

## **Master's Thesis**

### **Joint MSc, *Geography of Environmental Risks and Human Security***

#### **Appointment of Examiners/Supervisors**

In accordance with §20 & §21 (2020 Examination Regulations, 7 September 2020),

- Students must indicate their intended thesis supervisor when registering their master's thesis. They need to approach their intended supervisor directly to discuss the subject, and must obtain approval of their thesis proposal from her/him.
- Master's theses are evaluated and graded by two examiners. Both examiners need to be on the lists below. If the first examiner (supervisor) is from GIUB (University of Bonn), the second examiner should be from UNU-EHS, and vice versa.
- The first examiner is the thesis supervisor. The student is entitled to propose a second examiner; however the final decision is made by the GIUB Examination Office. If no second examiner is suggested by the student, the Examination Office will appoint one once the master's thesis has been submitted in line with the Examination Regulations.

### List of possible Examiners/Supervisors

GIUB – University of Bonn	Research themes	Regions of expertise
<a href="#">Dr. Rainer Bell</a>	Integrative natural hazard and risk analysis and management, cascading hazards and risks; Mountain geomorphology, landslides, floods, permafrost; Early warning systems; GIS, Remote sensing and spatial analysis in general	Himalayas (Nepal), Andes, Austria, Germany, Norway, Iceland, China
<a href="#">Prof. Dr. Jessica Budds</a>	Development geography, political ecology, environmental governance, neoliberalisation; Water and sanitation, urban settlements, infrastructure and services, agriculture, mineral extraction, hydroelectric power, ecosystem services; Qualitative methods	Latin America (Chile, Brazil, Peru), South Asia (India), East Africa (Kenya, Ethiopia)
<a href="#">Dr. Carsten Butsch</a>	Health, Urbanisation, Periurbanisation, Risk, Climate Change, Migration	South Asia, Germany
<a href="#">Dr. Juliane Dame</a>	Food Security; Water Governance; Sustainable Development; Environmental Resources Management; Climate Change Adaptation; Political Ecology; Environmental Governance; Agri-Food Studies	Germany, Latin America, South Asia
<a href="#">Prof. Dr. Mariele Evers</a>	Ecohydrology and Water Resource Management, scenario analysis	Brazil, West Africa, South India
<a href="#">Dr. Alexander Follmann</a>	Urban and Regional Geography, Peri-Urbanisation, smart cities, agricultural change, sustainability transition, participation	India, East and Southern Africa, Germany
<a href="#">Prof. Dr. Christian Geiss</a>	Machine Learning; Deep Learning; Natural Hazard Risk and Impact Assessment; Earth Observation Techniques	Worldwide
<a href="#">Dr. Clarissa Glaser</a>	Hydrological process research; Hydrological modeling; Hydrological field studies; GIS-based hydrological investigations; Groundwater-surface water exchange in streams	Southwest Germany, Eifel, Ardennes, USA (Northwest)

<a href="#">Prof. Dr. Kathrin Hörschelmann</a>	Critical Security Studies; Cultural Geography; Migration; Childhood and Youth	Western and Central-Eastern Europe; post-socialist countries
<a href="#">Prof. Dr. Britta Klagge</a>	Energy and infrastructure	Kenya, Namibia
<a href="#">Prof. Dr. Julian Klaus</a>	Catchment hydrology; Hydrological process research; Hydrological modeling; Isotope hydrology; Ecohydrology	Eifel/Ardennes, Southwest Germany, USA (Northwest, Southeast), Canada (Rocky Mountains)
<a href="#">Prof. Dr. Zbyněk Malenovský</a>	Optical remote sensing observations and modelling, quantitative imaging spectroscopy of vegetation	Australia, Antarctica, European countries
<a href="#">Prof. Dr. Detlef Müller-Mahn</a>	Development Geography, Political Ecology, Geographies of the Future, risk research	Middle East and Africa
<a href="#">Prof. Dr. Lisa Schipper</a>	Adaptation to Climate Change, Socio-cultural dimensions of vulnerability; development geography	Global South
<a href="#">Dr. Michael Schmidt</a>	LandUse/LandCover; Image classification; Time Series analysis; Machine Learning	
<a href="#">Prof. Dr. Lothar Schrott</a>	Natural hazards and risks, sediment dynamics, permafrost and periglacial processes, mass movements	New Zealand, Argentina, European Arctic

UNU-EHS	Research themes	Regions/Countries of expertise
<a href="#">Sinja Buri</a>	Climate Disaster Risk Finance & Insurance (also interlinked with Gender, Social Protection, Anticipatory Action discussions); Financial Inclusion; Disaster Risk Financing Solutions and their Implementation	Africa, Pacific, Caribbean, Southeast Asia (Philippines)
<a href="#">Dr. David Daou</a>	AI; Climate modelling; Remote sensing; Drought detection; Data science and analysis; Earth Observation; Programming	Americas (Canada, USA, Mexico, Guatemala, Honduras, Peru, San Salvador); Africa (Ethiopia, Nigeria, Niger); Asia (China, Vietnam, Thailand, Nepal); Middle East (Qatar, Saudi Arabia, Emirates, Bahrein, Syria, Lebanon); Western Europe + Hungary, Cyprus
<a href="#">Dr. Flávia Guerra</a>	Mixed-methods research on mindset shifts; New narratives and behavior changes towards urban sustainability transformations in Latin America; Multilevel climate governance approaches; Just transition	Latin America (Argentina, Brazil, Mexico); Europe (Portugal, Germany, France, UK)
<a href="#">Dr. Michael Hagenlocher</a>	Understanding risks (incl. complex, cascading, systemic risks) linked to climate change and (multiple) hazards; floods; droughts; vulnerability and risk assessment; recovery; adaptation in multi-risk contexts	Africa (notably Malawi, South Africa, Kenya, Ethiopia, Tunisia, Morocco, Benin, Togo); Asia (notably Vietnam, Indonesia, Thailand); Europe (notably Germany, Austria); South America (Ecuador)
<a href="#">Dr. Navneet Kumar</a>	Climatology; Geoinformatics (Remote sensing and GIS); Hydrological Modelling; Multi Hazard Early Warning Systems (MHEWS); Natural Resources Management	Himalayas, Ethiopia, Somaliland, India, Algeria, Niger, Mali, Uzbekistan, South Korea

