

# CENTRE FOR THE STUDY OF **EXISTENTIAL RISK**

## Cambridge Conference on Catastrophic Risk 2024 Conference programme

Cambridge, UK 17 - 18 September 2024

### Overview Schedule

09:00 09:15 09:30 09:45 10:00 10:15 10:30 10:45 11:30 11:15 11:30 11:15 11:30 11:45 11:50 1		Monday 16 September Tuesday 17 September Wednesday 18 September					
09:15     09:30       09:36     Introduction       10:00     Keynote: Are we doing a better job to stay safe and alive, Mami Mizutori       10:45     Coffee       11:15     Coffee       11:30     1: Emerging technical and scientific challenges and solutions       12:45     1: Emerging technical and scientific challenges and solutions       13:30     1: Lunch & Networking       13:45     1: Lunch & Networking       14:15     2: Systemic risk and global catastrophic risk       14:45     2: Systemic risk and global catastrophic risk       15:30     2: Systemic risk and global catastrophic risk       16:00     2: Systemic risk and global catastrophic risk       16:15     Optional Walking Tour/ Workshops       17:30     Break       17:30     Panel 1: A recent history of the field       17:30     3: Global catastrophic risk reduction, response and resilience       17:30     Panel 3: The future of local preparedness to global response and resilience       17:30     Panel 3: The future of local preparedness to global state of the field       18:30     Opening reception       19:00     Poster Session 1       19:30     Free time       19:30     Free time       20:00     Conference Dinner	09:00						
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#### **Conference Schedule**

#### Monday 16th September

- 15:30 17:30 Optional satellite workshops
- 17:30 19:00 Opening Reception

#### **Tuesday 17th September**

- 09:00 09.30 Registration
- 09:30 10:00 Introduction

#### Keynote

- 10:00 11:00 Are we doing a better job to stay safe and alive? Mami Mizutori Respondents: Belinda Cleeland, Simon Institute for Longterm Governance and Matthew Connelly, Centre for the Study of Existential Risk
- 11:00 11:30 Coffee
- 11:30 13:00Session 1: Emerging technical and scientific challenges and<br/>solutions<br/>Co-chairs: Lalitha Sundaram, Centre for the Study of

Existential Risk and Nina Desai, Global Health Visions

## Public health's problem with normalcy; slow-moving threats and why we struggle to perceive them.

Freya Jephcott, Centre for the Study of Existential Risk

	<b>Emerging Technologies, Geopolitics, and Existential Risk:</b> <b>Addressing Technological Convergence</b> Margaret E Kosal, Sam Nunn School of International Affairs, Georgia Institute of Technology			
	<b>Existential Terrorism and Information Hazards: Mapping the Risk Landscape</b> Mel Cowans, University of Cambridge			
	Al Diffusion in the Global South; A Curse or a Blessing? Rafael Andersson Lipcsey, Equiano Institute			
	Scalable Safety in Complex Al-Human Systems: A Collaborative, Quantitative Agent Risk and Governance Framework Rafael Kaufmann & Thomas Kopinski, The Gaia Consortium			
	Q&A			
13:00 - 14:30	Lunch & Networking			
14:30 - 16:15	<b>Session 2: Systemic risk and global catastrophic risk</b> Co-chairs: Constantin Arnscheidt, Centre for the Study of Existential Risk and Pia-Johanna Schweizer, Research Institute for Sustainability, Helmholtz Centre Potsdam			
	<b>Evolution of the polycrisis: Anthropocene traps that challenge global sustainability</b> Peter Søgaard Jørgensen, Stockholm University			
	<b>Convergence of Goals: Will Mitigating Extreme Risks Be Otherwise Beneficial?</b> David Manheim, Alter.org.il			
	From understanding to managing systemic risks: Using conceptual models to identify leverage points for systemic resilience			
	Edward Charless United National University Institute for			

Edward Sparkes, United Nations University - Institute for Environment and Human Security Mitigating Cascading Risks: A Participatory System Dynamics Approach to Flood Resilience in the Himalayas Sabuhi Essa, University of Cambridge

#### Derailment risk: The consequences of the climate and nature crisis could challenge action to tackle its root causes

Laurie Laybourn, Chatham House and the Global Systems Institute, University of Exeter

#### Q&A

16:15 - 16:30 Break

## 16:30 - 18:00Session 3: Global catastrophic risk reduction, response<br/>and resilience

Co-chairs: Lara Mani, Centre for the Study of Existential Risk and Jenty Kirsch-Wood, United Nations Office for Disaster Risk Reduction

Island in the Storm: Evaluating New Zealand's Resiliency to the Unthinkable Consequences of Nuclear Conflict Matt Boyd, Adapt Research Ltd

#### Participative foresight techniques for reducing, responding and building resilience against Climate Change Catastrophic Risks

Maximiliano Santana Rodríguez, IARAN and TEC de Monterrey and Eilidh Kennedy, IARAN

