# Ellen Muir

## Personal Details

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## Current Academic Positions

**Assistant Professor** in Applied Economics, MIT Sloan School of Management 2024 –
**Class of 1958 Career Development Assistant Professor**, MIT Sloan 2025 –
**Faculty Associate**, Joint Center for History and Economics, Harvard University 2024 –

## Refereed Publications

"The matching benefits of market thickness" with Simon Loertscher, *Games and Economic Behavior*, 153: 42–66, 2025

"Market power, randomization and regulation" with Simon Loertscher, *International Journal of Industrial Organization* [Special issue for "The 50th Annual Conference of the European Association for Research in Industrial Economics, Rome, 2023"], 96, 2024

"Monopoly pricing, optimal randomization, and resale" with Simon Loertscher, *Journal of Political Economy*, 130(3): 566–635, 2022

"Optimal market thickness" with Simon Loertscher and Peter Taylor, *Journal of Economic Theory*, 200, 2022

"Road to recovery: Managing an epidemic" with Simon Loertscher, *Journal of Mathematical Economics* [Special issue on "The economics of epidemics and emerging diseases"], 93, 2021

"A general noncentral hypergeometric distribution" with Simon Loertscher and Peter Taylor, *Communications in Statistics – Theory and Methods*, 46(9): 4579–4598, 2017

"Approximating the equilibrium quantity traded and welfare in large markets" with Konstantin Borovkov, *Stochastic Models*, 33(3): 411–429, 2017

## Working Papers

"A mechanism-design approach to property rights" with Piotr Dworczak
Revise and resubmit at *Econometrica*; accepted for presentation at EC'24

"Optimal Hotelling Auctions" with Simon Loertscher
Reject and resubmit at the *American Economic Review*

"Optimal labor procurement under minimum wages and monopsony power" with Simon Loertscher
Revise and resubmit at the *American Economic Journal: Microeconomics*

"Contracting and vertical control by a dominant platform" with Zi Yang Kang
Accepted for presentation at EC'22; taught in a tutorial at EC'23

## Previous Academic Positions

**Prize Fellow** in Economics, History and Politics, Harvard University 2022 – 2024
**Associate**, Department of Economics, Harvard University 2022 – 2024
**Postdoctoral Fellow**, Abdul Latif Jameel Poverty Action Lab (J-PAL), MIT 2022 – 2024
**Research Visitor**, Department of Economics, MIT 2022 – 2024
**Postdoctoral Fellow**, School of Mathematics and Statistics, University of Melbourne 2017

## Education

**Ph.D. in Economics**, Stanford University 2017 – 2022
**Ph.D. in Mathematics and Statistics**, University of Melbourne 2014 – 2017
**M.Sc. in Mathematics and Statistics**, University of Melbourne 2012 – 2013
**B.Sc. in Mathematics and Statistics**, University of Melbourne 2009 – 2011

## Courses Taught

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|---|---|
| Advanced Topics in Industrial Organization (Sloan PhD course 15.S71) | 2025 |
| Game Theory for Strategic Advantage (Sloan EMBA course 15.741) | 2025 |
| Economic Analysis for Business Decisions (Sloan MBA course 15.010) | 2024 – 2025 |

## Selected Awards & Scholarships

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|---|---|
| MIT Sloan Junior Faculty Research Assistance Program (JFRAP) Grant | 2025 |
| *Review of Economic Studies* (REStud) Tour | 2022 |
| 7th Lindau Nobel Laureate Meeting on Economic Science | 2022 |
| SIEPR Bradley Graduate Fellowship, Stanford University | 2021 – 2022 |
| Visiting Research Scholar, University of Melbourne | 2018, 2019, 2022, 2023 |
| Economics Department Fellowship, Stanford University | 2017 – 2018 |
| ARC Australian Laureate Fellowship Postgraduate Award | 2014 – 2017 |
| Elizabeth and Vernon Puzey Scholarship, University of Melbourne | 2014 – 2017 |
| Professor Wilson Prize in Mathematics, University of Melbourne | 2013 |
| Mathematics and Statistics School Scholarship, University of Melbourne | 2012 – 2013 |
| Melbourne National Scholarship, University of Melbourne | 2009 – 2011 |

## Refereeing

*American Economic Journal: Microeconomics*; *American Economic Review*; *American Economic Review Insights*; *Communications in Statistics – Theory and Methods*; *Econometrica*; *Economic Letters*; *Games and Economic Behavior*; *International Journal of Game Theory*; *Journal of Economics and Management Strategy*; *Journal of Economic Theory*; *Journal for the European Economic Association*; *Journal of Law and Economics*; *Journal of Political Economy*; *Journal of Political Economy Microeconomics*; *Proceedings of the National Academy of Science of the United States of America*; *Quarterly Journal of Economics*; *RAND Journal of Economics*; *Review of Economic Studies*; *Theoretical Economics*

## Professional Activities

Program Committee Member, EC'25 (2025 ACM Conference on Economics and Computation)

Market Design Session Organizer, 2024 Stanford Institute for Theoretical Economics (SITE)

Program Committee Member, 7th World Congress of the Game Theory Society

Market Design Session Organizer, 2023 Stanford Institute for Theoretical Economics (SITE)

Program Committee Member, EC'23 (2023 ACM Conference on Economics and Computation)

Program Committee Member, EC'21 (2021 ACM Conference on Economics and Computation)