<a href="#">Sönke Kreft</a>	Climate Policy; Climate and Disaster Risk Finance; Climate and Risk Governance; Climate Insurance	Caribbean (Jamaica, St Lucia, Grenada, Barbados), Africa: Sierra Leone, Morocco, Tunisia, Ethiopia, Ruanda, Kenya, Tanzania, Lesotho, Asia: Indonesia, Thailand, Viet Nam, Philippines, Mexico, Germany
<a href="#">Dr. Jack O'Connor</a>	Ecosystem-based adaptation in marine / coastal areas; Interlinking biodiversity and disaster risk reduction	South-south east Asia, India and Vietnam (increasingly: Indonesia and also Germany)
<a href="#">Dr. Robert Oakes</a>	Climate migration; Health and loss and damage (data/empirics/policy/framing), Children	Pacific Islands
<a href="#">Dr. Andrea Ramirez</a>	Urban Nature-based Solutions; Latin America; Urban Governance; Strategies for urban sustainability	Latin America (Colombia, Mexico); Spain
<a href="#">Dr. Simone Sandholz</a>	Transformation; Sustainable urban and regional development; Critical green and grey infrastructures; Urban nature-based solutions	Germany, Austria, Brazil, Mexico, Indonesia, Nepal
<a href="#">Dr. Stefan Schneiderbauer</a>	Climate change impact and related risk, particularly with a focus on non-bio-physical aspects; Risk analysis in mountain areas; Methods for risk assessment and evaluation; Local knowledge within DRR / CCA; Risk awareness and risk perception issues	Mountain Regions in the global South, particularly: HKH, Andes, Central Asia, Maloti-Drakensberge (Southern Africa)
<a href="#">Prof. Dr. Zita Sebesvari</a>	Ecosystem-based adaptation and disaster risk reduction; Interconnected disaster risk; ecosystem loss and damage, adaptation to sea level rise at the low-lying coast and in river deltas	Low-lying coastal areas in Vietnam, Bangladesh, India and Brazil
<a href="#">Dr. Himanshu Shekhar</a>	Digitalization; Urban risk; Climate change adaptation in urban areas; Science to policy exchange; Urbanization; Wellbeing	South Asia (particularly India and Bangladesh), South America (particularly Chile and Ecuador)

<a href="#">Prof. Dr. Joerg Szarzynski</a>	<p>Multi-Hazard Early Warning Systems (MHEWS) &amp; Anticipatory Action (AA); Civil Protection and Humanitarian Relief; Disaster Management; Emergency Preparedness and Response (EP&amp;R); Environmental Change &amp; Sustainable Development in Mountains; Geospatial Earth Observation technologies for DRR and EP&amp;R; Indigenous Knowledge Systems; Capacity Development &amp; Training.</p>	<p>Sub-Saharan Africa (in particular South Africa, Malawi, Namibia, Mozambique, Lesotho, Eswatini, Ghana, Burkina Faso, Cote d'Ivoire, Cameroon, Madagascar, Mauritius, Comoros, Seychelles); Nepal, Indonesia, Japan, Central Asia, Venezuela.</p>
<a href="#">Dr. Lisa Thalheimer</a>	<p>Mechanisms and contextual effects of weather and climate impacts (including cascading and compounding events) on human (im)mobility and risk of conflict. Early and anticipatory action for disaster displaced populations. Application of econometrics and climate change attribution in the context of human (im)mobility.</p>	<p>East Africa, especially Somalia</p>
<a href="#">Dr. Kees van der Geest</a>	<p>Human mobility in the context of climate change; Loss and damage</p>	<p>Africa, Asia, Pacific Countries: Ghana, Marshall Islands, Nepal, Bangladesh</p>
<a href="#">Dr. Yvonne Walz</a>	<p>Ecosystem-based approaches; Nature-based Solutions; Sustainable Land Management; Loss and Damage of ecosystems and ecosystem services</p>	<p>West Africa (Togo, Benin, Ghana, Burkina Faso, Cote d'Ivoire), Ecuador, Peru, Vietnam</p>
<a href="#">Dr. Saskia Werners</a>	<p>Adaptation; Climate resilient development pathways; Adaptive management and early action systems; Risks</p>	<p>Europe (Netherlands, Germany, Spain, Eastern Europe), Eastern Africa (Kenya Ethiopia), Asia (India, Nepal, Bangladesh, China)</p>