

Elizabeth Baldwin

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Current Academic Positions

- 2017 – Associate Professor, Department of Economics, Oxford University.
- 2017 – Roger Van Noorden Tutorial Fellow in Economics, Hertford College, Oxford.

Consulting Experience

- 2019 – 2021 Designed auction for subsidies for turtle dove food and habitat provision, for the Royal Society for the Protection of Birds, with Paul Klemperer and Alex Teytelboym.
- 2012 – 2019 Consultant on auctions for renewable energy subsidies to UK Department of Business, Energy and Industrial Strategy (formally Department of Energy and Climate Change).
- 2011 – Adviser on auction design to the Bank of England, with Paul Klemperer.

Previous Academic Positions

- 2014 – 2017 Co-investigator, Economic and Social Research Council project: “Auctions for Multiple Goods, and Understanding Consumer Preferences”, ES/L003058/1.
- 2016 – 2017 Research Fellow, Department of Economics, Oxford University.
- 2016 – 2017 Research Fellow, Nuffield College, Oxford University.
- 2016 – 2017 Visiting Fellow, Grantham Research Institute on Climate Change and the Environment, London School of Economics.
- 2014 – 2016 Post-doctoral Research Officer, Grantham Research Institute on Climate Change and the Environment, London School of Economics.
- 2006 – 2008 Fulford Junior Research Fellow, Somerville College, Oxford University.
Post-doctoral Research Assistant, Mathematical Institute, Oxford University.
- 2006 Post-doctoral Researcher, Mittag-Leffler Institute, Sweden.

Research

Working Papers / Work in Progress

“Demand Types, Income Effects, and Equilibrium”.

With Omer Edhan, Ravi Jagadeesan, Paul Klemperer and Alex Teytelboym.

“On Consumer Theory with Indivisible Goods”.

With Ravi Jagadeesan, Paul Klemperer and Alex Teytelboym.

“Implementing Walrasian Equilibrium – the Language of Product-Mix Auctions”.

With Paul Klemperer and Edwin Lock.

(This will subsume “Proof that the Product-Mix Auction Bidding Language can represent any Substitutes Preferences”, with Paul Klemperer.)

“Choosing in the Dark: Incomplete Preferences, and Climate Policy”.

“Tropical Geometry to Analyse Demand”.

With Paul Klemperer.

Publications

“Solving Strong-Substitutes Product-Mix Auctions”.

With Paul Goldberg, Paul Klemperer and Edwin Lock.

Mathematics of Operations Research, in press.

“The Equilibrium Existence Duality”.

With Ravi Jagadeesan, Paul Klemperer and Alex Teytelboym.

Journal of Political Economy, 131(6):1440-1476, 2023.

“Strong Substitutes: Structural Properties, and a New Algorithm for Competitive Equilibrium Prices”.

With Martin Bichler, Maximilian Fichtl and Paul Klemperer.

Mathematical Programming, 2022.

“To Build or Not To Build? Capital Stocks and Climate Policy”.

With Yongyang Cai and Karlygash Kuralbayeva.

Journal of Environmental Economics and Management, 100:102235, 2020.

“Understanding Preferences: “Demand Types”, and the Existence of Equilibrium with Indivisibilities”.

With Paul Klemperer.

Econometrica 87(3):867-932, 2019.

“Spatial Development of Hydrogen Economy in a Low-Carbon UK Energy System”.

With Nazmiye Balta-Ozkan.

International Journal of Hydrogen Energy, 38:1209 – 1224, 2013.

“A Geometric Invariant Theory Construction of Moduli Spaces of Stable Maps”.

With David Swinarski.

International Mathematics Research Papers, 2008:rpn004, 2008. 104 pages.

“A GIT Construction of Moduli Spaces of Stable Maps in Positive Characteristic”.

Journal of the London Mathematical Society, 78(1):107-124, 2008.

Invited Presentations

Arizona State University (remote); University of California, Berkeley (upcoming); Technische Universität Berlin; Bielefeld University; Bocconi University (remote); Universität Bonn; Bristol University; Cambridge University; CERGE-EI, Prague; CESifo, Munich; Geneva University; Hokkaido University; Environmental Defense Fund, London; Exeter University; Institut Henri Poincaré; Department of Economics, Grantham Research Institute and Department of Mathematics, London School of Economics; Lund University; Department of Mathematics and Department of Economics, Manchester University; Mittag-Leffler Institute, Stockholm; Northwestern University; Global Priorities Institute, Mathematical Institute, Institute for New Economic Thinking and Department of Economics, Oxford; Pennsylvania State University; Princeton University (remote); Stockholm School of Economics; Stockholm University; University of Tokyo (remote); University College London; Vanderbilt University; Warwick University; Yale University; York University; University of Zurich.

Education

- 2010 – 2014 DPhil in Economics, Oxford University.
- 2008 – 2010 MPhil in Economics, Oxford University. Distinction.
- 2003 – 2006 DPhil in Mathematics, Oxford University.
- 1999 – 2003 MMath in Mathematics, Oxford University. 1st class honours.

Prizes, Scholarships and Fellowships

- 2017 – Affiliate Member, CESifo Research Network.
- 2017 Visiting Researcher, Mittag-Leffler Institute, Sweden.
- 2014 – 2016 Associate Member, Nuffield College, Oxford University.
- 2013 – 2016 Visiting Fellow, Smith School of Enterprise and Environment, Oxford University.
- 2011 – 2014 Linnet Scholarship in Environmental Economics, Balliol College, Oxford University.
- 2010 University prize, MPhil in Economics (first of 39 graduating students).
- 2008 – 2011 Studentship, Nuffield College, Oxford University.
- 2003 – 2006 Doctoral studentship, Engineering and Physical Sciences Research Council.
- 2003 Junior Mathematics Prize, Oxford University.
Takashi Kisaki Prize, Wadham College, Oxford University.