

PROGRAMME

Thursday, 31 March

12:00 Registration and Lunch, Tea/Coffee

12:50 Welcome

Industrial talks

13:05 Arthur Brussee Games System Engineer DeepMind

13:30 Michail Vamvakaris Machine Learning Scientist Barings/X80 Security

14:00 Robert Davey Theoretical Acoustic Engineer Thales

14:25 Anastasios Andronidis Software Engineer Meta|Facebook

Coffee/Tea/Biscuits Break

Student presentations I

15:10 Word Soup: Adventures in Using Mathematics to Solve Word Games Robin Lyster

15:35 Maths in Neural Network Mohan Ren

16:00 Views on Probability Arina Belova

Coffee/Tea Break

16:40 **Alumni Panel** Matthew Taylor (Software Engineer) • Robert Davey (Theoretical Acoustic Engineer) • Tamanna Haque (Senior Data Scientist) • Amy Sharif (Head of Data Science Operations) • Amar Hussain (Data Analyst) • Rachel Beattie (Co-Founder at Careaux)

18:30 Trivia Night

Friday, 1 April

12:00 Career and Employability Session

Student presentations II

13:05 An Exploratory Data Analysis of the Impact of Breakaway Political Parties on Elections in Two-party Countries Vindev Oudit

13:30 Theory and Praxis of Equivalence, a Philosophical and Mathematical Perspective Riccardo Ali

13:55 Shapley Value and the Importance of Interpreting Models Sergio Lopez Martinez

Coffee/Tea Break and Baked Goods

14:50 **Academic Panel** Prof Louise Walker • Prof Xiaojun Zeng • Eleanor Russell, PhD student • Dr Erik Garcia Neefjes, PDRA

Student presentations III

16:00 Topology of the Hidden Space in Neural Networks Mihnea Romanovschi

16:25 Introducing Branched Flow and How to Simulate It Jakub Stavina

16:50 The Mathematics Behind Tomographic Reconstruction Sasha Parry Barnard

17:25 Closing Remarks and Awards