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Education:

Ph.D., Economics, University of California-Davis, June 2008.

Ph.D., Mathematics, University of California-Davis, Sept 1994.

B.S., Mechanical Engineering, University of Wisconsin Madison 1988.

Academic Appointments:

Associate Professor University of Kentucky
2015-present Departments of Economics and Mathematics.

Assistant Professor University of Kentucky
2008-2015 Departments of Economics and Mathematics.

Lecturer University of California-Davis
1994-2008 Departments of Mathematics, Agriculture and Resource
Economics, and the Graduate School of Management.

Publications:

1. Equity- Efficiency Tradeoffs in International Bargaining, with Josh Ederington, *Economic Inquiry*, 2024.
2. Existence and Statistical Estimation of Equilibria in Stochastic Electoral Competitions, *Journal of Convex Analysis*, 2023.
3. Invariant Equilibria and Classes of Equivalent Games, with Blake Allison, and Jason Lepore, *Games and Economic Behavior*, 2022, DOI: 10.1016/j.geb.2022.01.011
4. Modelling Cournot Games as Multi-agent Multi-armed Bandits, with K. Taywade, B. Harrison, and J. Goldsmith, *Proceedings of the Florida Artificial Intelligence Research Society*, 2022, DOI:10.32473/flairs.v35i.130697
5. Optimizing Sustainability Performance through Component Commonality for Multi-Generational Products, with B.M. Hapuwatte, F. Badurdeena, and I.S. Jawahir, *Journal of Resources, Conservation, and Recycling*, 2021.
6. Preserving Bidder Privacy in Assignment Auctions: Design and Measurement, with De Liu, *Management Science*, 2020.
7. On the Economic Value of Signals, with Yoko Kusunose, *The Berkeley Journal of Theoretical Economics*, 2019.
8. Sufficient condition for weak Reciprocal upper semi-continuity in mixed extensions of games, with J. Lepore and B. Allison, *Journal of Mathematical Economics*, 2018.
9. Existence of Equilibria in Constrained Discontinuous Games, *International Journal of Game Theory*, 2016.
10. Better Reply Security and Existence of Equilibria in Differential Games, *Journal of Dynamic Games and Applications*, 2013
11. How to Price Discriminate when Tariff Size Matter? with Hemant Bhargava, *Marketing Science*, 2013.

12. Lower Hemi-Continuity, Open Sections, and Convexity: Counter-Examples for Correspondences in Infinite Dimensional Spaces, *Theoretical Economics Letters*, 2012.
13. Existence of Pure Strategy Equilibrium for Bertrand Games with Arbitrary Tie-Breaking Rules, *Economics Letters*, 2010.
14. Variational Convergence of Games, Existence and Approximation of Equilibria in Discontinuous Games, *Journal of Economic Theory*, 2010.
15. Reciprocal Upper Semi-Continuity and Better Reply Secure Games: A Comment, with Alejandro Jofre, *Econometrica*, 2006.
16. Tariff Structure for Pricing Grid Computing Resources, with Hemant Bhargava, *Proceedings of the Third International Conference on Grid Economics and Business Models*, Hing-Yan Lee and Steven Miller (eds), 2006.
17. An Epi-convergence result for convex bivariate functions, *Journal of Convex Analysis*, 2004.
18. An Ergodic Theorem for Random Lagrangians with an Application to Stochastic Programming, with Michael Casey, *International Journal of Pure and Applied Analysis*, 2004.
19. On the convergence of Min/Sup problems in some optimal control problems, *Journal of Abstract and Applied Analysis*, 2001.
20. Epi/hypo convergence: The Slice topology and saddle point approximations, *Journal of Applied Analysis*, 1996.
21. Equilibrium in abstract economies without the lower semi-continuity of the constraint maps, *Journal of Mathematical Economics*, 1998
22. Convergence of Set-Valued mappings: Equi-outer semi-continuity, with R. J.-B. Wets, *Journal of Set-Valued Analysis*, 1996

Papers under review:

1. Using Non-stationary bandits for learning in repeated Cournot games with non-stationary demand, with K Taywade, B Harrison, and J. Goldsmith, under review.

Professional Service:

- Associate Editor: *International Journal of Economic Theory*, 2021-present.
- Referee: *Econometrica*, *Management Science*, *Marketing Science*, *Journal of Economic Theory*, *Journal of Games and Economic Behavior*, *Economic Theory*, *International Economic Review*, *SIAM Journal of Optimization*, *Journal of Optimization Theory and Applications*, *Decision Science*, *Journal of Mathematical Economics*, *Mathematical Social Sciences*, *Journal of Information Systems Research*.
- Co-organizer, Midwest Economic Theory Spring Meeting, University of Kentucky, 2017.
- Session organizer, special session on Mathematical Economics, American Mathematical Society sectional meeting, University of Kentucky, 2010.

Departmental and College Service:

- Director of the Mathematical Economics program, 2017-present.
- Diversity Committee, member, Gatton College of Business and Economics, 2018-present.
- Diversity Committee, member, Mathematics Department, 2021-present.
- Academic Senate, member, 2017-2019.
- Micro Theory and IO prelim committees, 2008-present.
- Hiring Committees, Departments of Mathematics and Economics, 2012, 2014 and 2016.
- Gatton Strategic Planning Task Force, 2014.

Student Advising:

- Dissertation Committee Co-Chair: Ben Wallace (Economics, Ph. D 2019).
- Dissertation Committee Chair: Yanxi Li (Mathematics, MA 2018).
- Undergraduate Dissertation Adviser: Kathryn Schantz (Mathematics, BA 2019).
- Dissertation Committee member for: Abdullah Al-Bahrani (Economics, Ph. D. 2010), Stephen Locke (Economics, Ph. D 2013), Grant Cavanaugh (Agriculture Economics, Ph. D. 2013, Xin Hong (Finance, Ph.D 2014), Soohyung Kim (Finance, Ph. D. 2015), Philip Chung (Accounting, Ph. D. 2015), Nicholas Benthem (Mathematics, M.S. 2015), Zhiguo Yang (Marketing, Ph. D. 2015), Zhaohong Wang (Electrical Engineering, Ph. D 2016), Kristen Barnard (Mathematics, Ph. D, 2017), Jessica Short-Long (Physics Ph. D. 2018), Mahdi Asgari (Ag. Econ, Ph. D, 2018), Leo Li (Finance, Ph. D), Joseph Farizo (Finance, Ph. D, 2020), Jacob Schlueter (Computer Science, Ph. D 2021), Buddhika Hapuwatte (Mechanical Engineering, Ph. D, 2021), Kshitija Taywade, (CS, Ph. D, expected 2023).

Awards:

Outstanding Teaching Award, Department of Economics, University of Kentucky, 2010.