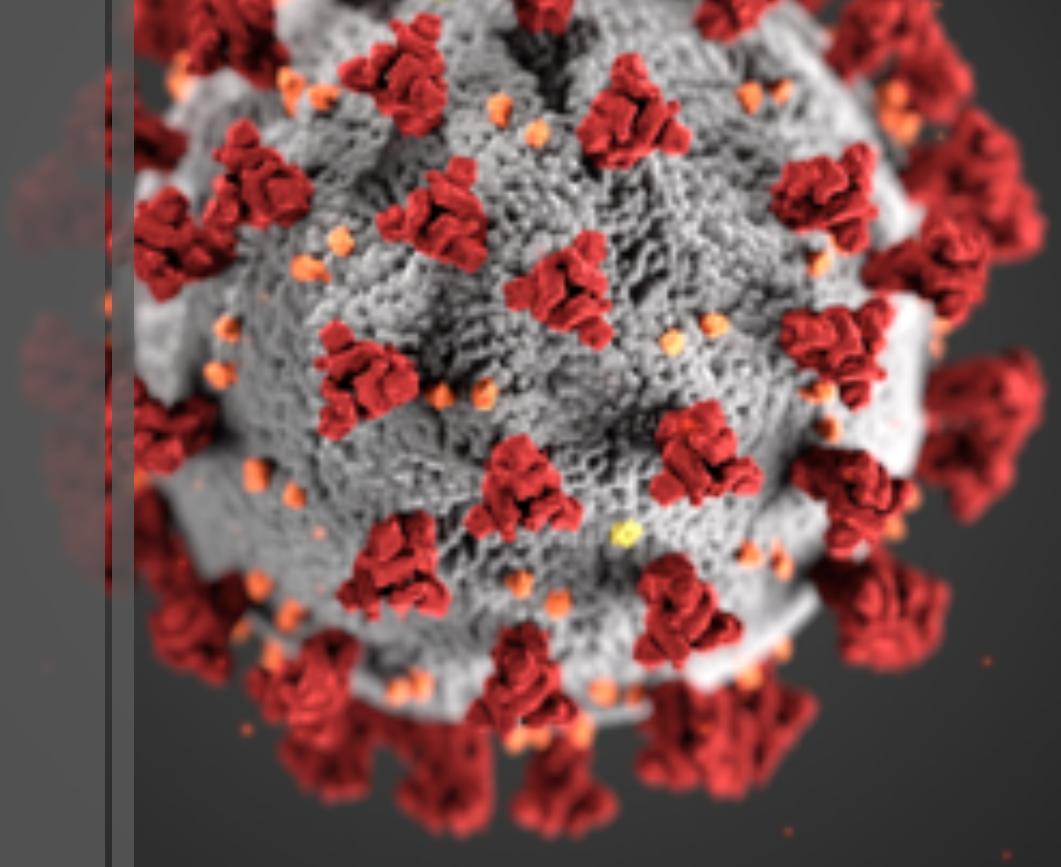




UCL



RDR

UCL Institute for Risk
and Disaster Reduction

Annual Report 2020

Edited by Peter Sammonds, Ewa Czekanska
and Tasnuva Tabassum

www.ucl.ac.uk/rdr/



From the Director

The UCL Institute for Risk and Disaster Reduction (IRDR) was launched in 2010 with a mission from the Provost to lead transdisciplinary research, teaching and knowledge exchange in the UK and internationally. We probably have had our toughest year. The early days and weeks of the crisis saw some of our students fall seriously ill, an illegal eviction to deal with, staff struggling with health issues, self-isolating and on reduced hours with caring commitments, moving teaching and assessment online over a weekend, research fieldwork put on hold, and IRDR core appointments and maternity cover frozen. Along with other UK universities, UCL faces an uncertain year ahead even though the campus will be open for the start of the 2020 academic year. But with our close involvement with some of the world's most vulnerable people, such as the Rohingya refugees, we are only too well aware of the impact of Covid-19 around the world. This

year's Humanitarian Summit and IRDR Annual Conference both reflect this, with the former focussing on the Covid-19 and climate crises as humanitarian crises, and the latter looking at the pandemic from a global perspective.

However, so many positive things have happened in this our tenth year. We are now established by UCL Council as UCL's newest academic department. We are promoting our new BSc Global Humanitarian Studies programme, to start in 2021, and have welcomed the appointment of two lecturers in Humanitarian Studies, Dr Punam Yadav and Dr Jessica Field. The Centre for Gender and Disaster launched its global GRRIPP project. Prof Patty Kostkova won IT Innovator of the Year. Research meetings from the Spring Academy to a workshop on Identities and Education in Crisis, successfully transitioned online. And it was pleasing to see research, not just thriving in the IRDR, but striking out in new directions - even during lockdown.

So we are going to come out the other side of the coronavirus crisis a strengthened department with a mission to develop the IRDR and Humanitarian Institute themed around disaster resilience, cascading crises, natural hazards, humanitarian crisis response, health in emergencies, conflict and migration, climate change adaptation, and gender responsive resilience, in order to integrate education, research, innovation and enterprise for the long-term benefit of humanity. If our vision appeals to you, we invite you to join with us. You may join the IRDR through our webpage: www.ucl.ac.uk/risk-disaster-reduction

Peter Sammonds
Director and Head of Department, UCL Institute for Risk and Disaster Reduction

Contents

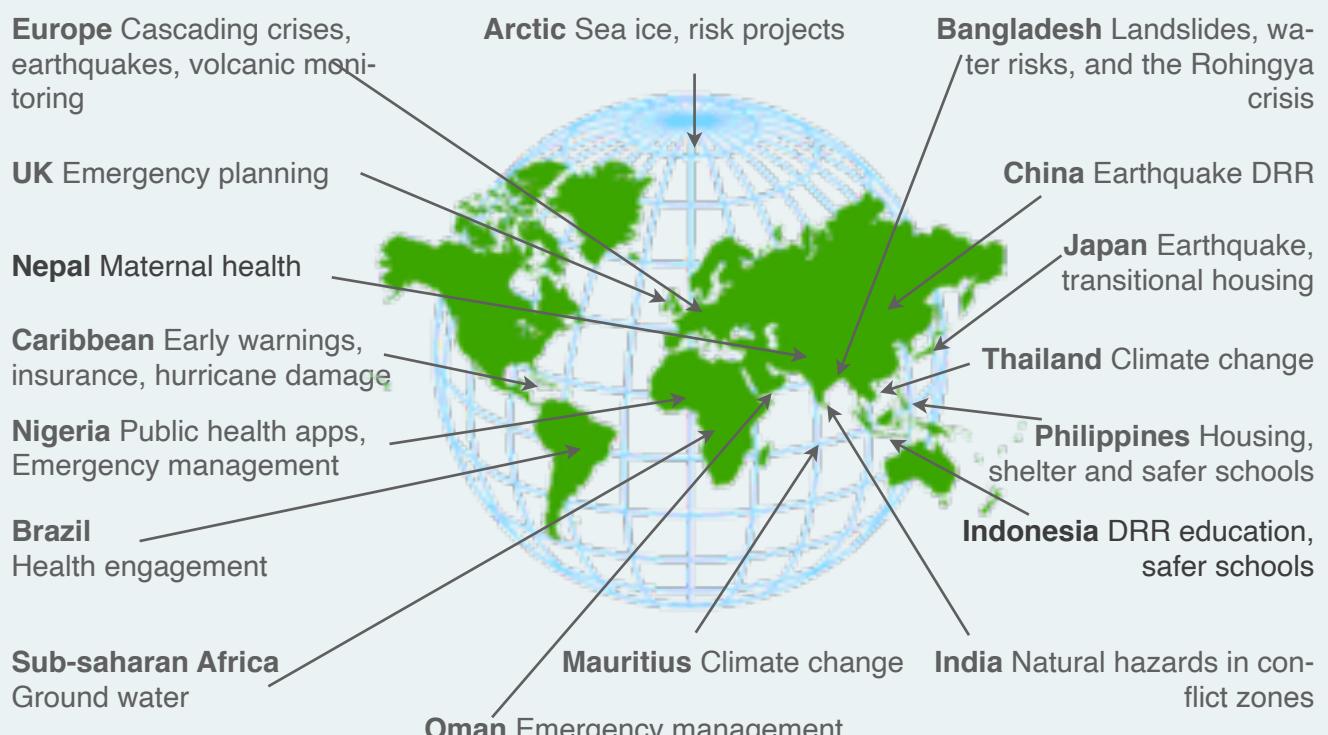
02	From the Director	10	Education and Training
03	IRDR at a Glance in 2020		Doctoral Research Centre
	IRDR - Global Reach	11	Masters and BSc Programmes
05	Public Engagement	13	Research Achievements
	Public Events in 2019-20	14	Academic and Research Staff
06	Making Impact	19	PhD Research Students
	Media Engagement	25	Publications 2019-20
07	Enterprise and Innovation	30	Calendar 2020-21
	Careers and Students	31	IRDR People
08	Humanitarian Institute		
09	IRDR Centres: Gender and Disaster Digital Public Health in Emergencies		

IRDR at a Glance in 2020

Below we highlight some of the developments and achievements within the IRDR during 2019-20:

- IRDR became UCL's newest academic department following a decision by UCL Council.
- Welcomed the appointments of Dr Punam Yadav and Dr Jessica Field as Lecturers in Humanitarian Studies.
- BSc Global Humanitarian Studies new degree programme approved by UCL Education Committee starting in 2021.
- Won over £8 million of competitive research funding from UKRI, Belmont Forum, the Royal Society and British Academy.
- IRDR Centre for Gender and Disaster launched the Gender Responsive Resilience and Intersectionality in Policy and Practice (GRRIPP) project.
- Professor Patty Kostkova was named 'Innovator of the Year' at the Computing Women in IT Excellence Awards 2019.
- Moved teaching online in response to the Covid-19 crisis while supporting research and knowledge exchange.
- Responded to the crisis with initiatives including the IRDR Covid-19 Laboratory, #MyLockdownJournal and the European-wide perceptions survey: 'COVID-19 Emergency, Recovery and Improvement'
- Welcomed the promotion to professor of Patty Kostkova and Ilan Kelman, the appointments of Drs Susanne Luedtke, Eija Meriläinen and Virginie Le Masson as research fellows, Georgiana Birjovanu and Philip Baker as research staff, Sarah Jeal and Nadia Jackson as professional staff.
- Congratulated Janto Hess, Rory Walshe and Nathanael Harwood on graduating with PhDs, while welcoming Xiao (Shaw) Han, Xuanrong Wang, Jeremy Reynolds, Bernice Mufor Nkekeh and Aisha Aldosery as new IRDR research students.
- 1000+ participants attended IRDR events.
- Published over 70 peer-reviewed academic papers and book chapters in 2019-20.