#### Latin America's role in Global Catastrophic Risk management: insights, opportunities, and challenges Mónica Alejandra Ulloa Ruiz, Observatorio de Riesgos Catastróficos Globales

#### Resilient foods for preventing global famine against shocks like nuclear winter and infrastructure collapse: one decade later

Juan B. García Martínez, Alliance to Feed the Earth in Disasters

## Co-evolution of Science-led and Design-led Policy Advice against Global Catastrophic Risks

Yuna Lee, University College London

- 18:30 19:00 **Poster Session 1**
- 19:00 20:30 Conference Dinner

#### Wednesday 18th September

09:00 - 09:30	Coffee
09:30 - 11:00	Session 4: Intergovernmental governance of global catastrophic risks Co-chairs: Ken Mbeva, Centre for the Study of Existential Risk and Pamla Gopaul, African Union Development Agency
	Space Wars: How State Conflict Is Going Extraterrestrial Joanna Rozpedowski, Center for International Policy
	Hiatus in the Greenhouse: Has the IPCC helped or hindered? Robin Russell-Jones, Help Rescue the Planet
	Weaving a Web of Resilience: Integrating Indigenous Knowledge in Global Catastrophic Risk Management Dr Elena Kavanagh, University College Cork, Ireland
	The Web of Prevention as a framework for analysing governance of GCRs Catherine Rhodes, Centre for the Study of Existential Risk
	<b>Outline of a future Convention on Existential Risk</b> Manfred Kohler, Regulatory Institute
	Q&A
11:00 - 11:30	Coffee
11:30 - 13:00	Session 5: What might history tell us about the future of existential and catastrophic risk studies? Co-chairs: Matthew Connelly, Centre for the Study of Existential Risk and Julia Irwin, Louisiana State University

## The Political History of Environmental Risk in North-South Relations

Frank Gerits, Utrecht University, the Netherlands and University of the Free State, Bloemfontein South Africa

What can we learn from taking an African perspective on existential risk? Tanja Hichert, Centre for Sustainability Studies, Stellenbosch University, South Africa
Towards a global history of urban catastrophes. War, disasters, and urban resilience in the early twentieth century. Pierre Purseigle, University of Warwick
The intergovernmental governance of disasters in connection to natural hazards: lessons from the last hundred years Lukas Schemper, Leibniz Center for Literary and Cultural Research, Berlin
<b>Liberalism after the end of the world</b> Apolline Taillandier, Leverhulme Centre for the Future of Intelligence
Q&A

- 13:00 14:30 Lunch
- 13:00 14:30 **Poster session 2**

#### 14:30 - 15:15 Panel 1: A Recent History of the Field

Matthew Connelly, Director, Centre for the Study of Existential Risk Catherine Rhodes, Research Affiliate, Centre for the Study of Existential Risk Anders Sandberg, the Mimir Center for Long Term Futures Research at the Institute for Futures Studies

#### 15:15 - 16:00 Panel 2: Policy making for emerging issues

Alex Marcoci, Centre for the Study of Existential Risk and University of Nottingham Margaret E Kosal, Sam Nunn School of International Affairs, Georgia Institute of Technology Tom Hobson, Centre for the Study of Existential Risk

16:00 - 16:15 Coffee

#### 16:15 - 17:00 Panel 3: The future of local preparedness to global risk

Jessica Bland, Centre for the Study of Existential Risk James Ginns, The Centre for Long-Term Resilience Jackie Whyte, European Commission Joint Research Centre Sadi Shanaah, University of Warwick Pre-recorded video from Aarathi Krishnan, Centre for the Study of Existential Risk Affiliate and RAKSHA

