AMP24 Workshop Schedule: Monday 8th July

Time	Session
9:00 – 10:00	**Registration** Zeeman Building, main entrance
10:00 – 10:15	**Opening remarks** Zeeman Building, D1.07
10:15 – 11:00	***An introduction to mathematics communication*** Kat Phillips, University of Warwick Zeeman Building, D1.07
11:00 – 11:30	**Coffee break** Zeeman Building, Maths Common Room, B1.41
11:30 – 13:00	*Session 1* Kat Phillips, University of Warwick Zeeman Building, D1.07
13:00 – 14:00	**Lunch** Zeeman Building, Maths Common Room, B1.41
14:00 – 15:30	*Session 2* Kat Phillips, University of Warwick Zeeman Building, D1.07
15:30 – 16:00	**Coffee break** Zeeman Building, Maths Common Room, B1.41
16:00 – 16:55	*Session 3* Kat Phillips, University of Warwick Zeeman Building, D1.07
16:55 – 17:00	**Closing remarks** Zeeman Building, D1.07

The goal of the workshop is to equip researchers with the skills and knowledge to effectively communicate their applied mathematics research to non-mathematical audiences, which may include the general public, policymakers and industry professionals.

The workshop will begin with an informal, interactive lecture from Kat Phillips on mathematics communication to different non-specialist audiences. Throughout the day, participants will distil their own research into its core concepts which are important to get across to any audience. They will have the opportunity to engage in small groups to create a written and/or visual piece of communication and to receive constructive feedback on their work during the hands-on activities.

AMP24 Conference Schedule: Tuesday 9th July

Time	B3.01	B3.03
9:00 – 9:45	**Registration** Zeeman Building, main entrance	
9:45 – 10:00	**Welcome** Zeeman Building, B3.03	
	Contributed talks	
	B3.01	B3.03
10:00 – 10:30	**Steering opinion dynamics through control of social networks.** Andrew Nugent, University of Warwick	**Fast and accurate computations of acoustic scattering by self-similar fractal inhomogeneities** Joshua Bannister, University of Cambridge
10:30 – 11:00	**Modelling and Predicting Online Vaccination Views using Bow-tie Decomposition** Yueting Han, University of Warwick	**ESFEM schemes for the Cahn-Hilliard equation on an evolving surface** Tom Sales, University of Warwick
11:00 – 11:30	**Financial contagion on multiplex networks** Malvina Bozhidarova, University of Nottingham	**Riemann problems in the retinal circulation** Ifeanyi Onah, University of Glasgow
11:30 – 12:00	**Coffee break** Zeeman Building, Maths Common Room, B1.41	
	Plenary talk Zeeman Building, B3.03	
12:00 – 13:00	**Making maths matter: how modelling can shape action for better public health outcomes** Dr Thomas Finnie, UK Health Security Agency	
13:00 – 14:00	**Lunch** Zeeman Building, Maths Common Room, B1.41	
	Contributed talks	
	B3.01	B3.03
14:00 – 14:30	**Spatio-Temporal Patterns forming in FitzHugh-Nagumo Model** Hardik Poptani, University of Liverpool	**First order strong convergence of the projected Euler-Maruyama method for scalar SDEs defined in the positive domain** Yiyi Tang, University of Strathclyde
14:30 – 15:00	**When brain meets information: mathematical modelling of entropy change to external stimulation** Zonglun Li, UCL	**Some algorithms for the Rao decomposition of a quasimartingale** Timothy Kang, Imperial College London
15:00 – 15:30	**_In-silico_ image-based modelling of morphogen diffusion** Yi Ting Loo, University of Warwick	**Tracking a Target Moving Randomly on a Line** Hengjian Zhang, LSE
15:30 – 16:00	**Coffee break** Zeeman Building, Maths Common Room, B1.41	
16:00 – 17:00	**Poster session** (see booklet of abstracts for poster details) Zeeman Building, A1.01 and B1.01	

AMP24 Conference Schedule: Wednesday 10th July

	Plenary talk Zeeman Building, B3.03	
10:00 – 11:00	**With no biology degree or wet lab experience, what does a mathematician reeeaally do in a bioinformatics team?** Dr Michael Pearce, Senior ML researcher at NeoChromosome	
11:00 – 11:30	**Coffee break** Zeeman Building, Maths Common Room, B1.41	
	Contributed talks	
	B3.01	B3.03
11:30 – 12:00	**Optimal curing rate in SIS epidemics** Ryan McFadden, Heriot-Watt University	**Weyl-Dirac Operators: Theory and Applications** Nikolaos Alexandrakis, University of Lancaster
12:00 – 12:30	**Existence and Stability of Solution for Time-Delayed Nonlinear Fractional Differential Equations** Shiferaw Geremew Kebede, Arba Minch University	**Automating generation of scalings for dimensional analysis** Hollis Williams, King Abdullah University of Science and Technology
12:30 – 13:00	**Separating compartmental behaviour for non-selfish individuals in an epidemic** Mark Lynch, University of Warwick	**Coupling proper generalised decomposition and overlapping domain decomposition to efficiently solve linear parametric PDEs** Ben Evans, Loughborough University
13:00 – 14:00	**Lunch** Zeeman Building, Maths Common Room, B1.41	
	Contributed talks	
	B3.01	B3.03
14:00 – 14:30	**Bayesian Optimisation for Nonconvex Two-Stage Stochastic Optimisation Problems** Jack Buckingham, University of Warwick	**Analysis and numerical approximation of stationary second-order Mean Field Game partial differential inclusions** Yohance Osborne, UCL
14:30 – 15:00	**From Less to More in 3D Reconstruction by Variational Models with Applications** Yiyao Zhang, University of Liverpool	**Modelling seawater intrusion beneath marine ice sheets** Gabriel Cairns, University of Oxford
15:00 – 15:30	**Direct Molecular Simulation of 1D Normal Shock Waves with a Neural Network Collision Model** Nicholas Daultry Ball, University of Oxford	**Applying Stochastic Dynamical System Methods to Ship Capsize Problem** Jiayao Shao, University of Warwick
15:30 – 16:00	**Coffee break** Zeeman Building, Maths Common Room, B1.41	
16:00 – 16:30	**Prizes and closing remarks** Zeeman Building, B3.03	