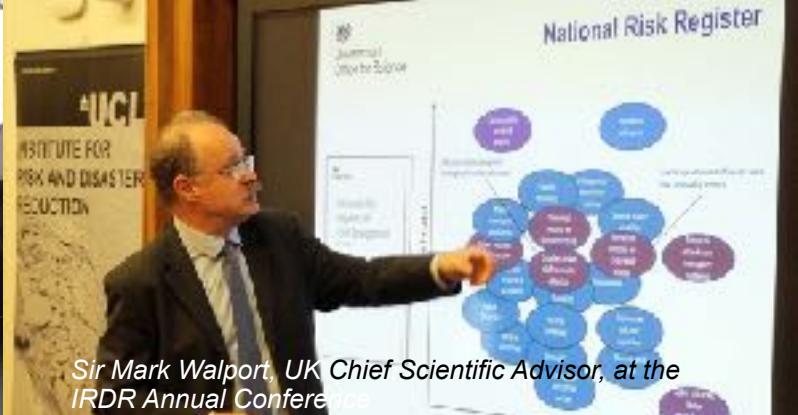
IRDR Global Reach



A Decade in Images



Temporary shelters after Ecuador Earthquake (Source: Bayes Ahmed. Credit: EEFIT mission)



Public Engagement

A key aim of the IRDR is to engage in public debate on issues in risk and disaster reduction, creating a space for academic discourse in the public policy and political arenas, and raising the profile of UCL. To achieve this, we organise discussion meetings, lectures, symposia and an annual conference open to the UCL community and the general public, as well as organising workshops with local communities as part of our research projects and participating in external public engagement events.

With the launch of the new Global Humanitarian Studies BSc, we extended invitations to a new audience of Year 12 students, their parents and teachers, and welcomed many to our events. We have held a number of taster days for prospective students to give them a taste of the degree programme, the sector and the IRDR.

Our 2019/20 monthly seminar series, which are open to the public, have covered a broad range of topics including reproductive health care during floods in Bangladesh, the role of

the SAGE in emergency management, and how smart boulders are being used for landslide-flood monitoring and early warning.

Our public engagement programme has been enhanced through events hosted by the IRDR Centre for Gender and Disaster, Centre for Digital Public Health in Emergencies and the Humanitarian Institute. We have created a programme of online special lectures to be run over the coming summer.



The Director addresses a conference at Dhaka University with the President of Bangladesh as guest of honour

Public Events in 2019-20

June 2019: IRDR 9th Annual Conference, convened by Dr Gianluca Pescaroli and attended by 300 people, on cascading and interconnected risk, with a keynote address by Lord Toby Harris.

July 2019: International Conference on the Rohingya Crisis in Comparative Perspective, attended by 300 people, with keynote addresses by H.E. Ms Saida Muna Tasneem (Bangladesh High Commissioner to the UK, Ireland and Liberia) and Christopher Sidoti (international human rights lawyer) on genocide in the Rohingya experience.

October 2019: IRDR Special Seminar on *The Risk in DRR* by Dickie Whitaker, CEO of Oasis loss modelling framework.

January 2020: IRDR Special Seminar on *Changing Risk in a Changing World* by Mami Mitzutori, Head of UN DRR.

February 2020: 1. Humanitarian Institute UN STG Evening Conference on Natural Hazards, Conflicts and Disasters in the Himalaya events, hosted in collaboration with the University of Kashmir, attended by 160 people. 2. Humanitarian Master-class on Earth Observation and Natural Hazards. 3. IRDR Careers and Opportunities Fair.

July 2020: 1. Humanitarian Summit: Climate and Covid-19 as humanitarian crises. 2. IRDR 10th Annual Conference on the

Covid-19 Pandemic – A Global Perspective saw the Rt Hon Hilary Benn MP in conversation with journalist Christopher Guinness and a keynote speech by the UN-DRR's Marc Gordon.



Making Impact

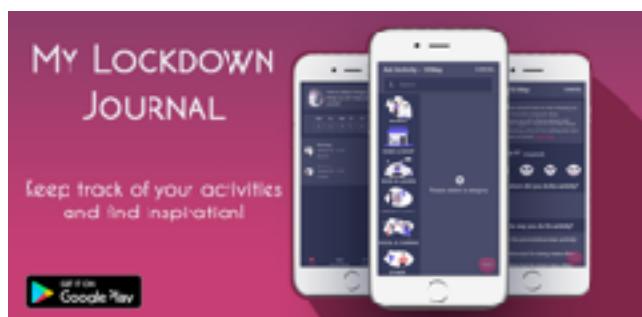
In the IRDR, we aim not only for our research to advance understanding and knowledge in the area of risk and disaster reduction, but also for those findings to have an impact on reducing those disaster risks in the real world.

Professor Patty Kostkova and her team at the UCL IRDR Centre for Digital Public Health in Emergencies are leading several projects to develop digital applications and resources for medical professionals and people around the world. One of them, a Gamified Antimicrobial Stewardship (AMS) Decision Support App (GADSA) was successfully evaluated at the point of care in three hospital sites in Nigeria. The potential of the app has attracted attention from a number of international AMR societies, the NHS and industry, such as BioMerieux, and the team are working on partnerships to scale up GASDA across Africa and Europe.

The UCL IRDR Centre for Digital Public Health in Emergencies (dPHE)'s My Lockdown Journal app has been rapidly developed and released during the lockdown. The app inspires journaling, proven to boost mental health, through interactive features and collects data to inform policymakers as to how people's lives change throughout varying social distancing measures. The app also provides a digital behavioural interventions

and educational component to reduce negative impacts of COVID-19. My Lockdown Journal is available in Apple, Google and Android app stores free of charge and attracted a lot of interest from the public as evidenced by the positive feedback and rating.

Research on cascading disasters by Professor David Alexander and Dr Gianluca Pescaroli was used to develop resilience strategies by London Resilience and featured



in the United Nations' Global Assessment Report 2019. Dr Pescaroli provides his expertise on operational and organisational resilience to Greater London Authority and United Nations Office for Disaster Risk Reduction. Professor Kostkova has been providing strategic advice to WHO EURO on digital epidemiology for rapid-response and surveillance strategy for COVID-19.

Media Engagement

The IRDR maintains a high-profile media strategy, providing both immediate comment during disasters, and features for documentaries and magazines.

Dr Robert Wicks and Professor Ilan Kelman spoke to Sky News about the impact of solar storms on power networks (January 18th) while Dr Gianluca Pescaroli discussing flooding and flood risk in the wake of storms Ciara and Dennis in early 2020 on Sky Breakfast News (March 1st).

Since March 2020, IRDR staff have been making numerous global media appearances

on the Covid-19, commenting on prevention, preparedness, and emergency management for a pandemic to the international political effects, the consequences of lockdown, and digital epidemiology. Professor Kelman, Dr Pescaroli and Professor David Alexander have appeared in radio and television interviews (Sky News, BBC, Al Jazeera), podcasts and provided commentaries, and blog posts in The Guardian, The Independent, The Telegraph, the New York Times, the Huffington Post.

In June 2020, the Mail Online and iNews featured the *My Lockdown Journal* app .

Enterprise and Innovation

At IRDR Enterprise and Innovation, we are motivated by our passion for bridging the gap between academia and practice.

The GADSA app developed by the team of Professor Patty Kostkova is one of the most innovative digital solution tackling the global challenge of antibiotic resistance in the world by offering a gamified decision support to increase compliance with antibiotic prescribing guidelines. The evaluation of the



GADSA app

app in three hospital settings in Nigeria showed that 69% non-compliant decisions about the risk of the procedure and 10-15% non-compliant decisions on the type and length of antibiotic prescriptions were changed following feedback given by the app.

International Antimicrobial Resistance societies, the NHS and commercial companies,

such as BioMerieux, have noticed the potential of GADSA app while the project has won a number of prizes. The project lead, Prof Patty Kostkova, won the Innovator of the Year 2019 by the Computing Women in IT Excellence Awards 2019, and Dr Caroline Wood was a finalist in the Digital Public Health Conference Innovation Prize 2019 in the category Best Partnership.

New partnerships and funding to scale up GADSA across Africa and in the UK. It is an innovative and impactful product that has the potential to change AMS globally.

Enterprise for UCL IRDR students

In November 2019, UCL IRDR held the Entrepreneurship for Global Humanitarian Impact workshop, supported by the UCL incubator BaseKX. Twenty participants worked in groups to develop a product that could be used in a humanitarian setting and pitched them to the other groups. Students also learned valuable networking and presentation tips from the coach leading the workshop.

Careers and Students

At UCL IRDR, we provide our students with not only academic excellence but also practical knowledge and training to support their career development.

This year, Emily Warburton-Brown (Risk, Disaster and Resilience MSc 2015-17), a Resilience Analyst at Canary Wharf Group plc led a career-focused session on how business continuity is managed in commercial estates such as Canary Wharf. We also welcomed Katie Bisaro, a UCL careers expert with a background in the humanitarian and charity organisations, who lead a session on recruitment processes and strategies for careers in these sectors.

We hold an annual Careers and Opportunities Fair, specifically targeted at opportunities in Risk and Disaster Reduction. Recruiters, students and alumni find this event useful for making connections with each other and finding out more about the opportunities available throughout the sector.

We also offer networking opportunities at our conferences and hold the IRDR Alumni Mixer event, where current students and alumni can meet, share experiences, and help build the global IRDR network.

We are proud to see so many of our Master's students prospering in careers. Recent graduates have found jobs in companies such as Amazon, Global Parametrics and RMS, and NGOs such as Rescue Global, while others have gone on to further study. Some are now working on research projects within the IRDR, including a Covid-19 project in the Centre for Digital Public Health in Emergencies.



Humanitarian Institute

The Humanitarian Institute is a UCL Provost's Strategic Initiative, launched at the 2017 UCL Humanitarian Summit. Its mission is to mobilise UCL's research, expertise and teaching to impact global humanitarian challenges and to promote education for **global citizenship**. It is led by Professor Peter Sammonds and Dr Rosanna Smith.

Research

The Rohingya Exodus is one of the biggest global humanitarian crises of today. With research funding from the British Academy, the Royal Society, and UCL's Global Challenges Research Fund allocation, Prof Peter Sammonds and Dr Bayes Ahmed are building a growing research team investigating the historical and contemporary perspectives of Rohingya journeys, their experiences of gendered violence, and ensuring resilient futures for the Rohingya stateless people.



Multi-hazard prone Rohingya Camp in no mans' land between Bangladesh and Myanmar

Teaching

Following an exercise in summer 2018 to map existing teaching at UCL in humanitarian issues, we found that UCL has a strong suite of thematic Masters programmes that cover a range of aspects of humanitarian studies, and that there were many undergraduate modules that address or could be applied to humanitarian issues and contexts. However, there was no existing undergraduate programme to bring this together, yet there was an identified need from employers for undergraduates trained in this area. It is also an area that we believe many aspiring UCL students would like to pursue. So we are

proposing a new UCL undergraduate degree in Humanitarian Studies, which we will launch in 2021. We invite students, teachers, educational professionals, practitioners, and employers who are interested to be involved to get in touch. Programme details are in the Annual Report.

Ahead of launching new undergraduate teaching, we already run a Masterclass series to deliver 1-day practical programmes for staff, students and practitioners, delivered by UCL researchers and our partners in developing countries. In 2019-20 we delivered a masterclass on:

- Earth Observation and Natural Hazards*
which we are also moving online.

We are now planning to move a second Masterclass online:

- Safer, More Resilient Communities Through Safe and Resilient Schools*, in conjunction with UCL CEGE, and their project partners from the Philippines and Indonesia.

