

**Curriculum Vitae  
Vicki Knoblauch  
August 1, 2021**

Professor of Economics  
Department of Economics  
University of Connecticut  
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**Research**

*Interests:* Microeconomic Theory, Mathematical Economics, Game Theory, Mechanism Design

**Published and Forthcoming Papers**

“Von Neumann-Morgenstern stable set rationalization of choice functions,” *Theory and Decision* (2020) 89: 369-381.

“Continuous Utility Representation of Fuzzy Preferences” (2020) in G. Bosi, M. J. Campión, J. C. Candeal and E. Indurain *Mathematical Topics on Representations of Ordered Structures and Utility Theory: Essays in Honor of Professor Ghanshyam B. Mehta* Springer Nature Switzerland AG, 301-309.

“A Marriage Matching Menagerie,” (with J. Boudreau) *Operation Research Letters* (2017) 45: 68-71.

“Elections Generate all Binary Relations on Infinite Sets,” *Mathematical Social Sciences* (2016) 84: 105-108.

“Topologies Generated by Nested Collections,” (with M.J. Campion and E. Indurain). *Bulletin of the Malaysian Mathematical Sciences Society* (2016) 395: 545-561.

“Two Preference Metrics Provide Settings for the study of Properties of Binary Relations,” *Theory and Decision* (2015) 79: 615-625

Probabilistic Evaluations: A Universal Representation for Preferences over Countable Sets,” *Journal of Mathematical Economics* (2015) 57: 25-27.

“Preference, Topology and Measure,” *Social Choice and Welfare* (2014) 43: 507-514.

“What Price Stability? Social Welfare in Matching Markets,” (with J. Boudreau). *Mathematical Social Sciences* (2014) 67: 27-33.

“Topological Interpretations of Fuzzy Subsets. A Unified Approach for Fuzzy Thresholding Algorithms,” (with E. Barrenechea, H. Bustine, M.J. Campion and E. Indurain). *Knowledge-Based Systems* (2013) 54: 163-171.

“A Simple Voting Scheme Generates all Binary Relations on Finite Sets,” *Journal of Mathematical Economics* (2013) 49(2): 230-233.

“Preferences and the Price of Stability in Matching Markets,” (with James Boudreau),

- Theory and Decision* (2013) 74(2): 565-589.
- “On Topological Spaces Whose Topology is Induced by a Binary Relation,” (with Esteban Indurain) *Quaestiones Mathematicae* (2013) 36(1): 47-65.
- “Dividing Profits Three Ways: Impartiality vs. Consensuality,” (with James Boudreau) *Mathematical Social Sciences* (2011) 62: 79-86.
- “Marriage Matching and Intercorrelation of Preferences,” (with James Boudreau), *Journal of Public Economic Theory* (2010) 12: 587-602.
- “How to Recognize a Single-Issue Spatial Election,” *Journal of Mathematical Economics* (2010) 46: 1-5.
- “Three-agent peer Evaluation,” *Economics Letters* (2009) 105: 312-314.
- “Marriage Matching and Gender Satisfaction,” *Social Choice and Welfare* (2009) 32: 15-27.
- “Binary Relations: Finite Characterizations and Computational Complexity,” *Theory and Decision* (2008) 65: 27-44.
- “Spatial Voting with Endogenous Timing,” (with S. Huck and W. Mueller) *Journal of Institutional and Theoretical Economics* (2006) 162: 557-570.
- “Continuously Representable Paretian Quasi-Orders,” *Theory and Decision* (2006) 60: 1-16.
- “Characterizing Paretian Preferences,” *Social Choice and Welfare* (2005) 25: 179-186.
- “Continuous Lexicographic Preferences,” *Journal of Mathematical Economics* (2005) 41: 812-825.
- “On the Profitability of Collusion in Location Games,” (with S. Huck and W. Mueller) *Journal of Urban Economics* (2003) 54: 499-510.
- “An Easy Proof that a Square Lattice is an Equilibrium for Spatial Competition in the Plane,” *Journal of Urban Economics* (2002) 51: 46-53.
- “Using Elections to Represent Preferences,” *Social Choice and Welfare* (2001) 18: 823-831.
- “Lexicographic Orders and Preference Representation,” *Journal of Mathematical Economics* (2000) 34: 255-267.
- “Order Isomorphisms for Preferences with Intransitive Indifference,” *Journal of Mathematical Economics* (1998) 30: 421-431.
- “A Pure Strategy Nash Equilibrium for a Three-Firm Location Game on a Two Dimensional Set,” *Location Science* (1997) 4: 247-250.
- “Continuous Strategy Games as Location Games,” *Journal of Economic Theory* (1995) 66: 165-177.

