Kieran Marray

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Education	**Tinbergen Institute**	2020-Present
	Research Masters (MPhil) in Economics (starting August 2020)	
	University of Oxford	2016-2019
	BA in Philosophy, Politics and Economics, specialising in Economics and Philosophy	
	Mark: 2:1 (67.6 average)	
	Independent research projects:	
	Thesis in Philosophy (top in PPE)	
	Title: 'Can Blaise Meet Bayes? Bayesian Decision Theory and Radical Uncertainty'	
	Supervisor: Dr Teru Thomas	
	Behavioural and Experimental Economics (top in cohort):	
	Title: 'Do Unrealistic Expectations Cause Misguided Learning?'	
	Supervisor: Dr Johannes Abeler	
Employment	**Oxford Mathematical Institute, University of Oxford**	2019-Present
	Research Assistant	
	Supervisors: Prof. J. Doyne Farmer and Dr François Lafond	
	Topic: Panel Data Econometrics/Econometrics on Networks	
	Smith School of Enterprise and the Environment, University of Oxford	2019
	Research Assistant	
	Supervisor: Dr Stefania Innocenti	
	Topic: Experimental Game Theory	
	Interserve Consulting	2017
	Intern in Environmental Consulting	
	Developed a natural capital model for the Wildlife Trust. Used the model to value the Wigan Flashes.	
Affiliations	**Programme on Complexity Economics**, Institute for New Economic Thinking at the Oxford Martin School	
	Oxford Martin Programme on the Post-Carbon Transition, Oxford Martin School	
Working Papers	'How Do Expectations Affect Learning About Fundamentals? Some Experimental Evidence' (with Nikhil Krishna, and Jarel Tang)	
	Under review, *Games and Economic Behaviour*	
	Available at `https://arxiv.org/pdf/2002.07229.pdf`	
	We experimentally test whether confidence affects learning about fundamentals. We find no evidence of a causal effect. We use machine learning to identify potential heterogeneous treatment effects. We find no evidence that confidence affects learning in any sub–sample.	
Selected Ongoing Research	'Multi–Dimensional Spillovers Predict Firm Productivity' (with François Lafond, J. Doyne Farmer, and others)	
	We use NLP to construct spillovers between firms that are part of the same supply chain, patent similar technologies, and compete in similar markets. Including spillovers allows us to better explains and forecast firm productivity.	

Awards and Acheivements	**Tinbergen Institute Scholarship**	2020-Present
	Merit–based scholarship given by the Tinbergen Institute to some incoming MPhil students. Won max award, total value 14400 euro/yr plus free tuition	
	Laidlaw Research Scholarship	2018-2019
	Funding to carry out an independent research project at any university in the world given to select Oxford undergraduates/masters students Title: 'FORTEC: An Empirical Forecasting Model of the Development of Artificial Intelligence Up to 2050' Host: Department of Computational Social Science, George Mason University Supervisor: Professor Rob Axtell	
Invited Talks	Network Economics Research Group, **University of Oxford**	2020
	Future of Work Conference, **Mercatus Centre** Lunchtime Seminar, **Demos** Networks Seminar, **Oxford Mathematical Institute**	2019
	Agent-Based Modelling Seminar, **Oxford Martin School** Complexity Economics Seminar, **Institute for New Economic Thinking at the Oxford Martin School** Weekly Seminar, **Complex Human-Environmental Systems Simulation Lab** Computational Social Science and Computational and Data Sciences Research Colloquium, **George Mason University** Ockham Society, Faculty of Philosophy, **University of Oxford** Catz Exchange Conference, St Catherine's College, **University of Oxford**	2018
	Risk, Uncertainty, and Catastrophe Scenarios Workshop, ESRC Workshop Series on Climate Ethics and Economics, **University of Cambridge**	2017
Other Conferences and Workshops Attended	*3rd Oxford Workshop on Global Priorities Research*, Global Priorities Institute, University of Oxford Volunteer and Judge, *Oxford Summer School on Economic Networks*, Oxford Mathematical Institute	2019
Advisory Committees	*Forecasting Forum on Automation of Research Occupations*, Demos *Advising Demos on forecasting computerisability of research occupations*	2019
Research Groups	*Network Economics Research Group*, Department of Economics, University of Oxford *Network Econometrics Reading Group*, University of Oxford *Junior Researcher Seminar Series on Random Matrix Theory*, Oxford Mathematical Institute	2019-Present
Teaching	*Introduction to Effective Altruism* Seminar Series, Effective Altruism Oxford	2018
MOOCs	*Linear Algebra: Foundations to Frontiers*, Texas A&M	2019
	Writing in the Sciences, Stanford University (audited)	2018
Programming Experience	**Python**: Matrix operations, data manipulation and visualisation, panel-data econometrics, unsupervised learning, agent-based modelling, Monte-Carlo simulation, networks, R-Python interfaces **R**: Matrix operations, regression, panel-data econometrics, data manipulation and visualisation, networks **Netlogo**: Agent-based modelling, simulated annealing	
Unprofessional Activities	Squash, rock-climbing, effective altruism, and politics	