Humanitarian public events

We run public events with the aim of providing a platform to develop humanitarian themes and networks:

- UCL Humanitarian Summit, June 2019. Natural Hazards, Conflicts and Disasters in the Himalaya* in conjunction with the University of Kashmir
- Evening Conference on Natural Hazards, Conflicts and Disasters in the Himalaya* in conjunction with the University of Kashmir, February 2020.
- UCL Humanitarian Summit, July 2020*



Centre for Gender and Disaster

The Centre for Gender and Disaster (CGD) is a trans-disciplinary research centre aiming to develop awareness of and responsiveness to gender in humanitarian contexts, through excellence in research and teaching. It is led by Centre Director Prof Maureen Fordham and Centre Co-director Dr Punam Yadav.

The CGD team together with the UK and international partners secured a £5 million UKRI Collective Fund award for the Gender Responsive Resilience and Intersectionality in Policy and Practice (GRRIPP) project launched in November 2019. This project aims to disrupt mainstream development discussions on gender and build a sustainable structure and increase resilience and capacity in Official Development Assistance countries.

We have completed work with Plan International in Burkina Faso and Mali. Our innovation was to develop the Adolescent Girls In Crisis Socio-ecological Framework which allowed us to also research the en-

abling environment of peers, family, community, society in which the adolescent girls are situated.

In the last academic year, we designed and delivered IRDR0016 Gender, Disaster and Conflict module (led by Maureen and Punam) that received a great feedback from students.

We are about to launch the first edition of its annotated bibliography on gender, hazards and disaster and have started to compile the Encyclopaedia of Gender, Hazards and Disaster that will be part of the Oxford Research Encyclopedia of Natural Hazard Science.

The Centre was represented by Maureen Fordham and Punam Yadav at the Global Platform for Disaster Risk Reduction in Geneva in May 2020 and contributed to organise a Winter School on Gender Equality and Resilience to Disasters and Climate Risks (Cape Town, South Africa) held in July 2020.

Centre for Digital Public Health in Emergencies dPHE

The IRDR Centre for Digital Public Health in Emergencies (dPHE) provides cutting edge research into mobile technologies, data science and policy; education for the next generation of experts, and a space for collaboration in the global digital public health sector.

Our current projects include :

- My Lockdown Journal – a mental well-being and research project and app launched in response to COVID-19
- ZIKA MEWAR Project – Initiative in Brazil creating a mobile app for health workers and web app for managers to combat ZIKA virus
- DR-TB – Digitalised guidance for doctors in South Africa to deal with drug resistant Tuberculosis
- GADSA – Gamified Antimicrobial Stewardship Decision Support App for



assessing antibiotic prescriptions and guiding surgeons

- INRIC – International Resource for Infection Control – an invaluable resource for health and aid workers

We currently offer taught modules in the IRDR Masters and BSc programmes and are developing an MSc programme in Digital Public Health.

The Centre host events throughout the year. These include our annual conference: The International Digital Public Health conference (www.acm-digital-health.org) and events in conjunction with the IRDR and Humanitarian Institute.

Education and Training

Education and training are part of the core mission of the IRDR. We have established teaching in hazards, risk, resilience and disaster risk reduction as an integrated discipline at UCL and run three masters programmes with over 40 masters students. We are preparing to launch the undergraduate programme in BSc Global Humanitarian Studies for 2021.

No-one involved in teaching in 2020 will forget how over a weekend the last two weeks of teaching in Term 2 moved online. This was followed by the summer exams. This involved a huge effort by the teaching and professional staff - and commitment and tolerance of the student body. More problematic were the student independent research projects where a significant minority were no longer viable and had to be re-started in new directions.

For students arriving in the 2020-21 academic year, we have instituted the IRDR's Emergency Resilience Framework, so that we are able to respond flexibly to new challenges, and put personalised learning and socialised

learning at the centre of the student experience:

- Weekly Small Group Tutorials.** At the centrepiece of IRDR teaching will be weekly tutorials in small groups.
- Blended Learning in Taught Modules.** Taught modules delivering subject-specific knowledge will blend lectures delivered online with class and group discussions.
- Peer-to-Peer Learning.** Students will flexibly join groups at the start of the year which will form the basis for peer-to-peer student forums to discuss learning and share prior experience.
- At the start of the year it is anticipated face-to-face teaching will be restricted, and many students, particularly international students, will join tutorials and discussions online. But over the year we will transition to more face-to-face teaching as restrictions are relaxed.
- The programme directors will respond to specific questions about teaching in 2020-21.

Doctoral Training

The IRDR has a well-established and respected Doctoral Research Centre, with over 25 PhD research students who conduct interdisciplinary, wide-ranging, and international research.

From arctic risks to flood vulnerability, and from emergency management to seismic hazard, our PhD programme in Risk and Disaster Reduction in its fourth year, is generating extensive interest, especially from international students. All of our doctoral candidates contribute to the vibrancy of IRDR life and support the IRDR's mission. Many of our PhD students have supervisors from different disciplines and from different universities, extending their knowledge, networks, and contributions. Some work part-time for government, NGOs etc.

Our PhD training programme - including participation in the IRDR Student Forum, Spring Academy, and Annual Conference - fosters a new type of graduate student who is comfortable working across sectors.

It has been a difficult last few months with the Covid-19 emergency. Student research projects have been disrupted particularly because of the suspension of fieldwork. Many international IRDR PhD students returned home. But UCL and IRDR have tried to maintain the research environment with regular online supervisory meetings, continuation of the fortnightly Wednesday Discussion Forums and weekly IRDR Coffee meetings. Research funders, UCL and the IRDR have stepped in to support PhD extensions. The PhD community responded to the emergency through mutual support while many students have been involved in their home country's emergency response.



Masters Programmes

Our graduates can benefit from the core themes taught across all our programmes as well as the programme-specific topics across our taught postgraduate courses.

All of the IRDR Masters Programmes cover four central themes:

Understanding Vulnerability

Covering topics from fragility curves describing damage of buildings to social vulnerability of individuals and society.

Quantifying Risk

- What is risk and how do we measure it?
- Components of risk: exposure, hazard, vulnerability.

Multidisciplinary Holistic Approaches: Theory to Practice

- Integrating scientific knowledge into disaster risk reduction research, policy and practice.
- Communicating with stakeholders.

Managing Disasters

- How to apply plans to manage real emergencies.



Our programme-specific themes cover a range of additional topics:

MRes Risk and Disaster Reduction:

- Evidence-based research.
- Identify current questions in the field of risk and disaster reduction.
- Learn how to conduct research.
- Develop detailed studies to propose solutions.

MSc Risk, Disaster and Resilience:

Physical and Social Science of Natural and Anthropogenic Hazards

- What is known and unknown.
- Current research and uncertainties.

Building Resilience

- What are the barriers to risk and disaster reduction and how do we overcome them?
- Developing a common language to communicate complex concepts in an accessible way.

MSc Risk, Disaster and Resilience: Management Pathway

- School of Management optional topics.

MSc Risk and Disaster Science:

Science of Earth and Space Hazards

- Analysing different hazard risks: seismic and triggered events, space weather, epidemics, conflict and climate.
- Scenarios and case studies drawn globally providing breadth of experience.

Statistical and Modelling Tools

- Statistical treatment of risk.
- Bringing together data and theory.

MSc Risk and Disaster Science: Space Risks Pathway

Hazards of Outer Space

- Space weather, radiation, debris.
- Emerging risks and the future of disaster monitoring.

Satellite Design and Operations in Space

- Learn how to design and operate a satellite from UCL's space science department - the largest in the UK.



Unique in the UK, this multidisciplinary programme aims to educate and train future generations of humanitarian leaders in the theory and practice of humanitarian action.

Applications open September 2020 for the start of the programme in September 2021. The breadth of the programme means that we recruit students across the humanities, natural and social sciences, geography, mathematics, business studies, economics and computing



Philippines in the aftermath of Typhoon Haiyan

Programmes themes:

Inequality, Social Justice and Ethics

- Understanding culture and identities, inequality, aid, gender and intersectionality, conflict and migration.

Humanitarian Crises Response and Logistics

- Theoretical background and historical context with practical approaches based on scenario simulations.

Climate and Hazard Risks Impacts and Adaptation

- Concepts of risk, resilience, exposure and vulnerability to climate change and hazards in theory and practice.

International Development

- Sustaining development in the face of crises and disasters.

Programmes Optional Pathways:

Students choose two optional pathways out of four.

Digital Science

- Humanitarian data science, risk quantification, digital health and big data, for evidence-based decision making.

Management Science

- Organisational and project management, decision making and leadership for the complex interconnected world.

Global Public Health

- Disease, poverty, conflict and health crises, to challenge policy and interact with healthcare professionals.

Anthropology and Social Science

- Social networks, resilience, anthropology of war, to deepen understanding and provide tools for shaping practice.

Careers:

Humanitarian organisations and employers have emphasised the need to professionalise the sector. The core skills in the degree programme are based on a framework developed through on-going consultation with global and national employers in the humanitarian sector.

Career opportunities in the sector

- Inter-governmental organisations
- Government agencies
- NGOs
- International consultancies
- Humanitarian enterprises
- Our extensive networks give students access to practitioners across the sector.



Research Achievements

Our public engagement, research impact and graduate teaching are underpinned by excellent academic research. In the last year, IRDR researchers have produced over 70 peer reviewed publications, presented at leading international conferences, been invited to speak at prestigious academic institutions, organised international meetings and conferences and have won distinguished awards and substantial research funding.

Research has continued throughout the Covid-19 emergency. The major impacts have been curtailment of fieldwork and face-to-face interviews, cancelling of conferences and travel bans. Some projects have pivoted towards Covid-19. There have been difficulties, but excellent research is being conducted across the IRDR.

Research Funding

In 2019-20, the IRDR achieved much. Following the success of their network proposal, Professor Maureen Fordham and Dr Punam Yadav, in the IRDR Centre for Gender and Disaster, are launching their programme for Gender Responsive Resilience and Intersectionality in Policy and Practice. Newly promoted professors, Patty Kostkova and Ilan Kelman were both successful in winning £1+ million grants through the Belmont Forum for their projects.

These brought the total research funding won by the IRDR in 2019-20 from research councils, Royal Society and British Academy to £8 million. To put this figure into perspective, it exceeds the funding won in 2019 by the Department of Earth Sciences or Geography, who each have four to five times the number of academic staff.

During the year until June 2020, UCL IRDR academic and research staff have won many new research funding awards, including:

- Gianluca Pescaroli, STFC Impact Accelerator, Increasing the Resilience to Global Navigation Satellite System, £10k, 2019-20.
- Gianluca Pescaroli, Carmine Galasso, British Academy / Leverhulme, £10k, 2019-20.

- Patty Kostkova, EPSRC Impact Accelerator, £15k, 2019-20
- Laila Kadiwal, Institute of Education, and Peter Sammonds, UCL Grand Challenges, De-weaponizing identities and education in armed conflict and disaster, £7k, 2019-20.
- Maureen Fordham and Punam Yadav, with Peter Sammonds, UKRI Collective Fund, Gender Responsive Resilience and Intersectionality in Policy and Practice (GRRIPP) - Networking Plus Partnering for Resilience, £5.1 million, 2019-23.
- Ilan Kelman, Belmont Forum, Climate, Environment and Health Collaborative Research Action, Community collective action to respond to climate change influencing the environment-health nexus, EUR 1.3 million, 2019-21.
- Patty Kostkova, Belmont Forum, Mosquitoes population modelling for early warning system and rapid response, EUR 1.3 million, 2019-21.
- Patty Kostkova, Development of digital tools to aid detection and management of tuberculosis, Royal College of Physicians, £29,921, 2019-20.
- Patty Kostkova, Mobile decision support tool to enable effective decentralised management of drug-resistant tuberculosis, GCRF UCL Internal Grants, £98,532, 2019-20.
- Patty Kostkova, SYMBIOTIC: Social industrial symbiosis of Malaysia's bioplastic wastes, Innovate UK and Newton Ungku-Omar Fund award, £23,424, 2019-20.
- Patty Kostkova, Localisation of the GADSA gamified app for the NHS to improve antibiotic prescribing in surgeons, ESPRC IAA, £100,000, 2020.

