

BARTON E. LEE

Curriculum Vitae, September 2022

CONTACT INFORMATION

Chair of Political Economy and eDemocracy
Dep. of Management, Technology, and Economics
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POSITIONS HELD

Sep. 2022 - *present* Assistant Professor (tenure track) and
Chair of Political Economy and eDemocracy
Dept. Management, Technology, and Economics, ETH Zürich

2021-2022 Fellow by Examination (JRF), Magdalen College, University of Oxford

2019 Visiting Fellow, Harvard University (EconCS group)

EDUCATION

2017-2021 PhD Economics, University of New South Wales (UNSW)
Dissertation title: *Essays in Political Economics*
Advisors: Richard Holden, Gabriele Gratton, Haris Aziz
Dean's Award for Outstanding PhD Thesis

2018 Non-degree graduate student (Economics Dept.), Harvard University

2011-2015 BCom/BSc: Economics & Advanced Mathematics, UNSW
Honours (Class I), Pure Mathematics

RESEARCH AND TEACHING INTERESTS

Fields: Political Economics; Applied Theory/Formal Theory; EconCS

HONORS AND AWARDS

- 2021 Winner of the Oliver Williamson Best Paper Award at Society for Institutional & Organizational Economics (SIOE) Conference
- 2021 UNSW Dean's Award for Outstanding PhD Thesis
- 2020 Selected to participate in the 7th Lindau Nobel Laureate Meeting on Economics Sciences
- 2020 John McMillan Prize for the Best PhD Paper in Economics for "Gridlock, leverage, and policy bundling"
- 2018 John McMillan Prize for the Best PhD Paper in Economics for "Feigning politicians"
- 2017 Scientia PhD Fellowship and Data61 PhD Fellowship
- 2015 UNSW Advanced Mathematics Honours Scholarship
- 2014 UNSW First-placed Advanced Mathematics Student

PUBLICATIONS

Journal Articles

1. "Liberty, security, and accountability: The rise and fall of illiberal democracies"
(with G. Gratton),
Review of Economic Studies [accepted]
 - ★ Winner of the Oliver Williamson Best Paper Award at 2021 SIOE Conference.
 - ★ In the media: *ProMarket* article "Governments Were Forced to Restrict Civil Liberties to Deal With Covid-19. More Flexible Constitutions Could Prevent That from Becoming the New Normal"—10/20/2021.
2. "Gridlock, leverage, and policy bundling"
Journal of Public Economics, 212, 2022.
3. "A characterization of proportionally representative committees" (with H. Aziz),
Games and Economic Behavior, 133, 2022, pp. 248–255.
4. "Political capital" (with G. Gratton and R. Holden),
Journal of Law, Economics, and Organization [forthcoming].
5. "The capacity constrained facility location problem" (with H. Aziz, H. Chan, and D.C. Parkes),
Games and Economic Behavior, 124, 2020, pp. 478–490.
6. "The expanding approvals rule: Improving proportional representation and monotonicity"
(with H. Aziz),
Social Choice and Welfare, 54(1), 2020, pp. 1–45.
7. "Voting on large graphs: An application of graph limit theory"
Discrete and Continuous Dynamical Systems - Series A, 38(4), 2018, pp. 1719–1744.

Working Papers

1. "Feigning politicians"
2. "Legislative hostage-taking" (with G. Andreottola)
3. "Strategyproof and proportionally fair facility location" (with H. Aziz, A. Lam, and T. Walsh)

4. “Proportionally Representative Clustering” (with H. Aziz and S. Morota Chu)

Conference Publications

1. “Strategyproof and proportionally fair facility location” (with H. Aziz, A. Lam, and T. Walsh), **Conference on Web and Internet Economics (WINE)**, 2022. [Abstract only]
2. “Proportionally representative participatory budgeting with ordinal preferences” (with H. Aziz), **Conference on Artificial Intelligence (AAAI)**, 2021, pp. 5110–5118.
3. “Facility location problem with capacity constraints: Algorithmic and mechanism design perspectives” (with H. Aziz, H. Chan, B. Li, and T. Walsh), **Conference on Artificial Intelligence (AAAI)**, 2020, pp. 1806–1813.
4. “The political economy of blockchain governance” (with D.J. Moroz and D.C. Parkes), **Cryptoeconomic Systems (MIT Press: online journal)**, 2020. [Abstract only]
5. “The capacity constrained facility location problem” (with H. Aziz, H. Chan, and D.C. Parkes), **Conference on Web and Internet Economics (WINE)**, 2019, pp. 336. [Abstract only]
6. “Proportionally representative participatory budgeting: Axioms and algorithms” (with H. Aziz and N. Talmon), **International Conference on Autonomous Agents and Multiagent Systems (AAMAS)**, 2018, pp. 23–31.
7. “Sub-committee approval voting and generalized representation axioms” (with H. Aziz), **AAAI/ACM conference on AI, Ethics, and Society (AIES)**, 2018, pp. 3–9.

