AMP24 Conference Schedule: Tuesday 9th July

Time	B3.01	B3.03
9:00 – 9:45	**Registration**	
9:45 – 10:00	**Welcome talk**	
	Plenary Talk	
10:00 – 11:00	*(Title TBC)* Tom Finnie, UK Health Security Agency	
11:00 – 11:30	**Coffee break**	
	Contributed talks	
	B3.01	B3.03
11:30 – 12:00	**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, UCL
12:00 – 12:30	**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
12:30 – 13:00	**Financial contagion on multiplex networks** Malvina Bozhidarova, University of Nottingham	**Riemann problems in the retinal circulation** Ifeanyi Onah, University of Glasgow
13:00 – 14:00	**Lunch**	
	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**	
16:00 – 17:00	**Poster session** (See booklet of abstracts for poster details).	

AMP24 Conference Schedule: Wednesday 10th July

	Plenary Talk	
10:00 – 11:00	**With no biology degree or wet lab experience, what does a mathematician reeeaally do in a bioinformatics team?** Michael Pearce, Senior ML researcher at NeoChromosome	
11:00 – 11:30	**Coffee break**	
	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**	
	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**	
16:00 – 16:30	**Prizes and Closing talk**	