International Partnership

- Gianluca Pescaroli, UCL-Tohoku Strategic Partner Fund, £4,500, 2020

Fellowship Award

- Roberto Gentile, Marie-Curie Fellowship, Earthquake Engineering, £213k, 2019-21.

Research Profile

Professor David Alexander is professor of Risk and Disaster Reduction. His latest research investigates and compares cascading effects in major incidents, emergencies, disasters and potential disasters in northeast Japan and in the London metropolitan area. The results from this research allowed to formulate a theory helping improve emergency preparedness. The UCL-IRDR Cascading Disasters Research Group works with stakeholders, including London Resilience, and industry to provide answers to questions related to cascading disasters. This has involved a 'black sky thinking' approach to investigate the varied impacts of electricity failure and their cascading effects. Current and future research is directed towards examining the



cascading effects of Covid-19. In the summer 2019, David was a member of the team that evaluated the work of the UN University Institute of Environment and Human Security, Bonn and taught at university summer schools in France, Italy and Switzerland.

Dr Ilan Kelman is a professor appointed 50:50 between IRDR and UCL Institute for Global Health. His research programme combines disaster and health research, including the integration of climate change challenges and opportunities into both topics. Two main case studies are priorities: island and archipelago communities, and the poles, so the Arctic and the Antarctic. Specific research questions relate to three main areas. First, disaster diplomacy and health diplomacy including the role of science diplomacy. Second, how climate change will affect physical, mental, and environmental health. Third, how to better connect sustainability and development topics, including health, disasters, and climate change. His 2019-2020 highlights include: 1) leading a successful

research grant of approximately £1 million across four countries to examine how local non-profit organisations deal with health under climate change affecting heat, infectious disease, and food; 2) publication of a book called *Disaster by Choice* with Oxford University Press. All this work links to future interests focusing on bringing together different fields and disciplines while better connecting research, policy, and practice.



Professor Maureen Fordham is a Professorial Research Fellow and Centre Director at the IRDR Centre for Gender and Disaster. Her research interests are concerned with the gender and disaster nexus and within that to explore complex understandings of gender beyond a simple binary definition. Maureen is currently leading the GRRIPP (Gender Responsive Resilience and Intersectionality in Policy and Practice) project: Networking Plus Partnering for Resilience 2019-2023 funded by the UKRI Collective Fund that brings together partners from Latin America and Caribbean (LAC), Southern Africa, South Asia and the UK to disrupt mainstream development discussions on gender. A major task is to understand how to translate broad policy objectives to be gender responsive into policy and practice.



Research Profile

Professor Patty Kostkova is professor in Global Health and Emergencies. Her research investigates mobile digital health interventions, serious games for health and Big Data surveillance, early warning and predictions of outbreaks and emergencies. She leads the UCL IRDR Centre for Digital Public Health in Emergencies. Her research on ZIKA project investigates a novel approach for early warning of mosquito populations in high-risk areas in Northeast Brazil calibrated by unique real-time mobile surveillance data. Patty was awarded the Innovator of the Year 2019 Women in IT Excellent Awards for the GADSA app, the first game-based training app to encourage prescribing behaviour change in surgeons in Nigeria. Finally, she leads multiple COVID-19 initiatives, including journaling app and survey to understand behaviour change in lockdown and COVID-19 social media discourse. In 2019, Patty chaired the 9th Digital Public Health Conference (France).

Congratulations to all our 2019 winners!



Professor Peter Sammonds is professor of Geophysics. His work focuses on increasing resilience to environmental hazards in conflict zones. In the last year, Peter has been working on joint projects between the natural and social sciences on the forced Rohingya Exodus from Myanmar. He also organised a return visit to Ladakh (India) to discuss disaster management with the government and resilience with the community in Turtuk, and joined a team to work with teachers and students on Safer Schools in Kashmir (India).



Peter was a commissioner on the UCL-Lancet Commission on Migration and Health, working closely with the UCL Institute for Global Health, and was Strategic Advisor to UK research councils on increasing resilience to environmental hazards for projects in China, Central Asia and South Central America and the Caribbean.

Dr Joanna Faure Walker is an Associate Professor in Earthquake Geology and Risk and Disaster Reduction. Joanna leads the central Apennines laboratory of the Fault2SHA ESC Working Group, working to increase the use of faults in earthquake hazard assessments. She investigates relationships between variability in fault geometry, earthquake slip and fault interaction both during individual earthquakes and over long time periods covering multiple earthquake cycles and how this affects seismic hazard calculations. She is also co-investigator on the PRISMH project (Philippines Resilience of Schools to Multi-Hazard), investigating the early warning systems and relative suitability of schools as evacuation shelters.



Research Profile

Dr Bayes Ahmed is a Lecturer in Risk and Disaster Science. His principal research aim



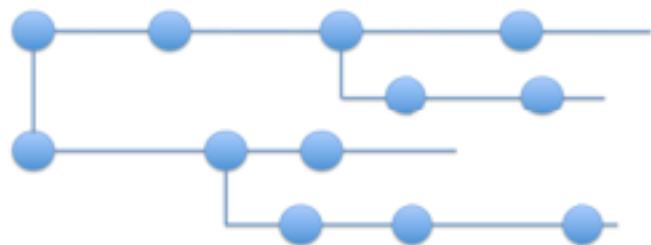
is to help build resilient futures for the Rohingya refugee and local host populations in Cox's Bazar district, Bangladesh, through research and practical solutions to reduce hydro-meteorological disaster risks, particularly landslides. Specific objectives of the proposed research are: 1) to develop landslide susceptibility maps and a dynamic early-warning system; 2) to improve awareness in vulnerable communities and strengthen planning capacity of Cox's Bazar authorities. In July 2019, Bayes conducted fieldwork in the Rohingya camps/informal settlements in Bangladesh, India and Malaysia to understand the complexity of the crisis. He is currently planning to extend his work in understanding how COVID-19 is disproportionately affecting refugees, minorities and informal sector workers.

Dr Gianluca Pescaroli is a Lecturer in Business Continuity and Organisational Resilience. His research investigates how to build and improve the ability to maintain operations during disruptive events, how to minimise their impacts, and how to increase the resilience of the public and private sectors. This includes learning to understand complex challenges such as cascading risks, critical infrastructure failures, and compound dynamics. His current involves stress-testing scenarios for operational resilience, including second wave of COVID 19, concurrent and cascading risk, and hybrid threats. In 2019-20 Gianluca won four grants and two consultancy projects that allowed him to work more consistently in the field of operational

and organisational resilience. He was an invited guest speaker at the Operational Resilience Forum, European Science and Technology Advisory Group and the 7th Annual QED Conference on Cybersecurity. Gianluca has been co-editing a special issue on the International Journal of Disaster Risk Reduction on the topic 'training and exercises in critical infrastructure protection and resilience', developed in collaboration with the colleagues of the European Commission Joint Research Centre.



Dr Katerina Stavrianaki is a Lecturer in Risk Analysis. Her research includes the statistical analysis of earthquakes using the Epidemic Type Aftershock Sequence (ETAS) model and more specifically, she proposes a new methodology to study the clustering in earthquake magnitudes which demonstrated their existence. She also studies acoustic emissions generated during laboratory deformation of sandstone and ice samples, which can be used as a proxy for natural processes. Her motivation is to improve current forecasting and seismic hazard approaches, with a special interest in the



modelling of spatiotemporal point processes, hazard and risk analysis, short term magnitude incompleteness and forecasting.

Research Profile

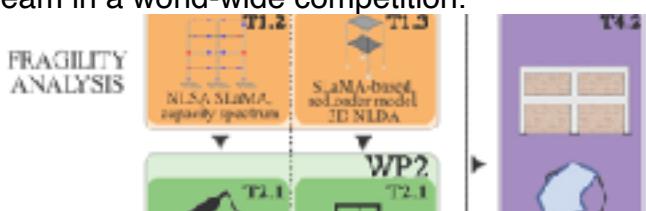
Dr Punam Yadav is a Lecturer in Humanitarian Studies and Co-Director of the IRDR Centre for Gender and Disaster. Her current work centres around examining the gendered impacts of conflict and disaster, including their transformative effects, impacts of political quota and gender related policies in society. Punam is the Co-Investigator and the Research Director for the GRRIPP project (Gender Responsive Resilience & Intersectionality in Policy and Practice – Network Plus), an innovative project seeking to establish a radical vision which begins and centres upon gender and intersectionality. Her research is currently evolving around women's leadership in the times of global pandemic.



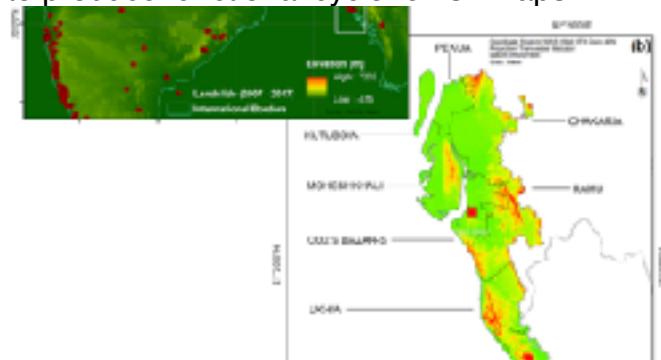
Dr Simon Day is a Senior Research Fellow in the IRDR. He is currently working on a NERC funded project on caldera-forming eruption-generated tsunamis with the British Geological Survey and the University of Rhode Island. This multi-disciplinary study is leading to a new and better understanding of the mechanisms by which caldera-forming eruptions generate tsunamis. Following the December 2018 lateral collapse landslide and eruption of Anak Krakatau (Indonesia) within the 1883 caldera, which produced a destructive tsunami, the focus of the project has shifted to this event.



Dr Roberto Gentile is a Marie Curie Senior Research Fellow working on innovative frameworks to assess earthquake risk of existing Reinforced Concrete buildings designing resilience enhancing solutions. He combines probabilistic methods for the vulnerability derivation together with simplified methods for the seismic response analysis, such as the Displacement-Based Design/Assessment and the Simple Lateral Mechanism Analysis. This approach offers an optimal trade-off between accuracy of the results and the low computational burden. In 2019, Roberto participated in the earthquake damage reconnaissance after the 26th November 2019, Mw=6.3 Albanian earthquake, organised Earthquake Engineering Field Investigation Team (EEFIT). He was selected as a member to the EEFIT team in a world-wide competition.



