



Deep Learning for Environmental Problems – Maths4DL workshop

20-21 September 2022, University of Bath

Tuesday 20 September	
10.00 – 10.30	Arrival and coffee
10.30 – 10.45	Welcome and Introduction by Prof Chris Budd, University of Bath
10.45 – 11.15	Talk: Dr Andrew McRae, University of Oxford Generative Adversarial Networks for downscaling precipitation forecasts
11.15 – 11.45	Talk: Dr Cyril Morcrette, The Met Office Tidy spaghetti plot: distribution-based NN to predict weather probabilities
11.45 – 12.15	Talk: Dr Amulya Chevuturi, UK Centre for Ecology and Hydrology Improving global hydrological simulations through bias-correction and multi-model blending
12.15 – 12.45	Group discussion
12.45 – 14.00	Lunch and posters
14.00 – 14.30	Talk: Dr Olga Isupova, University of Bath Elephant detection in satellite imagery (online)
14.30 – 15.00	Talk: Dr Hui Tang, University of Bath Similarity between atmosphere flow and flow in gas turbine rotating cavities (online)
15.00 – 15.30	Talk: Dr Ivan Sudakow, Open University Machine learning methods for melt ponds detection and computation their fractal dimension
15.30	Coffee
18.15	Dinner at Hall & Woodhouse, Bath.

Wednesday 21 September	
10.00 – 10.30	Arrival and coffee
10.30 – 11.00	Talk: Dr Peter Deuben, ECMWF Machine learning at ECMWF (online)
11.00 – 12.00	Group discussion
12.00 – 13.00	Lunch and close