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B.S., Mathematics and Economics, with honors in mathematics, May 1998. University of Maryland, College Park.

M.A., Economics, June 2001, University of Rochester.

Ph.D., Economics, June 2003, University of Rochester. Supervisor: William Thomson.

Professional Experience

Professor of Economics, Georgetown University, August 2017–present.

Professor of Economics, University of California San Diego, July 2016–June 2017.

Associate Professor of Economics, University of California San Diego, July 2010–June 2016.

Associate Professor of Economics, California Institute of Technology, July 2006–June 2010.

Assistant Professor of Economics, California Institute of Technology, July 2003–June 2006.

Grants

NSF award SES-0751980, Revealed Preference Tests in Individual and Collective Choice, 2008–2010. Co-Principal Investigator with Federico Echenique.

NSF award SES-1426867, Dynamic Elicitation of Unobservable Information, 2014–2016. Principal Investigator.

Journal Publications

1. Group order preservation and the proportional rule for the adjudication of conflicting claims, with William Thomson, *Mathematical Social Sciences* 44 (2002), 235–252.
2. Consistency in the probabilistic assignment model, *Journal of Mathematical Economics* 40 (2004), 953–962.
3. Virtual repeated implementation, *Economics Letters* 83 (2004), 263–268.
4. Allocation rules for land division, *Journal of Economic Theory* 121 (2005), 236–258.

5. Multi-utilitarianism in two-agent quasilinear social choice, *International Journal of Game Theory* 33 (2005), 315–334.
6. Preference aggregation under uncertainty: Savage vs. Pareto, with Takashi Hayashi, *Games and Economic Behavior* 54 (2006), 430–440.
7. Asymmetric rules for claims problems without homogeneity, *Games and Economic Behavior* 54 (2006), 241–260.
8. Profit sharing (with workers) facilitates collusion (among firms), with Dan Bernhardt, *RAND Journal of Economics* 37 (2006), 483–502.
9. Citizen-candidates, lobbies, and strategic campaigning, *Economic Theory* 33 (2007), 285–309.
10. An ordinal characterization of the linear opinion pool, *Economic Theory* 33 (2007), 457–474.
11. Ordinal aggregation and quantiles, *Journal of Economic Theory* 137 (2007), 416–431.
12. Consistent representative democracy, *Games and Economic Behavior* 62 (2008), 348–363.
13. Proper scoring rules for general decision models, *Games and Economic Behavior* 63 (2008), 32–40.
14. Ordinal notions of submodularity, with Federico Echenique, *Journal of Mathematical Economics* 44 (2008), 1243–1245.
15. An axiomatic theory of political representation, *Journal of Economic Theory* 144 (2009), 375–389.
16. Intergenerational equity: Sup, inf, lim sup, and lim inf, *Social Choice and Welfare* 32 (2009), 243–252.
17. An axiomatization of quantiles on the domain of distribution functions, *Mathematical Finance* 19 (2009), 335–342.
18. Supermodularity and preferences, with Federico Echenique, *Journal of Economic Theory* 144 (2009), 1004–1014.
19. Profit maximization and supermodular technology, with Federico Echenique, *Economic Theory* 40 (2009), 173–183.
20. Bayesian consistent belief selection, with Takashi Hayashi, *Journal of Economic Theory* 145 (2010), 432–439.
21. A measure of bizarreness, with Alan D. Miller, *Quarterly Journal of Political Science* 5 (2010), 27–44.
22. Rules for aggregating information, with Alan D. Miller, *Social Choice and Welfare* 36 (2011), 75–82.
23. On behavioral complementarity and its implications, with Federico Echenique and Eran Shmaya, *Journal of Economic Theory* 145 (2010), 2332–2355.

24. Testable implications of gross substitutes in demand for two goods, with Federico Echenique and Eran Shmaya, *American Economic Journal: Microeconomics* 3 (2011), 129-136.
25. Inequality aversion and risk aversion, *Journal of Economic Theory* 147 (2012), 1642-1651.
26. Updating toward the signal, with PJ Healy, *Economic Theory* 50 (2012), 765-686.
27. Reversals of signal-posterior monotonicity for any bounded prior, with PJ Healy, *Mathematical Social Sciences* 61 (2011), 178-180.
28. Money metric utilitarianism, with Takashi Hayashi, *Social Choice and Welfare* 39 (2012), 809-831.
29. Choice and individual welfare, with Takashi Hayashi, *Journal of Economic Theory* 147 (2012), 1818-1849.
30. When does aggregation reduce risk aversion?, with Federico Echenique, *Games and Economic Behavior* 76 (2012), 582-595.
31. On the consistency of data with bargaining theories, with Federico Echenique, *Theoretical Economics* 9 (2014), 137-162.
32. Inefficiency measurement, with Alan D. Miller, *American Economic Journal: Microeconomics* 6 (2014), 79-92.
33. Measuring legislative boundaries, with Alan D. Miller, *Mathematical Social Sciences* 66 (2013), 268-275.
34. The axiomatic structure of empirical content, with Federico Echenique and Eran Shmaya, *American Economic Review* 104 (2014), 2303-2319.
35. Preference aggregation with incomplete information, with Takashi Hayashi, *Econometrica* 82 (2014), 589-599.
36. Scholarly influence, with Alan D. Miller, *Journal of Economic Theory* 151 (2014), 571-583.
37. The core matchings of markets with transfers, with Federico Echenique, *American Economic Journal: Microeconomics* 7 (2015), 144-164.
38. Spatial implementation, with Richard L. Brady, *Games and Economic Behavior* 94 (2015), 200-205.
39. Taxation and poverty, with Juan D. Moreno-Ternero, *Social Choice and Welfare* 48 (2017), 153-175.
40. A spatial analogue of May's Theorem, with Richard L. Brady, *Social Choice and Welfare* 47 (2016), 127-139.
41. A test for risk-averse expected utility, with Ce Liu and Seung-Keun Martinez, *Journal of Economic Theory* 163 (2016), 775-785.