Dr Akhtar Alam is a Research Fellow whose work focuses on assessing the risk of Rohingya refugees to natural hazards through a monitoring and spatial modelling approach. He aims to understand what the likelihood is of the community being affected by natural hazards, what could be done to minimise their impact and what are the viable measures for ensuring a resilient future for the refugees. He performed a cyclone risk assessment of Cox's Bazar and the Rohingya refugee camps through the use of the Analytic Hierarchy Process and GIS within the general risk model to produce functional cyclone risk maps.



Research Profile

Dr Anwar Musah is a Research Fellow, whose research interests focus on the application of statistical modelling, geospatial analysis and data science to public health and social sciences (with a regional focus on the Global South). Since joining IRDR in June 2019 he worked with Professor Patty Kostkova (PI) on the UKRI EPSRC IAA funded project ‘A deployment of ZIKA: A mobile mosquito surveillance app to combat arboviruses in Brazil’ which aimed to develop models for the spatial prediction of mosquito populations that transmit arboviruses in Brazil. The overarching goal has been to integrate these predictions to



an early warning system for areas with potential mosquito infestation that could be implemented for vector control measures in Brazil. As of June 2020, the work has broadened into a vast piece of research funded by Belmont Forum CRA (Climate, Environment & Health) aiming to bring together digital health, urban sanitation and meteorology in order to evaluate the impacts of broader climate and environmental changes on breeding habitats for mosquito-borne arboviruses in Brazil.

Georgiana Birjovanu is a Software Engineer at the Centre for Digital Public Health in Emergencies since July 2019, focused on developing software solutions for public health stakeholders. Over the past year, she worked on multiple projects at the dPHE. This includes building a gamified antimicrobial decision support app piloted in three hospital settings in Nigeria, for which Georgiana built the optimal medical decision trees, based on which the tool would suggest to the surgeons the most suitable treatment for their patients. She worked on creating a reliable and customisable solution for public health agents that are dealing with the Zika Virus in Brazil



and is currently involved in the drug resistant tuberculosis project in South Africa. The latter aims to digitalise treatment guidelines, for which she has been creating the first design and technical requirements. During the Covid-19 pandemic she has developed the app My Lockdown Journal which aims to support people during the lockdown, boosting their mental health and enabling them to keep track of their activities.

Dr Eija Meriläinen joined IRDR in May 2020 as a Research Fellow. Prior to this post she conducted her postgraduate studies for doctoral thesis entitled ‘Urban disaster governance: resilience and rights in the unequal city’ in Hanken School of Economics in Finland. In IRDR she works with Professor Ilan Kelman on the project related to community collective action and climate change.

Dr Virginie Le Masson joined the Centre for Gender and Disaster as a Research Fellow in June 2020. She is coordinating the Monitoring and Evaluation of the GRRIPP project, to promote gender-responsive research, policies and practices that foster resilience. Prior to joining UCL, Virginie worked with the Overseas Development Institute on research that integrates gender equality in disaster-risk reduction initiatives and in climate change-related programmes.

Philip Baker is a Research Assistant and Communications & Social Media Officer at the dPHE since April 2020. He is involved in running online surveys, hosting dPHE’s #mylockdownjournal competition to find and share positive activities during the lockdown, and supporting the development of My Lockdown Journal app.

Aisha Aldosery: “An IoT-Based Surveillance System to Control the Outbreak of Mosquito-Borne Diseases: A Case Study of ZIKA at Brazil” (Start: January 2020)

Funding: Government of Saudi Arabia

Synopsis: This research aims to develop and implement a cloud-based surveillance and early warning system in real-time to predicate any prevalence of vector-borne diseases using the integration of the Internet of Things (IoT) and mobile application.



Bernice Mufor Nkekeh: “Community Emergency Preparedness and Response. A comparative analysis of the cases of Mount Cameroon and Mount Etna.” (Start: January 2020)

Funding: Self

Synopsis: This project seeks to make a contribution to the scholarship on vulnerability reduction. The findings from this comparative study of the volcanic eruptions in Mount Cameroon in Cameroon and Mount Etna in Italy will add to the existing knowledge on disaster preparedness. It will moreover help identify challenges faced by the countries concerned. Further, the study will make recommendations aimed at improving the Emergency Preparedness and Response of both countries. Particular emphasis shall be on minimising vulnerability through a better understanding of and a better enhancement of local knowledge, experience and practice with respect to emergency preparedness and response.



Claudia Sgambato: “Variations in Fault Parameters and Seismic Hazard in the Central and Southern Italian Apennines” (Start: September 2017)

Funding: London NERC DTP Studentship

Synopsis: Fault geometry and slip-rates are principal controls on the location and recurrence interval of earthquakes. Using detailed measurements across faults in the Italian Apennines, this research investigates the role of fault geometry in the control of seismic hazard associated with extensional fault systems.



Emmanuel C. Agbo: “Enhancing Rural Community Participation for Disaster Risk Reduction: With Case of Nigerian Flood Incidents” (Start: June 2015)

Funding: Government of Nigeria

Synopsis: This research focuses on strategic development of a structure that would comprise individuals, organisational, and network levels of social actions, which promotes effective and efficient localised disaster risk reduction interventions. It also looks to integrate local capitals for the actualisation of effective self-reliance in rural communities in developing countries.



Janto Simon Hess: “Financing Climate Change Adaptation in Small Islands: Assessing Accommodation Supplier’s Perceptions in Thailand” (Start: September 2015)

Funding: UCL IRDR partial studentship

Synopsis: This study links the topics of island studies, climate change, and tourism in perspective to financing climate change adaptation. It seeks to explore the potential recognition of climate change as an important factor in strategic investment decisions by accommodation suppliers in a small island context. Findings from this project informed the development of a national-level Climate Change Risk Assessment for Thailand’s tourism sector.



Jeremy Reynolds: “Investigating learning between organisational adaptive capacity and urban resilience in London” (Start: October 2019)

Funding: London Fire Brigade

Synopsis: Aim to investigate if organisational practices in adaptive capacity are relevant for London’s urban resilience planning. Interviews with leaders and managers in public and private sector organisations will identify aspects to scrutinise the current methodology and priorities of urban resilience planning in London.



Justine Uyimleshi Usile: “Effectiveness of the Nigerian Emergency Management System: Building Collapses, Human Stampedes and Electrical Power Failures” (Start: April 2015)

Funding: Petroleum technology development fund, Nigeria

Synopsis: Despite the need to have adequate resources, effective communication and a functional eoc in Nigeria, a lack of resources, sharing and accountability between federal, state and local government still hinders effective response and implementation of emergency response activities.



Khuloud Al Muffaraji: “What Enables Disaster Voluntarism to be a Significant Force in a Civil Protection System? Case Study from the Sultanate of Oman” (Start: October 2016)

Funding: Government of Oman

Synopsis: Volunteers represent a valuable resource of support to the formal forces during disasters but they are still underrepresented in the institutionalised systems. This research focuses on why disaster voluntarism is not well incorporated within the EMS in Oman.



Kimon Pantelides: "Developing a Consistent Approach to Ensuring Community Resilience to Risk during times of Financial Crisis" (Start: September 2017)

Funding: Self-funded

Synopsis: While the financial crisis is an obvious causal factor influencing the ability of fire services to provide adequate services to the public, it is one that notionally has a simple resolution, however it is the more complex factors linked to culture, politics and corruption that are much harder to change.



Lucy Buck: "Using Ground Penetrating Radar (GPR) to Investigate Tsunami Deposits" (Start: September 2017)

Funding: London NERC DTP Studentship

Synopsis: This project aims to investigate and describe deposits left by the Stroegga Slide tsunamis in Scotland and the Shetland Islands, and the 2004 Indian Ocean tsunami in Aceh using GPR, a non-destructive method used to image the sub surface.



Mark Shortt: "A Multi-Scale Study on the Thermodynamics and Mechanics of Freeze-Bonding in Sea Ice" (Start: August 2016)

Funding: IRDR/SAMCoT Impact Studentship

Synopsis: Consolidated sea ice features pose a considerable hazard to offshore structures in the Arctic. This research aims to determine the strength of consolidated saline ice on different scales. Experiments have been supplemented by thermodynamic and mechanical models of freeze-bonding.



Mater Almehmadi: "Investigating Health Risk Perceptions during Hajj: Pretravel Advice and Adherence to Preventative Health Measures" (Start: September 2018)

Funding: Government of the Kingdom of Saudi Arabia

Synopsis: Every year, over 2 million people gather to observe the Hajj pilgrimage in Mecca. This presents a public health risk to both Saudis and the pilgrims' country of origin. The aim of this study is to evaluate the risk perception and the source of health advice by the pilgrims.

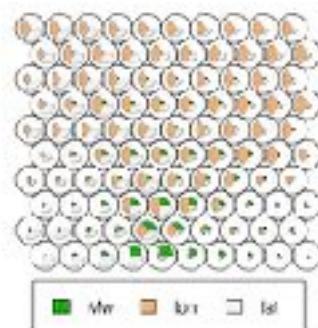


IRDR PhD Students

Melodie Vanderpuye: “Investigating Spatio-Temporal Randomness of Large Earthquakes” (Start: April 2013)
Part-time

Funding: Aon Benfield and Qatar Re

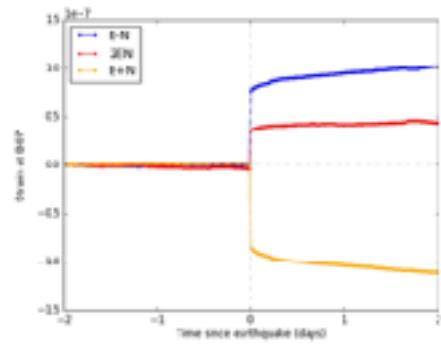
Synopsis: The literature disagrees regarding the randomness of large earthquake distributions in space and time. Framing this as a pattern recognition problem, this study applies Machine Learning techniques to identify earthquake patterns in the historical record from the last 100 years.



Mohamed Alwahedi: “Are Earthquakes Self-similar? How do Observations of Aseismic and Seismic Slip Tell Us about How the Physical Processes Driving Earthquakes Scale with Size?” (Start: October 2018)

Funding: Government of the United Arab Emirates

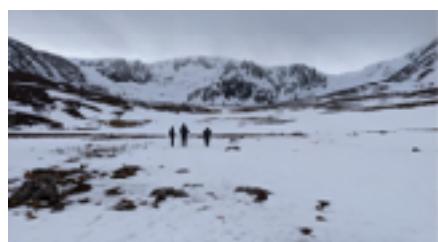
Synopsis: It has been proposed in a previous theory that earthquakes are self-similar; that the properties of earthquakes or the regions that surround them systematically vary with earthquake size. The results from Mohamed’s research showed a magnitude variation in postseismic slip with coseismic moment suggesting that earthquakes may not be self-similar. Mohamed was awarded the Inoue Masaru Scholarship for the 2019/20 academic year to collect data for this project from different Japanese agencies and establish a long lasting academic cooperation.



Myles Harris: “Prolonged Field Care Training for People Living, Working and Travelling in Remote Environments” (Start: September 2019)

Funding: Self-funded and London South Bank University

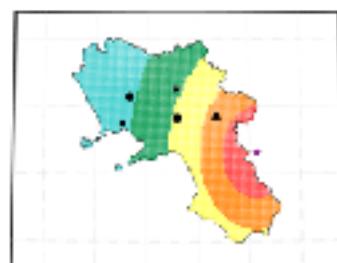
Synopsis: Prehospital, long-term healthcare in remote environments is extremely challenging, hence bespoke training is required to mitigate health disasters. The aim of this study is to establish prolonged field care theory for clinical practice in remote environments.