17:00 - 17:15 Closing remarks

### Posters

Tuesday 17 September		Session 3: Global catastrophic risk reduction,		
Poster Session 1		response and resilience10Leveraging Communication Channels for Sub-		
Session 1: Emerging technical and scientific challenges and solutions			Saharan African Contributions to GCR-focused Al Governance George Gor, The Future Society	
1.	Humanising Warfare in the Age of Autonomous Weaponry Shagufta Sen, University of Delhi	11	Expanding cropland area to prevent mass starvation in case of a global catastrophe Luísa Lopes Monteiro - presented by Michael	
2.	Addressing Big Data as a Global Catastrophic Risks (GCR) Through Ontology and International Standards Daniel Novotný, University of South Bohemia	12	Hinge, University of Canterbury, ChristchurchExistential ResilienceToby D Pilditch, Transformative FuturesInstitute; University of Oxford; UniversityCollege London	
3.	A Framework for a Forecasting-Based Al Risk Assessment Guillem Bas, Observatorio de Riesgos Catastróficos Globales	13	It's In The Name: Value of Disaster Risk Reduction Frameworks for Global Catastrophic Risk Reduction Ximena Barker Huesca	
5.	Al-relevant regulatory precedents: A systematic search across all federal agencies Bill Anderson-Samways, Institute for Al Policy and Strategy	14	How can we prepare production for the next pandemic? Lessons to learn from COVID-19 emergency consortia Nikolai Kazantsev, Institute for Manufacturing	
Session 2: Systemic risk and global catastrophic risk		Oper	Poster Sesion	
6.	Leveraging the finance sector to mitigate GCRs: making the link to systemic financial risk	Oper		
	Katie Stewart, ShareAction	15	Trends in Public Attitude Towards Existential	
7.	A Taxonomy of Systemic Risks from General- Purpose Al Risto Uuk, Future of Life Institute & KU Leuven		<b>Risk and Artificial Intelligence</b> Ayushmaan Sharma, Existential Risk Observatory	
8.	Catastrophic Food Risk Beyond Production: Modelling Supply Chain and Infrastructure Disruption Impacts on Food Distribution Ross Tieman, Alliance to Feed the Earth in		Creative approaches to communicating global catastrophic risks Lara Mani, Centre for the Study of Existential Risk	
9	Disasters Standardizing Caseeding Bick Factors	17	Democracy at the End of Times: The Political Psychology of Perceived Global Collapse	
9	Standardizing Cascading Risk Factors Trond Arne Undheim, Stanford University		Sadi Shanaah, University of Warwick	
		18	A drop in the bucket: insights from a systematic global compilation of AI safety research Zachary Arnold, Emerging Technology Observatory, Center for Security and Emerging Technology, Georgetown University	
		19	Applying the IPAT model for investigating variations in slow global catastrophic risks over time Emma Engström, Institute for Futures studies, KTH Royal Institute of Technology, Stockholm, Sweden	

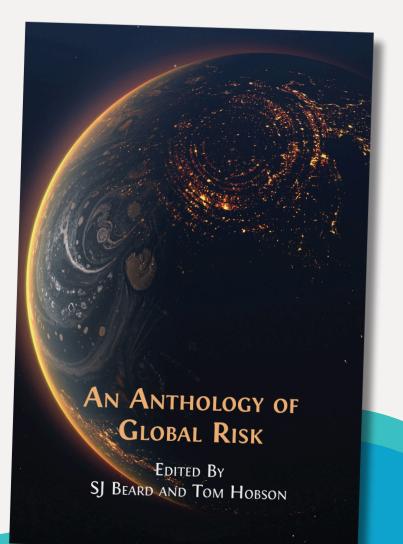
	Wednesday 18 September	Ope	n Poster Sesion	
	Poster Session 2 sion 4: Intergovernmental governance of global astrophic risks International AI Safety Assurance Agreements : Lessons from History, Feasibility Factors, and	27	Probabilistic risk assessment of solar particle events considering the cost of countermeasures to reduce the aviation radiation doseMoe Fujita, Graduate School of Advanced Integrated Studies in Human Survivability, Kyoto	
	<b>Hypotheses for the Future</b> Charles Martinet, Sciences Po Paris; Centre pour la sécurité de l'IA	28	University Creating superhumans, disrupting human	
21	Navigating collapse: Balancing development and ocean governance amidst large-scale marine socio-ecological change Reuben Makomere, University of Tasmania		nature: can germline genome editing endanger our species? Aleksandra E. Kornienko, University of Vienna, Gregor Mendel Institute	
	Faculty of Law	29	Both eyes open: Vigilant Incentives help	
22	Feminist Foreign Policy: a meaningful tool to address catastropic risks?		Auditors improve Al Safety Paolo Bova, Teesside University	
	Ines K T Grange	30	The value of humanity's potential and its alleged normative force	
23	Reimagining governance beyond nation sates: Exploring transboundary identities in addressing global catastrophic risks Siddhi Ashar, Forum for the Future		Kritika Maheshwari, TU Delft	
		31	The UNDRR/ISC Hazard Information Profiles – Standardized hazard definition and	
24	The Complex Relationship Between Militaries and Global Catastrophic Risk Zachary Kallenborn, Center for Strategic and International Studies; George Mason University;		information to support hazard understanding and data analytics Virginia Murray, Global Disaster Risk Reduction	
	National Institute for Deterrence Studies; University of Maryland and John Fogle, Alliance to Feed the Earth in Disasters			
	sion 5: What might history tell us about the re of existential and catastrophic risk studies?			
25	Facing the Abyss: A Historical Analysis of Delta Communities' Exposure to Risk Dario Fazzi, Leiden University			
26	<b>Existential Resilience</b> Thomas Moynihan, Centre for the Study of Existential Risk			



## An Anthology of Global Risk Out now

This anthology brings together a diversity of key texts in the emerging field of Existential Risk Studies.

At its heart, this book highlights the ongoing development of new academic paradigms and theories of change that have emerged from a community of researchers in and around the Centre for the Study of Existential Risk. The chapters in this book challenge received notions of human extinction and civilization collapse and seek to chart new paths towards existential security and hope.



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