42. Testing theories of financial decision making, with Federico Echenique and Kota Saito, *Proceedings of the National Academy of Sciences* 113 (2016), 4003-4008.
43. Gains from trade, with Takashi Hayashi, *International Economic Review* 58 (2017), 923-942.
44. General revealed preference theory, with Federico Echenique and Eran Shmaya, *Theoretical Economics* 12 (2017), 493-511.
45. Resource allocation with partial responsibilities for initial endowments, with Takashi Hayashi, *International Journal of Economic Theory* forthcoming.
46. Choice and matching, with M. Bumin Yenmez, *American Economic Journal: Microeconomics* 9 (2017), 126-147.
47. Reverse Bayesianism: A comment, with Takashi Hayashi, *American Economic Journal: Microeconomics* 10 (2018), 315-324.
48. A characterization of combinatorial demand, with Federico Echenique, *Mathematics of Operations Research* forthcoming.
49. Incentives in experiments: A theoretical analysis, with Yaron Azrieli and PJ Healy, *Journal of Political Economy* forthcoming.
50. Note on symmetric utility, with John Rehbeck, *Economics Letters* 162 (2018), 27-29.
51. Flaws in the efficiency gap, with Alan D. Miller and Joel Sobel, *Journal of Law & Politics* 33 (2017), 1-33.
52. Benchmarking, with Alan D. Miller, *Theoretical Economics* forthcoming.
53. On multiple discount rates, with Federico Echenique, *Econometrica* forthcoming.

Refereed Conference Proceedings (Computer Science)

1. Dynamically eliciting unobservable information, extended abstract, with Nicolas S. Lambert, *Proceedings of the 15th ACM Conference on Electronic Commerce*, 2014, 987-988.

Invited Publications (non-refereed)

1. Introduction to dynamic belief elicitation, with Nicolas S. Lambert, *ACM SIGecom Exchanges* 14 (2015), 80-83.

Manuscripts

1. Additive rules for the quasi-linear bargaining problem, with Jerry R. Green.
2. What's on the menu? Deciding what is available to the group, with David S. Ahn.
3. Incentives in experiments with objective lotteries, with Yaron Azrieli and PJ Healy (under review).
4. Dynamic elicitation of unobservable information, with Nicolas Lambert (under review).
5. Closure and preferences, with Alan D. Miller and M. Bumin Yenmez.
6. Dual scoring, with PJ Healy and Nicolas Lambert.
7. Can everyone benefit from economic integration?, with Takashi Hayashi.
8. Preference identification, with Federico Echenique and Nicolas Lambert.
9. Nonseparable costly attention and revealed preference, with Ce (Will) Liu and John Rehbeck (under review).
10. A simple characterization of responsive choice, with M. Bumin Yenmez (under review).
11. Can everyone benefit from innovation?, with Takashi Hayashi (under review).
12. The Pareto comparisons of a group of exponential discounters, with Federico Echenique (under review).
13. The structure of household preference, with Takashi Hayashi (under review).

Book

Revealed preference theory, with Federico Echenique, Cambridge University Press Econometric Society Monographs, 2016.

Professional Service

Program committee: Eighth International Meeting for the Society of Social Choice and Welfare, 2006, Istanbul Bilgi University.

Program committee: 2009 NSF/NBER/CEME Conference on General Equilibrium and Mathematical Economics

Program committee: International Meeting for the Society of Social Choice and Welfare, 2018, Seoul National University.

Associate editor, *Mathematical Social Sciences*, 2009–2013

Co-editor, *Mathematical Social Sciences*, 2014–present

Associate editor, *B.E. Press Journals in Economic Theory*, 2009–2013

Associate editor, *Social Choice and Welfare*, 2011–present

Associate editor, *Journal of Mathematical Economics*, 2013–present

Associate editor, *Journal of Economic Theory*, 2014–present

Council for Society of Social Choice and Welfare, 2012–2017

NSF Panel member, 2011