Omar Velazquez: “Investigating the Cross-Disciplinary Components of Earthquake Early Warning Systems” (Start: April 2015)

Funding: CONACYT-Mexico and IRDR

Synopsis: This research focuses on the design of two engineering applications of Earthquake Early Warning (EEW) systems for real-time seismic risk mitigation. Additionally, it investigates the integration of the technical and social components in EEWs.



IRDR PhD Students

Patrizia Duda: "Informal Disaster Governance in Svalbard and Dominica" (Start: July 2016)

Funding: Research Council of Norway, UCL Doctorate School, Industry and IRDR

Synopsis: With Svalbard (Arctic) and Dominica (Caribbean) as case studies, this research investigates and develops the framework of 'Informal Disaster Governance'. She also became a researcher on the Research Council of Norway funded 'NORRUSS' project which investigates Norway-Russia Disaster Diplomacy on and for Svalbard and affiliate at the University of Adger.



Rebekah Yore: "Transitional Phases to Disaster Recovery: Warning Systems, Shelter and Microinsurance" (Start: July 2015) Part-time

Funding: UCL-IRDR Impact Studentship with Rescue Global

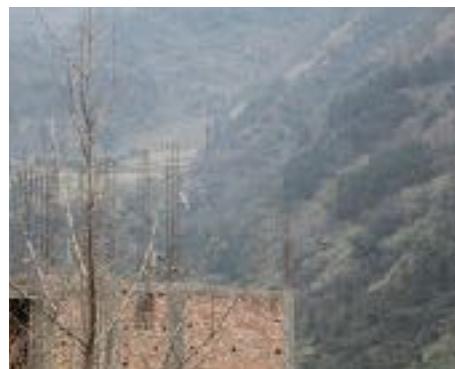
Synopsis: This research applies a comparative case study approach to investigating the transitional phases to disaster recovery through examining how preparedness, response and resilience building elements are linked, with a focus on warnings systems, temporary housing and microinsurance. In addition to her research during the last year, Rebekah provided an expert opinion on disaster resilience for Guardian News and ZNS.



Rhea Leung: "Mitigation and disaster preparedness measures in remote mountainous areas affected by earthquake-triggered geohazards" (Start: October 2014) Part Time

Funding: Self-funded

Synopsis: The 2008 Wenchuan earthquake triggered numerous geohazard risks in Sichuan Province, China. This research investigates post-earthquake geohazard risks and evaluates the effectiveness of mitigation and disaster preparedness measures.



Salma Al Zadjali: "Decadal Variability of Precipitation in Oman and Assessment of Cloud Seeding in the Western of Al-Hajar Mountains" (Start: October 2019)

Funding: Government of Oman

Synopsis: Implementation of rainfall enhancement techniques over the Al-Hajar Mountains in Oman has become very popular since the last decade. The aim of this research is to study the decadal variability of precipitation in Oman in order to assess the feasibility of its cloud seeding project.



Saqar Al Zaabi: "Analysis of Institutional and Organizational Changes after Experiencing a Series of Cyclone Emergencies" (Start: October 2016)

Funding: Government of Oman

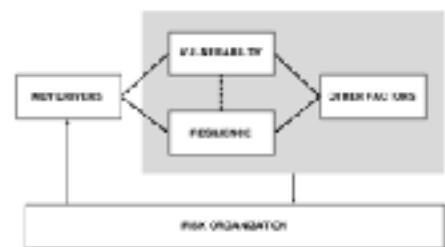
Synopsis: Following emergencies triggered by cyclones, institutional and organizational changes are usually introduced into the national emergency management systems. This research concentrates on analyzing those changes, identifying their sources, processes and implications on creating a participatory, flexible and locally-oriented management style.



Shinta Michiko Puteri: "Measuring Vulnerability and Resilience to Disaster Impacts in the urban System: A Case Study of Three Medium-sized Cities in Indonesia" (Start: April 2017)

Funding: Indonesia Endowment Fund for Education (LPDP)

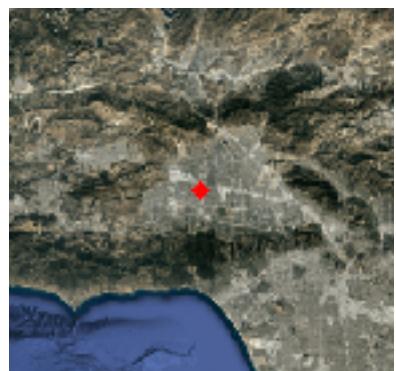
Synopsis: This is necessary to allow local stakeholders to define suitable programmes.



Tasnuva Tabassum: "Earthquake Forecasting under Short Term Aftershock Incompleteness" (Start: September 2015)

Funding: Commonwealth Scholarship Commission

Synopsis: This research focuses on establishing novel statistical methodologies for earthquake forecasting immediately after a large mainshock. These methodologies include two approaches, where the first approach uses complete foreshock data and the second one imputes missing aftershocks.



Xiao (Shaw) Han: "Disaster Risk, Vulnerability and Development" (Start: September 2019)

Funding: Self-funded

Synopsis: Disaster impact human society via natural hazards, environmental hazard and so on, but does the disaster really relate to the matter of hazard? This project focuses on rethinking the understanding of disaster risk. It mainly involves the discussion of Disaster and Vulnerability, Livelihood Challenges, Philosophy, History, Sustainable Development and other disciplines.



Xuanrong Wang: "Agricultural Insurance in China" (Start: November 2019)

Funding: CSC-UCL Joint Scholarship

Synopsis: Agriculture in China is vulnerable to natural hazards. Agricultural insurance is a form of risk management to increase farmers' financial resilience. This project applies mixed methods to investigate the development level of China's agricultural insurance market.



Ahmed, B., Kelman, I., Raja, D.R., Islam, M.R., Das, S., Shamsuddoha, M. and Fordham, M., 2019. Livelihood Impacts of Flash Floods in Cox's Bazar District, Bangladesh. *Int J Mass Emergencies & Disasters*, 37(3)

Ahmed, B., Rahman, M.S., **Sammonds, P.**, Islam, R. and Uddin, K., 2020. Application of geospatial technologies in developing a dynamic landslide early warning system in a humanitarian context: the Rohingya refugee crisis in Cox's Bazar, Bangladesh. *Geomatics, Natural Hazards and Risk*, 11(1), 446-468. doi:10.1080/19475705.2020.1730988

Ahmed, B., Sammonds, P., Saville, N.M., Le Masson, V., Suri, K., Bhat, G.M., Hakhoo, N., Jolden, T., Hussain, G., Wangmo, K. and Thusu, B., 2019. Indigenous mountain people's risk perception to environmental hazards in border conflict areas. *Int J Disaster Disk Reduction*, 35, 101063. doi:10.1016/j.ijdrr.2019.01.002

Alam, A., Ahmed, B. and Sammonds, P., 2020. Flash flood susceptibility assessment using the parameters of drainage basin morphometry in SE Bangladesh. *Quaternary International*. <https://doi.org/10.1016/j.quaint.2020.04.047>

Alam, A., Bhat, M.S. and Maheen, M., 2019. Using Landsat satellite data for assessing the land use and land cover change in Kashmir valley. *GeoJournal*, 1-15. <https://doi.org/10.1007/s10708-019-10037-x>.

Alam, A., Sammonds, P. and Ahmed, B., 2020. Cyclone risk assessment of the Cox's Bazar district and Rohingya refugee camps in southeast Bangladesh. *Science of The Total Environment*, 704, p.135360.

Alexander, D.E., 2019. Disaster and emergency planning for preparedness, response, and recovery. In: Gerber, B.J. (ed.) Oxford Encyclopedia of Natural Hazards Governance. Oxford University Press. ISBN: 9780190640231

Alexander, D.E. and Davis, I.R., 2019. The PhD system under pressure: an examiner's viewpoint. *Quality Assurance in Education* 27(1): 2-12. doi: 10.1108/QAE-04-2018-0033

Alexander, D.E., 2019. L'Aquila, central Italy, and the "disaster cycle", 2009-2017. *Disaster Prevention and Management: An International Journal*, 28(2): 272-285. doi: 10.1108/DPM-01-2018-0022

Pescaroli, G. and **Alexander, D.**, 2019. What are cascading disasters? *UCL Open Environment*, 2019(1):03: 1-7. doi: 10.14324/111.444/000011

Alexander, D.E., 2019. The strange case of the Richard Montgomery: on the evolution of intractable risk. *Safety Science*, 120, 575-582. doi: 10.1016/j.ssci.2019.08.010

Alexander, D.E. and **Pescaroli, G.**, 2019. The role of translators and interpreters in cascading crises and disasters. *Disaster Prevention and Management: An International Journal* 29(2): 144-156. doi:10.1108/DPM-12-2018-0382

Alexander, D., Gaillard, J.C., **Kelman, I.**, Marincioni, F., Penning-Rowsell, E., van Niekerk, D. and Vinnell, L.J., 2020. Academic publishing in disaster risk reduction: past, present, and future. *Disasters*. doi: 10.1111/disa.12432

Alwahedi, M.A. and Hawthorne, J.C., 2019. Intermediate-Magnitude Postseismic Slip Follows Intermediate-Magnitude (M 4 to 5) Earthquakes in California. *Geophysical Research Letters*, 46(7), pp.3676-3687.

Artus, D., Larson, H. and **Kostkova, P.**, 2019. Role of Social Media in vaccination debate about HPV: the VAC Medi+ Board study. *European Journal of Public Health*, 29 (Supplement 4), 185-682.

Ballesteros-Cánovas, J., Koul, T., Bashir, A., del Pozo, J., Allen, S., Guillot, S., Rashid, I., Alamgir, S., Shah, M., Bhat, M.S. and **Alam, A.**, 2020. Recent flood hazards in Kashmir put into context with millennium-long historical and tree-ring records. *Science of the Total Environment*, 722, 137875.

Borda, A., Molnar, A. and **Kostkova, P.**, 2019, November. Serious Games and Participatory Research in Public Health. In: *Proc 9th Int Conf on Digital Public Health* (pp. 133-133).

Birjovanu, G., Wood, C., Olufemi, O., Ogun-sola, F., Okonji, P., Kpokiri, E., **Luedtke, S.**, Shallcross, L., Soriano, D., Lefevre, C.E. and Hayward, A., 2019. GADSA: Decision Support App for Antibiotics Prescribing in Nigeria. In *Proc 9th Int Conf on Digital Public Health* (pp. 9-10).

Chian, S.C., Wilkinson, S.M., Whittle, J.K., Mulyani, R., Alarcon, J.E., Pomonis, A., Saito, K., Fraser, S., Goda, K., **Sammonds, P.** Macabuag, J. and Offord, M., 2019. Lessons Learnt From the 2009 Padang Indonesia, 2011 Tōhoku Japan and 2016 Muisne Ecuador Earthquakes. *Frontiers in Built Environment*. doi:10.3389/fbuil.2019.00073

Chinkin, C., Kaldor, M. and **Yadav, P.**, 2020. Gender and new wars. *Stability: International J Security and Development*, 9(1). doi: <http://doi.org/10.5334/sta.733>

Deeming H., Davis B., **Fordham M.** and Taylor S. 2019 'River and Surface Water Flooding in Northern England: The Civil Protection-Social Protection Nexus.' In: H. Deeming, **M Fordham**, Christian Kuhlicke, Lydia Pedoth, S. Schneiderbauer, C. Shreve, 2019 *Framing Community Disaster Resilience*, London, Wiley pp. 177-196.

