fish otoliths (ear stones), climate change, Southeast Asia and the interplay between coupled natural and human systems.





## Shannon Gibson

Dr. Shannon Gibson teaches courses at the University of Southern California on global environmental politics, globalization, global public health, non-state actors and social movements. She received her Ph.D. in International Studies from the University of Miami in 2011. Her research focuses on the role of civil and “uncivil” society participation in transnational politics. As part of her dissertation, “Dynamics of Radicalization: The Rise of Radical Environmentalism against Climate Change,” she conducted field and participant observation research at a variety of international summits, including World Social Forums in Brazil and Senegal, the 2010 G20 Summit in Pittsburgh, and the United Nations climate negotiations in Copenhagen, Cancun and Paris in order to assess the impact of environmental social movements and activist networks.



## Serena Sze Ring Pau

Serena currently manages the sourcing and development of digital products at CLP Smart Energy Connect ([www.clpsec.com](http://www.clpsec.com)) and has launched 20 products in the new Innovation Hub within the first year. Prior to her appointment as Head of Product Management at CLP Innovation Hub, Serena is involved in starting her own tech start-up, Ozmo, and has been heavily involved in hardware and software development as well as product marketing in the past 14 years. Before Ozmo, Serena managed an industrial design studio in Hong Kong where she was the Director of the Product Marketing Department. Her passion in making great products that truly resonate in the market has led her team in winning an IF Design award and managing multiple launches in the US market. Read more about Serena’s innovation journey here: <https://www.stateofinnovation.news/people-of-innovation/people-of-innovation-serena-pau>

# CONTRIBUTORS

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## Alistair Woodward

Dr. Alistair Woodward is a public health doctor and epidemiologist at the University of Auckland in New Zealand. He has worked for a range of international agencies, including WHO, UNEP and the Ford Foundation. His climate change interests go back to the 1990s, when the idea that human activity might disrupt planetary systems was regarded as rather odd, and hardly deserving serious attention. The world has changed, thank goodness.



## Gonzalo Rivas

Dr. Gonzalo Rivas is interested in understanding the impact of biotic and abiotic variables on the plant communities of tropical forests in Ecuador, particularly in the Yasuní Biosphere Reserve, Galapagos and in the high Andean forests of the North of the country. His current projects include: 1) mapping the existing diversity in these areas using advanced technologies and remote sensing; 2) using spatially explicit results as the tools endorsed by the environmental authority of Ecuador, 3) understand in the short and long term how variation in climate at different spatial and temporal scales affects plant communities in his regions of interest.



## Litiana Talake

Litiana Talake is the Adaptation Policy Adviser for the Climate Change Department in the Ministry of Finance for the Government of Tuvalu.





## Kathryn Bowen

Dr. Kathryn is Professor and Deputy Director at Melbourne Climate Futures, and Professor - Environment, Climate and Global Health, at the Melbourne School of Population and Global Health, University of Melbourne. She is an Affiliate Scholar at the Institute for Advanced Sustainability Studies, Potsdam, Germany ([iass-potsdam.de](http://iass-potsdam.de)). Kathryn works at the nexus of global environmental change, global health and governance issues primarily in low and middle-income settings. She holds a PhD (ANU), MSc (International Health), DTMPH (Humboldt & Frei Universities, Berlin) and BA/Psyc (Hons) (Newcastle).

Kathryn has worked in global health research and policy since 1999, across public, private and university sectors. She is a Senior Research Fellow within the Earth System Governance project, and Alumni of the Centre for Sustainability Leadership.

Kathryn holds a number of key international leadership roles, including as Lead Author on the Intergovernmental Panel on Climate Change (IPCC) 6th Assessment Report (Ch. 7, Health), the Science Committee of the World Adaptation Science Program (UNEP); the Steering Committee of the Future Earth Health Knowledge Action Network (Health KAN), and the Planetary Justice Taskforce as part of the Earth System Governance network.

Kathryn is regularly commissioned by international bilateral and multilateral agencies (eg. WHO, DFAT, UNEP, UNDP, ADB, GIZ, DFAT) to co-design solutions for sustainable futures, particularly in relation to planetary health. She works passionately to empower colleagues and decision-makers and collaborate with diverse stakeholders to drive positive outcomes.





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**We do not inherit  
the earth from our  
ancestors, we borrow  
it from our children.**

**Chief Seattle**



# HOW TO REGISTER?

Watch the instructional video on this link:

<https://bit.ly/APRUClimateChangeCanvasRegVid>



## WRITTEN INSTRUCTION

1. Go to <https://canvas.instructure.com/login/canvas>

**\*\*NOTE:** It MUST be Canvas.instructure – if the URL says canvas.learn then you are on the WRONG version of the site.

If your university uses Canvas - you still need to make a new account with THIS version of Canvas.

2. In the top right corner it says “Need a canvas account? Click here, it’s free”

3. Click that link and it will take you to the following web page:

<https://canvas.instructure.com/register>

4. Click on the student sign up

5. Complete the required information and use the join code: XCFYXT

**\*\*AGAIN** – it must be canvas.instructure for this to work!

6. Once you complete the sign up you should be granted access to the site.



<https://apruglobalhealth.org>



<https://apru-scl.uoregon.edu>