Postgraduate Programs Committee Member, University of Melbourne (2014 – 2017)

## Professional Affiliations

American Economic Association; Econometric Society; Game Theory Society; Society for the Advancement of Economic Theory; Association for Computing Machinery; Australian Mathematical Society; ARC Centre of Excellence for Mathematical and Statistical Frontiers (2014 – 2017)

## Seminar Presentations

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| Bristol; Cambridge; LSE; Oxford; Penn State; Cornell; Luiss University; Mannheim; Humboldt University of Berlin; UBC | 2025 |
| USC; Columbia; Ohio State University; Boston College | 2024 |
| University of Melbourne; Notre Dame; Carnegie Mellon/Pittsburgh; Rotman School of Management; Michigan State; Brown; Microsoft Research New England; Boston University; Harvard/MIT; Cergy Paris | 2023 |
| Princeton; NYU; Harvard; Caltech; Kellogg MEDS; MIT Sloan; Chicago Booth; NYU Stern; Wharton BEPP; Northwestern; UCLA; UPenn; Columbia Business School; SET: Seminars in Economic Theory "Not the 2022 Theory Market" (Virtual); University of Warwick; REStud Tour (University of Manchester, Central European University, Paris | 2022 |

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|---|---|---|
| | School of Economics); Frontiers of Economic Design (Virtual); University of Melbourne; Toulouse School of Economics; Harvard/MIT; Birmingham; CEPR Virtual IO Seminar; Yale; Berkeley; Virtual Seminars in Economic Theory; Virtual MD Seminar Series | |
| | Monash University | 2021 |
| | University of Melbourne | 2020 |
| | University of Oxford; Google Research; University of Melbourne | 2019 |
| | University of Chicago (Guest lecture in Econ 40603/Business 33915 Market Design); Monash University; University of Melbourne; Paris School of Economics | 2018 |
| | UNC at Chapel Hill | 2017 |
| | École Polytechnique Fédérale de Lausanne; University of Queensland | 2016 |
| Conference Presentations | Australian Economic Theory Workshop (UNSW); Chicago Booth Market Design Conference; EARIE (Valencia) | 2025 |
| | ASSA Annual Meeting (San Antonio); SAET (Santiago); Australian Economic Theory Workshop (Melbourne); Eastern Economic Association Annual Conference (Boston); Women in Economic Theory Conference (New York); Canadian Economic Theory Workshop (Toronto); Chicago Booth Market Design Conference; EC'24 (New Haven); International Conference on Game Theory (Stony Brook); GAMES 2024 (Beijing); EARIE (Amsterdam); NYU Stern IO Day | 2024 |
| | ASSA Annual Meeting (New Orleans); Triangle Micro Conference (UNC at Chapel Hill); Penn/Wharton Economic Theory Workshop; Hal White Antitrust Conference (Washington DC); Institute for Employment Research (IAB) Workshop on Imperfect Competition in the Labor Market (Nuremberg); Markets, Contracts and Organizations Conference (Canberra); EC'23 Tutorial (Virtual); Berkeley/Columbia/Duke/MIT/ Northwestern IO Theory Conference (Evanston); Christmas Microeconomic Theory Conference (Bonn) | 2023 |
| | Hal White Antitrust Conference (Washington DC); Society for the Advancement of Economic Theory (Canberra); Luohan Academy Ideas in Action Forum on Platform Economy and Mechanism Design (Virtual); Women in Economic Theory (Keynote Speaker, UChicago); 9th Annual ASU Economic Theory Conference | 2022 |
| | ASSA Annual Meeting (Virtual); Australasian Economic Theory Workshop (Virtual); Asia-Pacific IO Conference (Virtual) | 2021 |
| | Stanford/MIT COVID-19 Policy Hackathon (Virtual); 2020 Delhi School of Economics and the Econometric Society Winter School (Virtual) | 2020 |
| | INFORMS Applied Probability Society Conference (Brisbane); YoungEC'19 (Tel Aviv) | 2019 |
| | CME Group-MSRI Prize Prize in Innovative Quantitative Applications Panel (Chicago); Queues, Modelling and Markov Chains: A Workshop Honouring Professor Peter Taylor (Mount Tamborine) | 2018 |
| | Australasian Economic Theory Workshop (Auckland); Applied Probability at the Rock (Yulara); Stochastic Processes and their Applications (Moscow) | 2017 |
| | Melbourne IO and Theory Day; Columbia/Duke/MIT/Northwestern IO Theory Conference (JIE Fellow Session, Evanston); Australasian Meeting of the Econometric Society (Sydney) | 2016 |
| | Australian and New Zealand Applied Probability Workshop (Barossa Valley); Australia and New Zealand Industrial and Applied Mathematics Conference (Gold Coast) | 2015 |
| Conference & Seminar Discussions | "Competitive Markets for Personal Data" by Galperti, Liu and Perego, ASSA Annual Meeting (2025) | |

"Acquiring Monopsony Power" by Heski Bar-Issac, Justin Johnson and Volker Nocke, 16th Annual Northwestern Antitrust Economics Conference (2024)

"Screening with Persuasion" by Stephen Morris, Dirk Bergemann and Tibor Heumann, Virtual Seminars in Economic Theory (2023)

"Regulating Dynamic Contracts" by Dhruva Bhaskar and Andrew McClellan, NYU Stern IO Day (2023)