Deeming, H., **Fordham, M.**, Kuhlicke, C., Pe-doth, L., Schneiderbauer, S. and Shreve, C. eds., 2019. *Framing Community Disaster Re-silience*, John Wiley & Sons, London.

de Lima, C., da Silva, C., da Silva, A., Silva, E., Marques, G., de Araujo, L.J., Junior, L., de Souza, S., de Santana, M., Gomes, J., de Freitas Barbosa, V. and **Kostkova, P.**, 2020. COVID-SGIS: A smart tool for dynamic monitoring and temporal forecasting of Covid-19. *medRxiv*.

Duda, P.I. and **Kelman, I.**, 2019. Arctic Disaster Risk Reduction and Response as Tri- umph?. In: *Arctic Triumph* (pp. 147-162). Springer, Cham.

Gentile, R., Galasso, C., Idris, Y., Rusydy, I. and Meilianda, E., 2019. From rapid visual survey to multi-hazard risk prioritisation and numerical fragility of school buildings. *Natural*

Hazards and Earth System Sciences Discussions, 19(7), 1365-1386.

Gentile, R., Nettis, A. and Raffaele, D., 2020. Effectiveness of the displacement-based seismic performance assessment for continuous RC bridges and proposed extensions. *Engineering Structures*, 221, 110910.

Galasso, C., **Gentile, R.** and Pampanin, S., 2019. A practice-oriented approach to control the effects of epistemic uncertainties on the seismic fragility of reinforced concrete frames. *A practice-oriented approach to control the effects of epistemic uncertainties on the seismic fragility of reinforced concrete frames.*, pp.115-124.

Gentile, R. and Galasso, C., 2019. Earthquake and Tsunami Risk Prioritisation of Indonesian Schools Through Rapid Visual Survey. *SECED (Society for Earthquake and Civil Engineering Dynamics)*.

Gentile, R. and Galasso, C., 2019, Sep-tember. Shedding Some Light on Multi-criteria Decision Making for Seismic Retrofitting of RC Buildings. *SECED (Society for Earthquake and Civil Engineering Dynamics)*.

Gentile, R. and Galasso, C., 2019, Sep-tember. Gaussian Process Regression for Seismic Fragility Assessment of Building Portfolios. *SECED (Society for Earthquake and Civil Engineering Dynamics)*.

Gentile, R. and Galasso, C., 2019, De-cember. Optimal retrofit selection for seismically-deficient RC buildings based on simplified performance assessment. In: *COMPDYN 2019*. M. Papadrakakis, M. Fragiadakis (eds.) *7th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, Crete, Greece, 24–26 June 2019*.

Gentile, R. and Galasso, C., 2019. Regional-scale seismic fragility assessment based on Gaussian process regression. In: *COMPDYN 2019*. M. Papadrakakis, M. Fragiadakis (eds.) *7th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, Crete, Greece, 24–26 June 2019*.

- Godinho, M.A., Borda, A., **Kostkova, P.**, Molnar, A. and Liaw, S.T., 2020. ‘Serious Games’ for unboxing, Global Digital Health Policymaking.
- Grydehøj, A., **Kelman, I.** and Su, P., 2020. Island Geographies of Separation and Cohesion: The Coronavirus (COVID-19) Pandemic and the Geopolitics of Kalaallit Nunaat (Greenland). *Tijdschrift voor economische en sociale geografie*.
- Iezzi, F., Roberts, G. and **Walker, J.F.**, 2020. Throw-rate variations within linkage zones during the growth of normal faults: Case studies from the Western Volcanic Zone, Iceland. *J Structural Geology*, 133, 103976.
- Iezzi, F., Roberts, G., **Walker, J.F.** and Panikolaou, I., 2019. Occurrence of partial and total coseismic ruptures of segmented normal fault systems: Insights from the Central Apennines, Italy. *J Structural Geology*, 126, 83-99.
- Kelman, I.**, 2019. Critiques of island sustainability in tourism. *Tourism Geographies*, pp.1-18.
- Kelman, I.**, 2019. Do Health Interventions Support Peace through “Disaster Diplomacy?”. *Peace Review*, 31(2), 158-167.
- Kelman, I.**, 2019. Imaginary numbers of climate change migrants?. *Social Sciences*, 8(5), 131.
- Kelman, I.**, 2020. Arctic humanitarianism for post-disaster settlement and shelter. *Disaster Prevention and Management: An International Journal*. doi:10.1108/DPM-12-2019-0353.
- Kelman, I.**, 2020. *Disaster by Choice: How our actions turn natural hazards into catastrophes*. Oxford University Press.
- Kelman, I.**, 2020. Introduction to “Five Years of the Sendai Framework for Disaster Risk Reduction”.
- Kelman, I.**, 2020. Islands of vulnerability and resilience: Manufactured stereotypes? *Area*, 52(1), 6-13.
- Kelman, I.**, 2020. COVID-19: what is the disaster? *Social Anthropology*.
- Kelman, I.** and Kaltofen, C., 2019. Exploring the duty of care in science diplomacy: Chal-

- lenges for secure states in an insecure world. In: *The Duty of Care in International Relations* (pp. 53-71). Routledge.
- Kelman, I.** and Næss, M.W., 2019. Climate Change and Migration for Scandinavian Saami: A Review of Possible Impacts. *Climate*, 7(4), 47.
- Kostkova, P.**, Pinheiro dos Santos, W. and Massoni, T., 2019. ZIKA: improved surveillance and forecast of Zika virus in Brazil. *European Journal of Public Health*, 29 (Suppl. 4), 186-085.
- Kruse, S., Abeling, T., Deeming, H., **Fordham, M.**, Forrester, J., Jülich, S., Karancı, A.N., Kuhlicke, C., Pelling, M., Pedoth, L. and Schneiderbauer, S., 2018. The e-BRACE resilience framework: developing an integrated framework for evaluating community resilience to natural hazards. In: *Framing Community Disaster Resilience: Resources, Capacities, Learning, and Action*, London, Wiley, pp. 79-96.
- Lishman, B., Marchenko, A., **Sammonds, P.** and Murdza, A., 2020. Acoustic emissions from in situ compression and indentation experiments on sea ice. *Cold Regions Science and Technology*, 172, 102987.
- Macneil, A.R., Owens, M.J., **Wicks, R.T.**, Lockwood, M., Bentley, S.N. and Lang, M., 2020. The evolution of inverted magnetic fields through the inner heliosphere. *Monthly Notices of the Royal Astronomical Society*, 494(3), 3642-3655. doi:[10.1093/mnras/staa951](https://doi.org/10.1093/mnras/staa951)
- Macneil, A.R., Owen, C.J., Baker, D., Brooks, D.H., Harra, L.K., Long, D.M. and **Wicks, R.T.**, 2019. Active region modulation of coronal hole solar wind. *The Astrophysical Journal*, 887(2), p.146. doi:[10.3847/1538-4357/ab5586](https://doi.org/10.3847/1538-4357/ab5586)
- Marchenko, A., Haase, A., Jensen, A., Lishman, B., Rabault, J., Evers, K.U., **Shortt, M.** and Thiel, T., 2019. Laboratory investigations of the bending rheology of floating saline ice, and physical mechanisms of wave damping, in the HSVA ice tank. *arXiv preprint arXiv:1901.05333*.

- Meschis, M., Roberts, G.P., Mildon, Z.K., Robertson, J., Michetti, A.M. and **Walker, J.F.**, 2019. Slip on a mapped normal fault for the 28 th December 1908 Messina earthquake (Mw 7.1) in Italy. *Scientific Reports*, 9(1), 1-8.
- Mika, K. and **Kelman, I.**, 2020. Shealing: Post-disaster slow healing and later recovery. *Area*.
- Mildon, Z.K., Roberts, G.P., **Walker, J.F.** and Toda, S., 2019. Coulomb pre-stress and fault bends are ignored yet vital factors for earthquake triggering and hazard. *Nature communications*, 10(1), 1-9.
- Mueller, S., **Sammonds, P.**, Bhat, G.M., Pandita, S., Suri, K., Thusu, B. and Le Masson, V., 2019. Disaster scenario simulation of the 2010 cloudburst in Leh, Ladakh, India. *Int J Disaster Risk Reduction*, 33, 485-494.
doi:10.1016/j.ijdrr.2018.09.004
- Mueller, S., Soriano, D., Boscor, A., Saville, N.M., Arjyal, A., Baral, S., Fordham, M., Hearn, G.J., Kayastha, R. and **Kostkova, P.**, 2019. MANTRA: a serious game improving knowledge of maternal and neonatal health and geohazards in Nepal. *European Journal of Public Health*, 29(Suppl. 4), 185-329.
- Musah, A.**, Rubio-Solis, A., Birjovanu, G., dos Santos, W.P., Massoni, T. and **Kostkova, P.**, 2019, November. Assessing the Relationship between various Climatic Risk Factors & Mosquito Abundance in Recife, Brazil. In: *Proc. 9th Int, Conf. on Digital Public Health* (pp. 97-100).
- Nettis, A., **Gentile, R.**, Uva, G. and Raffaele, D., 2019, June. Validation of an analytical displacement-based pushover for multi-span continuous deck bridges. In: COMPDYN 2019. M. Papadrakakis, M. Fragiadakis (eds.) 7th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, Crete, Greece, 24–26 June 2019.
- Nicolaou, G., Livadiotis, G. and **Wicks, R.T.**, 2020. On the determination of kappa distribu-

- tion functions from space plasma observations. *Entropy*, 22(2), 212. doi:[10.3390/e22020212](https://doi.org/10.3390/e22020212)
- Nicolaou, G., Livadiotis, G. and **Wicks, R.T.**, 2019. On the calculation of the effective polytropic index in space plasmas. *Entropy*, 21(10), 997.
- Nicolaou, G., Verscharen, D., **Wicks, R.T.** and Owen, C.J., 2019. The impact of turbulent solar wind fluctuations on Solar Orbiter plasma proton measurements. *The Astrophysical Journal*, 886(2), 101. doi:[10.3847/1538-4357/ab48e3](https://doi.org/10.3847/1538-4357/ab48e3)
- Nicolaou, G., **Wicks, R.**, Livadiotis, G., Verscharen, D., Owen, C. and Kataria, D., 2020. Determining the bulk parameters of plasma electrons from pitch-angle distribution measurements. *Entropy*, 22(1), 103. doi:[10.3390/e22010103](https://doi.org/10.3390/e22010103)
- Pescaroli, G.**, Velazquez, O., Alcántara-Ayala, I., Galasso, C., **Kostkova, P.** and **Alexander, D.**, 2020. A Likert Scale-Based Model for Benchmarking Operational Capacity, Organizational Resilience, and Disaster Risk Reduction. *Int J of Disaster Risk Science*. doi:10.1007/s13753-020-002769
- Pescaroli, G.**, Green, L.M., **Wicks, R.T.**, Turner, S. and Bhattachari, S., 2019. Cascading effects of global positioning and navigation satellite service failures.
doi:10.14324/000.rp.10076568
- Porter, R.T., Striolo, A., Mahgereteh, H. and **Faure Walker, J.**, 2019. Addressing the risks of induced seismicity in subsurface energy operations. *Wiley Interdisciplinary Reviews: Energy and Environment*, 8(2), e324.
- Rubio-Solis, A., **Musah, A.**, P. Dos Santos, W., Massoni, T., **Birjovanu, G.** and **Kostkova, P.**, 2019, November. ZIKA Virus: Prediction of Aedes Mosquito Larvae Occurrence in Recife (Brazil) using Online Extreme Learning Machine and Neural Networks. In: *Proc. 9th International Conference on Digital Public Health* (pp. 101-110).

