



Large-Scale Production Networks

Mathematical Interdisciplinary Research at Warwick (MIR@W) Day
27th January 2020

Organisers: Bazil Sansom (Warwick)
Robert Mackay (Warwick)

Speaker profiles

(Alphabetical order)

Rita Cappariello: Senior Economist in the Directorate General for Economics, Statistics and Research of the Bank of Italy. She holds a Ph.D. in Economics from the University of Ancona and an MA in Economics from the University of East Anglia. Her research covers issues related to the general field of International Macroeconomics with a focus on international trade, global value chains and protectionism.

Guven Demirel: is Lecturer in Supply Chain Management at Queen Mary University of London. He holds a PhD in Physics from the Technical University of Dresden, Germany and has previously worked as Researcher at the Max Planck Institute for the Physics of Complex Systems; as Research Fellow at the Nottingham University Business School; and Lecturer at the Essex Business School. He conducts interdisciplinary research on complex systems, investigating the stability and resilience of supply networks, international business networks, and ecological networks; the effectiveness of supplier development programs; and the co-evolution of the network structure and contact processes. He uses methods from complex networks, dynamical systems theory, operations research, and game theory.

Mark Johnson: is Associate Professor of Operations Management and Head of Group for Operations at Warwick Business School (WBS). He holds a Doctorate (EngD) and MSc from the University of Warwick. His current research examines control and coordination in operations and supply chains. His research has been published in Research Policy, the Journal of Supply Chain Management, the International Journal of Operations and Production Management, the International Journal of Production Economics and the International Journal of Physical Distribution and Logistics Management amongst others. His work, with Antony Karatzas (NBS) and Marko Bastl (Marquette) was awarded the Journal of Supply Chain Management best empirical paper for 2016.

Jose Moran: A final year PhD candidate at the "Centre d'Analyse et de Mathématiques Sociales" (CAMS/EHESS) and at Capital Fund Management. Jose graduated from École polytechnique and École Normale Supérieure where he studied statistical and condensed matter physics. His research interests are interdisciplinary applications of statistical physics. His main focus is on firm-level empirical data and theoretical models to understand the dynamics that lead to large economic fluctuations, with a particular interest in how idiosyncratic shocks are amplified along the supply chain. He also investigates complex systems models for herding, habit formation/choice theory and price formation.

Anton Pichler: is a DPhil student in Mathematics at the University of Oxford under the supervision of Professor Dooyne Farmer and Professor Cameron Hepburn. His research interest encompass technological evolution, innovation and complex economic networks. In his thesis, Anton develops methods for technology forecasting which incorporate economic network data with a special focus on green energy technologies. Anton holds a BA in Political Science and a BSc in Economics, both awarded by the University of Vienna. He completed the MSc degree in Quantitative Finance at the Vienna University of Economics and Business. Anton is also an junior external faculty member of the Complexity Science Hub Vienna.

Ivana Ruffini: is Managing Director of Advanced Analytics at Financial Network Analysis (FNA). Where she helps develop algorithms to analyse and visualize complex data and predict likely outcomes. In addition to incorporating network theory in modelling financial markets, her research interests include the development of predictive analytics that utilizes ML and Bayesian modelling. Prior to FNA she worked for nine years at the Federal Reserve Bank of Chicago, where she focused on modelling propagation of risks through the global financial system and issues in payment systems and financial market infrastructure. She has also worked as a private equity investment professional, a derivatives trader, and a credit risk specialist - prior employers include Baird Capital Partners, One Equity Partners, and JPMorgan. Ivana graduated with honors from Denison University and did her graduate studies at Northwestern University.

Bazil Sansom: is an economist (PhD economics University of Kingston and MSc Economics the University of East Anglia). He is currently post-doctoral researcher at the University of Warwick and a contributor to Rebuilding Macroeconomics' Macroeconomic Instability Hub. He has formerly worked as an economic advisor for the UK civil service and in international banking. His research interests are primarily in macroeconomics, housing markets and topics in macro-finance. One of his main research interests is to understand economic fluctuations including business cycle dynamics and financial market volatility and crises. He employs a range of methods from complex networks, dynamical systems theory and signal processing, with a strong empirical emphasis.

VENUE: B3.02 Mathematics Institute (Zeeman Building)
University of Warwick, Coventry, CV4 7AL