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EDUCATION

2010-2013, *PhD (DPhil) in Economics*, University of Oxford
2008-2010, *MPhil in Economics*, University of Oxford
2005-2008, *BSc in Economics*, London School of Economics and Political Science

PROFESSIONAL EXPERIENCE

2021 – Present, *Academic Affiliate*, Compass Lexecon
2010-2011, *Consultant, Office of Chief Economist*, European Bank for Reconstruction and Development

ACADEMIC EXPERIENCE

2017- Present, Associate Professor, University of Oxford
2017 - Visiting Assistant Professor, Department of Economics, M.I.T
2014-2017, Otto Poon Research Fellow, Institute for New Economic Thinking (INET), University of Oxford
2013-2014, Postdoctoral Fellow, Massachusetts Institute of Technology

Affiliations

Research Affiliate (I.O.), Centre for Economic Policy Research, 2021 – Present
Senior Research Fellow, INET, 2019 – Present
Human Capital and Economic Opportunity Global Working Group, 2017 - Present
External Fellow, Centre for Mechanism and Institution Design, 2018 – Present
Deputy Director, Economics of Sustainability Group, inet and S.S.E.E., 2017–2019
Advisory Group, Rockefeller Economic Council on Planetary Health, 2018–2019

RESEARCH

Primary fields: Applied Microeconomic Theory
Secondary fields: Market Design, Auctions, Economics of Networks, Environmental Economics

TEACHING

Undergraduate

- Microeconomics (2nd year, Competitive Markets and Welfare, lectures and tutorials, Oxford, 2017-)
- Networks (economics/engineering joint course, Economics of Networks, lectures, M.I.T., 2017)

Graduate

- Microeconomics (1st year, Welfare and Public Economics, Oxford, 2021-)
- Advanced Microeconomics (2nd year, Matching Markets and Networks, lectures, Oxford, 2017-)

SELECTED PUBLICATIONS

Placement optimization in refugee resettlement, (with Narges Ahani, Tommy Andersson, Alessandro Martinello, and Andrew C. Trapp), *Operations Research*, forthcoming. Stability in matching markets with complex constraints (with Hai Nguyen and Thanh Nguyen), *Management Science*, forthcoming.

Collective dynamics of dark web marketplaces (with Abeer ElBahrawy, Laura Alessandretti, Leonid Rusnac, Daniel Goldsmith, and Andrea Baronchelli), *Nature Scientific Reports*, 10:18827, 2020.

Economic complexity and the green economy (with Penny Mealy), *Research Policy*, 2020.

Trading networks with frictions (with Tamas Fleiner, Ravi Jagadeesan, and Zsuzsanna Janko), *Econometrica*, 87(5): 1633-1661, 2019.

Targeted carbon tax reforms (with Maia King and Bassel Tarbush), *European Economic Review*, 119: 526-547, 2019.

Interpreting economic complexity (with Penny Mealy and J. Doyne Farmer), *Science Advances*, 5(1):eaau1705, 2019.

Social groups and social network formation (with Bassel Tarbush), *Games and Economic Behavior*, 103: 286-312, 2017.

Gross substitutes and complements: A simple generalization, *Economics Letters*, 123(2): 135-138, 2014.

In other disciplines:

Data Science

Dark web marketplaces and COVID-19: before the vaccine (with Alberto Bracci, Matthieu Nadini, Maxwell Aliapoulos, Damon McCoy, Ian Gray, Angela Gallo, and Andrea Baronchelli), *European Physical Journal: Data Science*, 10(6), 2021.

Electrical Engineering

Integrating P2P energy trading with probabilistic distribution locational marginal pricing (with Thomas Morstyn, Cameron Hepburn, and Malcolm McCulloch), *IEEE Transactions on Smart Grid*, 11(4): 3095-3106, 2020.

Designing decentralized markets for distribution system flexibility (with Thomas Morstyn and Malcolm McCulloch), *IEEE Transactions on Power Systems*, 34(3): 2128-2139, 2019.

Bilateral contract networks for peer-to-peer energy trading (with Thomas Morstyn and Malcolm McCulloch), *IEEE Transactions on Smart Grid*, 10(2):2026-2035, 2019.

Refugee Studies

The Local Refugee Match: Aligning refugees' preferences with the capacities and priorities of localities (with Will Jones), *Journal of Refugee Studies*, 2017.

Matching systems for refugees (with Will Jones), *Journal of Migration and Human Security*, 5(3): 666-680, 2017.

The International Refugee Match: A system that respects refugees' preferences and the priorities of states (with Will Jones), *Refugees Survey Quarterly*, 36(2): 84-109, 2017.