Publications 2019-20

Selected Journals and Books

Seto, M., Nemoto, H., Kobayashi, N., Kikuchi, S., Honda, N., Kim, Y., **Kelman, I.** and Tomita, H., 2019. Post-disaster mental health and psychosocial support in the areas affected by the Great East Japan Earthquake: a qualitative study. *BMC psychiatry*, 19(1), 261. doi:10.1186/s12888-019-2243-z

Sgambato, C., **Walker, J.P.F.** and Roberts, G.P., 2020. Uncertainty in strain-rate from field measurements of the geometry, rates and kinematics of active normal faults: Implications for seismic hazard assessment. *Journal of Structural Geology*, 131, 103934.

Stavrianaki, K., Shortt, M. and **Sammonds, P.** (in review) Source Location and Dataset Incompleteness in Acoustic Emissions from Ice Tank Tests on Ice-Rubble-Ice Friction. *Proc. IUTAM Conference on Physics and Mechanics of Sea Ice*, Aalto University, June, 2019.

Wicks, R., **Pescaroli, G.**, Green, L. and Turner, S., 2019. Organisational Resilience for Severe Space Weather. doi:10.14324/000.rp.10076567

Woodham, L.D., **Wicks, R.T.**, Verscharen, D., Owen, C.J., Maruca, B.A. and Alterman, B.L., 2019. Parallel-propagating Fluctuations at Proton-kinetic Scales in the Solar Wind Are Dominated By Kinetic Instabilities. *The Astrophysical Journal Letters*, 884(2), L53. doi:10.3847/2041-8213/ab4adc

Wood, C., **Kostkova, P.**, Olufemi, O., Soriano, D., Ogunsola, F., Lefevre-Lewis, C., Kpokiri, E. and Shallcross, L., 2019. Understanding non-compliance with surgical antibiotic prophylaxis prescribing guidance, in Nigeria. *European Journal of Public Health*, 29 (Suppl. 4), pp.186-188.

Yadav, P., 2020. When the personal is international: implementation of the National Action Plan on resolutions 1325 and 1820. In Nepal. *Gender, Technology and Development*, pp.1-21.

Yadav, P., 2019. Speaking from the ground: Transitional gender justice in Nepal. In *Rethinking Transitional Gender Justice* (pp. 221-238). Palgrave Macmillan, Cham.

Yadav, P., 2020. Can women benefit from war? Women's agency in conflict and post-conflict societies. *Journal of Peace Research*, p.0022343320905619.

Yore, R. and **Walker, J.F.**, 2020. Early Warning Systems and Evacuation: Rare and Extreme vs Frequent and Small-Scale Tropical Cyclones in the Philippines and Dominica. *Disasters*.

Yore, R. and **Walker, J.F.**, 2019. Microinsurance for disaster recovery: Business venture or humanitarian intervention? An analysis of potential success and failure factors of microinsurance case studies. *Int. J. Disaster Risk Reduction*, 33, 16-32.

Calendar 2020-21

13 October 2020

Special Seminar: tbc

Convenor: Prof Peter Sammonds

p.sammonds@ucl.ac.uk

4 November 2020

IRDR Centre for Digital Public Health in Emergencies Anniversary Event

Convenor: Dr Patty Kostkova

p.kostkova@ucl.ac.uk

24 November 2020

IRDR Alumni & Network Roundtable Dinner

For our graduates, members and students.

Roundtable discussion and student awards

irdr-enquiries@ucl.ac.uk

20 January 2021

IRDR PhD Student Forum and Reception

Convenor: Dr Ilan Kelman

i.kelman@ucl.ac.uk

4 February 2021

Humanitarian Institute SDG Evening Conference: tbc

humanitarian-info@ucl.ac.uk

5 February 2021

Humanitarian Institute Masterclass: tbc

humanitarian-info@ucl.ac.uk

24 February 2021

IRDR Careers and Opportunities Fair

To register as exhibitor/ delegate, email: irdr-enquiries@ucl.ac.uk

8 March 2021

IRDR Centre for Gender and Disaster Public Discussion Meeting

Convenor: Dr Punam Yadav

p.yadav@ucl.ac.uk

25 March 2021

IRDR Alumni Mixer Reception

irdr-enquiries@ucl.ac.uk

26-27 April 2021

IRDR Spring Academy for IRDR research staff and students

Convenor: Dr Ilan Kelman

16 June 2021

UCL Humanitarian Summit

humanitarian-info@ucl.ac.uk

17 June 2021

IRDR 11th Annual Conference (UCL)

irdr-enquiries@ucl.ac.uk

Monthly IRDR Invited Seminar Series

Convenor: Prof Peter Sammonds

p.sammonds@ucl.ac.uk

Monthly Gender & Disaster Seminar Series

Convenor: Dr Punam Yadav

p.yadav@ucl.ac.uk

IRDR Discussion Forum Series

Informal - weekly to fortnightly

Convenor: Dr Bayes Ahmed

bayes.ahmed@ucl.ac.uk

If you wish to get involved in an IRDR event

We have the following opportunities:

IRDR Forums with partners and funders to foster cross-disciplinary collaboration. The format is 3 lead presentations, brief talks by researchers, then open discussion followed by a reception.

Humanitarian Institute Evening Conference series on the UN Sustainable Development

Goals which are open to the UCL community, general public and media, are organised around a UN SDG theme, with engagement from developing countries. Contact humanitarian-info@ucl.ac.uk if you would like to lead one of these events and propose a theme.

Humanitarian Institute Masterclass series with expertise shared by researchers and practitioners from developing countries and UCL. For students, researchers and practitioners. Contact humanitarian-info@ucl.ac.uk if you would like to lead a masterclass.

IRDR Annual Conference sessions on a research theme. The format may be presentations, panel discussion, keynote lecture or “*in conversation*” interview.

IRDR Sponsorship of launch events, conferences, seminars or workshops at UCL.

For further information, please contact the IRDR Deputy Director.

IRDR Director / Head of Department

Prof Peter Sammonds

IRDR Deputy Director / Departmental Manager

Dr Rosanna Smith

IRDR Academic Staff

Prof David Alexander
Prof Ilan Kelman
Prof Patty Kostkova
Prof Peter Sammonds
Assoc Prof Joanna Faure Walker
Assoc Prof Robert Wicks
Dr Bayes Ahmed
Dr Gianluca Pescaroli
Dr Jessica Field
Dr Katerina Stavrianaki
Dr Punam Yadav

Professional Staff

Mumtaz Ghafoor
IRDR Administrator
Sarah Jeal
Comms and Events
Yasmine Boudiaf
Finance and IT
Nadia Jackson
GRRIPP/Research Finance

IRDR Board

Peter Sammonds	Director, IRDR
Rosanna Smith	Deputy Director, IRDR
David Alexander	Professor of Risk and Disaster Reduction, IRDR
Ivan Parkin	Dean, Faculty of Mathematical and Physical Sciences
Graham Hart	Dean, Faculty of Population Health Sciences
Richard Chandler	Professor of Statistics and Head of Department, Statistical Science
Paul Upchurch	Professor of Palaeobiology and Head of Department, Earth Sciences
Dina D'Ayala	Professor and Head of Structures, Co-Director, EPICentre, CEGE
Julian Hunt, FRS	Professor of Climate Modelling, Earth Sciences
Cassidy Johnson	Lecturer, Development Planning Unit, Bartlett School
Ian Scott	Director, UCL Grand Challenges
Alan Smith	Director, UCL Space Domain
Helena Titheridge	Director, Centre for Urban Sustainability & Resilience, CEGE
Marie Aronsson-Storrier	Lecturer, Global Law and Disaster, University of Reading
Claire Fox	Director, Institute of Ideas
Robert Hall	Director, Security & Resilience Network, London First
Mumtaz Ghafoor	Secretary to the Board

Professorial and Senior Research Fellows

Prof Maureen Fordham
Dr Caroline Wood
Dr Roberto Gentile
Dr Simon Day
Dr Susanne Luedtke

Research Fellows

Dr Akhtar Alam
Dr Amira Osman
Dr Anwar Musah
Dr Eija Meriläinen
Dr Virginie Le Masson

Research Assistants

Georgiana Birjovanu
Philip Baker

Honorary Professors

Stephen Kirby, USGS
Virginia Murray, PHE

Visiting Professors

Ben Wisner
David Cope
Frank Furedi
Gordon Woo, RMS
Robert Muir-Wood, RMS

Visiting Researchers

Dr Akkenje Siylkanova
Dr Ben Lishman
Dr Indrani Roy
Dr Yu Chen

PhD Research Students

Aisha Aldosery
Bernice Mufor Nkekeh
Claudia Sgambato
David Gregory
Emmanuel Agbo
Gillian Dacey
Janto Hess
Jeremy Reynolds
Justine Uyimleshi
Kimon Pantelides
Kholoud M Al Mufarraji
Salma Al Zadjali
Lucy Buck
Mark Shortt
Mater Almehmadi
Melodie Vanderpuye
Mohamed Alwahedi
Myles Harris
Omar Velazquez Ortiz
Patrizia Duda
Rebekah Yore
Rhea Leung Ching-yeo
Saqar Alzaabi
Shinta Michiko Puteri
Tasnuva Tabassum
Xiao (Shaw) Han
Xuanrong Wang

Email: irdr-enquiries@ucl.ac.uk

UCL Institute for Risk and Disaster Reduction
University College London
Gower Street, London WC1E 6BT
United Kingdom

Location: Main Central London Bloomsbury Campus,
South Wing Building (2nd floor)

Annual Report 2020



Photography Exhibition by Mahmud Rahman at the International Conference on the Rohingya Crisis hosted at UCL by the Centre for Collective Violence, Holocaust and Genocide Studies (Institute of Advanced Studies) and the IRDR, July 2019.

BECOME A MEMBER OF THE IRDR. Reducing global risks and disasters presents a colossal challenge that requires coordinated and collaborative action. UCL is uniquely well placed to respond to this challenge with at least 70 academics across 12 departments and 7 faculties involved in world-class research, teaching and practice in the field. The IRDR aims to bring together this wealth of knowledge and expertise, and through research, teaching and knowledge exchange aims to overcome the barriers to understanding risk and reducing the impact of disasters.

ONLINE: Join more than 3600 Twitter followers and more than 2500 Facebook supporters to stay up to date. Learn more about our postgraduate programmes on our YouTube channel and become part of our professional network on LinkedIn.



UCL Institute for Risk
and Disaster Reduction

 @UCLIRDR

 @ucl.irdr

 UCL IRDR YouTube channel

 IRDR LinkedIn Group

 <https://blogs.ucl.ac.uk/irdr/>

<https://www.ucl.ac.uk/risk-disaster-reduction/>