CONFERENCE PRESENTATIONS AND INVITED TALKS (* SCHEDULED)

- 2023 Stanford GSB Political Economy Seminar (*)
- 2022 UC3M Microeconomics Seminar (*); University of Lausanne (*); University of Oxford (Economic Theory workshop); ETH Zürich (Workshop on Democracy | Discussant); European Political Science Association (EPSA, Prague)
- 2021 ETH Zürich (D-MTEC); European Political Science Association (EPSA, virtual); University of Oxford (ADT group); University of Oxford (Econ postdoc seminar)
- 2020 University of Chicago (Harris School of Public Policy); Australasian Microeconomic Theory Seminar (AMETS); Australian Political Economy Network (APEN); Australasian Economic Theory Workshop (AETW–Adelaide University)
- 2019 Harvard University (Government Department); MIT Media Lab (DCI Research Group); Bocconi University (Consequences of Populism Workshop); Australasian Public Choice Conference (APCC–Queensland University of Technology); Organizational Economics Workshop (OEW–Australian National University)

- 2018 Harvard University (EconCS Group); Rensselaer Polytechnic Institute (CS Department);
M-PREF Workshop, New Orleans
- 2017 SIAM Conference on Dynamical Systems, Utah

PROFESSIONAL EXPERIENCE

Teaching

- 2022 Guest lecturer for *Formal Theory* (doctoral course, Dept. Politics, Uni. Oxford)
- 2018 Teaching Assistant for *Game Theory* (undergraduate, Dept. Economics, UNSW)
- 2014 Teaching Assistant for *Intermediate Microeconomics* (undergraduate, Dept. Economics, UNSW)
- 2013 Student Support Teacher for the School of Mathematics and Statistics (undergraduate, Dept. Mathematics, UNSW)

Research Assistant/Internships

- 2015-2018 Research Assistant for Prof. Richard Holden
- 2013-2014 Intern at the Reserve Bank of Australia (RBA)

DOCTORAL SUPERVISION AND POSTDOCS

Doctoral Students

- Sep. 2022-*present* Pedro Pablo Pérez Velasco (primary advisor)

Postdoctoral Fellows

- Oct. 2022-*present* Benjamin Blumenthal

PROFESSIONAL SERVICE

Journal Referee

American Economic Journal: Microeconomics (AEJ: Micro); American Journal of Political Science (AJPS); Journal of Politics (JoP); Games and Economic Behavior (GEB); Journal of Theoretical Politics (JTP); Social Choice & Welfare (SCW ×2); Mathematics of Operations Research (MOR); Transactions on Economics and Computation (TEAC); Journal of Artificial Intelligence Research (JAIR); Journal of the International Foundation for Autonomous Agents and Multi-Agent Systems (JAAMAS); Business & Politics (B&P)

Conference Referee

Society for Institutional & Organizational Economics (SIOE'22); ACM Conference on Economics and Computation (EC'18,19); Conference on Web and Internet Economics (WINE'19); Conference on Artificial Intelligence (AAAI'18); Symposium on Theory of Computing (STOC'20); ACM Conference on Artificial Intelligence, Ethics, and Society (AIES'18,19); Conference on Algorithmic Decision Theory (ADT'21); International Conference on Distributed Artificial Intelligence (DAI'19); International Symposium on Mathematical Foundations of Computer Science (MFCS'19)

Book Referee

Morgan & Claypool Publishers

Conference Organization

Workshop on Democracy (ETH Zürich, 2023): Program Committee member

Society for Institutional & Organizational Economics (SIOE, 2022): Program Committee member

Other Services

Member of Magdalen College Governing Body (2021-2022)