Choices, preferences and priorities in a matching system for refugees (with Will Jones), *Forced Migration Review*, 51: 80-82, 2016.

Reviews, book chapters, and permanent working papers

"Discovering Auctions: Contributions of Paul R. Milgrom and Robert B. Wilson" (with © Shengwu Li © Scott Duke Kominers © Mohammad Akbarpour © Piotr Dworzak), *Scandinavian Journal of Economics*, 2021.

The parable of the auctioneer: Complexity in Paul R. Milgrom's Discovering Prices (with Scott Duke Kominers), *Journal of Economic Literature*, 58(4), 2020.

Adaptive targeted infectious disease testing (with Max Kasy), *Oxford Review of Economic Policy*, 36(S1): S77-S93, 2020.

Is natural capital really substitutable? (with François Cohen and Cameron Hepburn), *Annual Review of Environment and Resources*, 44(1): 425-448, 2019.



Networks and economic policy (with Matt Elliott and Sanjeev Goyal), *Oxford Review of Economic Policy*, 35(4): 565–585, 2019.

Steering the climate system: an extended comment (with Linus Mattauch, Richard Millar, Frederick van der Ploeg, Armon Rezai, Anselm Schultes, Frank Venmans et al.), Centre for Climate Change Economics and Policy Working Paper No. 347 and Grantham Research Institute on Climate Change and the Environment Working Paper No. 315, 2019.

Natural capital market design, *Oxford Review of Economic Policy*, 35(1): 138-161, 2019.

Green growth (with Cameron Hepburn and Alex Pfeiffer), *The New Oxford Handbook of Economic Geography* (edited by Gordon L. Clark, Maryann P. Feldman, Meric S. Gertler, and Dariusz Wójcik), Chapter 40, 2018.

An invitation to market design (with Scott Duke Kominers and Vincent P. Crawford), *Oxford Review of Economic Policy*, 33(4): 541-571, 2017.

Climate change policy after Brexit (with Cameron Hepburn), *Oxford Review of Economic Policy*, 33(S1): S144–S154, 2017.

Reforming the EU ETS – Where are we now? (with Cameron Hepburn), *Energy Tax and Regulatory Policy in Europe: Reform Priorities* (edited by Ian Parry, Karen Pittel, and Herman Vollebergh), Chapter 1, The MIT Press, 2017.

The third wave in the economics of climate change (with J. Doyne Farmer, Cameron Hepburn and Penny Mealy), *Environment and Resource Economics*, 62(2): 1-29, 2015.

Innovation, path dependence and climate policy (with Philippe Aghion, Cameron Hepburn and Dimitri Zenghelis), Centre for Climate Change Economics and Policy Grantham Research Institute on Climate Change and the Environment Policy Paper, 2014.

Resilient and inclusive prosperity within planetary boundaries (with Eric Beinhocker, J. Doyne Farmer and Cameron Hepburn), *China & World Economy*, 22(5): 1-16, 2014.

Political economy of climate change policy (with Franklin Steves), Smith School for Enterprise and the Environment Working Paper 13-02, 2013.

Part II: Policy instruments for sustainable road transport (with Georgina Santos and Hannah Behrendt), *Research in Transportation Economics*, 28(1): 46-91, 2010.

Part I: Externalities and economic policies in road transport (with Georgina Santos, Hannah Behrendt, Laura Maconi and Tara Shirvani), *Research in Transportation Economics*, 28(1): 2-45, 2010.

Working papers

Adaptive combinatorial allocation (with Max Kasy), 2020.

EPIC fail: How below-bid pricing backfires in multiunit auctions (with Sanna Laksa and Daniel Marszalec), 2020.

Matching mechanisms for refugee resettlement (with David Delacretaz and Scott Duke Kominers), 2020.

An adaptive targeted field experiment: Job search assistance for refugees in Jordan (with Stefano Caria, Simon Quinn, Max Kasy, Grant Gordon, and Soha Osman), 2020.

The Equilibrium Existence Duality (with Elizabeth Baldwin, Omer Edhan, Ravi Jagadeesan, and Paul Klempner), 2019

Contagion in graphons (with Selman Erol and Francesca Parise), 2019.

Complexity of stability in trading networks (with Tamas Fleiner, Zsuzsanna Janko, and Ildiko Schlotter), 2020.

Trading networks with bilateral contracts (with Tamas Fleiner, Zsuzsanna Janko, and Akihisa Tamura), 2018.

A simple model of cascades in networks (with Yongwhan Lim and Asuman Ozdaglar), 2016.