Data-Driven Early Warning for Natural Hazards and Risks

Date: 21 November 2025

Time: 12:25–16:00

Location: The Deck, Innovation Centre, University of Exeter

As climate extremes intensify, the need for smarter, faster, and data-driven early warning systems has never been greater.

Join researchers, practitioners, and policymakers for an interactive half-day event exploring how AI, machine learning, and environmental intelligence can transform how we predict and respond to natural hazards — from floods and storms to wildfires and earthquakes.

The event will feature short talks, open discussions, and collaborative group sessions, focused on developing new cross-disciplinary partnerships and shaping future research proposals.

It's an excellent opportunity to network, co-design ideas, and identify collaborative directions within the University of Exeter's new Centre for Environmental Intelligence (CEI) and beyond.

Open to all interested in environmental data, AI, and risk management. Register now to secure your place! Sign-up now🔗 https://forms.cloud.microsoft/e/vAU52RmzHc

Detailed Schedule

12:25 – 12:45	Arrival & Welcome Coffee	
12:45 – 12:55	Opening & Objectives	Jawad Fayaz (Uni of Exeter)
12:55 – 13:05	New CEI & Goals	Hywel Williams (Uni of Exeter)
13:05 – 14:00	Lightening Talks (4 mins each)	1) Steve Ramsdale (Met Office) - **Meteorologically Driven Natural Hazard Prediction** 2) Elizabeth Galloway (Uni of Exeter) - **Tropical Cyclones** 3) Ant Duke (Met Office) - **Exploring AI in the Flood Forecasting and Warning Cycle at the FFC** 4) Chunbo Luo (Uni of Exeter) – **Wildfire Detection** 5) Jawad Fayaz (Uni of Exeter) – **Earthquake Early Warning** 6) Steven Palmer (Uni of Exeter) – **Landslide Detection** 7) Yasser Mehrani (Uni of Exeter) - **InSAR-based Monitoring of Ground Deformation for Geohazard Early Warning** 8) Dan Bebber (Uni of Exeter) - **Abiotic and Biotic Hazards Interaction** 9) Rob Neal (Met Office) - **Key Steps to Strengthen the Warning Value Chain Across Hazards** 10) Lorien Jasny (Uni of Exeter) - **Community Response (Heat Waves)** 11) Joe Daron (Met Office) - **Climate Services for Resilience and Adaptation**
14:00 – 14:15	Coffee Break & Networking	
14:15 – 14:35	Collaborative Breakout 1: Hazard Tables (Round 1)	
14:35 – 14:55	Collaborative Breakout 2: Rotation & Cross-Linking (Round 2)	
14:55- 15:15	Synthesis & Next Steps	
15:15 – **15:20**	Wrap-Up	
15:20- 16:00	Open Networking	