- “Geometric Versions of Finite Games: Prisoner’s Dilemma, Entry Deterrence and a Cyclical Majority Paradox,” *International Journal of Game Theory* (1995) 24: 65-77.
- “Computable Strategies for Repeated Prisoner’s Dilemma,” *Games and Economic Behavior* (1994) 7: 381-389.
- “Recovering Homothetic Preferences,” *Economics Letters* (1993) 82: 41-45.
- “A Tight Upper Bound on the Money Metric Utility Function,” *American Economic Review* (1992) 82: 660-663.
- “Generalizing Location Games to a Graph,” *Journal of Industrial Economics* (1991) 39: 683-688.

### ***Working Papers:***

- “The lexicographic complexity of asymmetric binary relations” (2021).
- “How rational is preference-rationalized choice?” (2018).
- “Spatial Competition on a Torus” (2017).
- “Marriage Matching with Correlated Preferences” (with Onur B. Celik), (2006).
- “Can a Newly Proposed Mechanism for Allocating Contracts in U.S. Electricity Wholesale Markets Lead to Lower Prices?” (2004).

### **Career and Education:**

- Fall 2001-- present Professor of Economics, Department of Economics, University of Connecticut
- Spring 2001 Visiting Professor of Economics, Department of Economics University of Wisconsin-Milwaukee
- Fall 2000 Visiting Professor of Economics, Krannert Graduate School of Management, Purdue University
- 1999-2001 Professor of Economics, Royal Holloway, University of London
- 1997-1999 Senior Lecturer, Department of Economics, Royal Holloway, University of London
- 1995-1997 Assistant Professor, Department of Economics, Vassar College
- 1991-1995 Assistant Professor, Department of Economics, Finance and Legal Studies, College of Commerce and Business Administration, University of Alabama
- 1991 PhD, Economics, University of Wisconsin-Milwaukee
- Spring 1991 Visiting Lecturer, Department of Economics, University of Wisconsin-Madison

- 1990-1991    Dissertation Fellow, University of Wisconsin-Milwaukee
- 1989-1990    Instructor, Department of Economics, University of Wisconsin-Milwaukee
- 1986-1988    Instructor, School of Business Administration, Chapman College, San Diego
- 1984            Adjunct Professor, Department of Mathematics and Department of Economics, Blackburn College, Carlinville, IL
- 1981            B.A. Economics, University of Wisconsin-Madison

### **Professional Activities:**

**Associate Editor:** *Economics Bulletin*

**Regular Reviewer:** *Mathematical Reviews*

**Ad Hoc Referee:** *American Economic Review, Discrete Applied Mathematics, Economics Bulletin, Econometrica, European Journal of Operations Research, GAMES, Games and Economic Behavior, Indagationes Mathematicae, International Economic Review, International Journal of Industrial Organization, International Game Theory Review, International Journal of Global Environmental Issues, European Journal of Operations Research, Journal of Behavioral and Experimental Economics, Journal of Economic Behavior and Organization, Journal of Industrial Economics, Journal of Population Economics, Journal of Mathematical Economics, Journal of Public Economics, Journal of Public Economic Theory, Journal of Urban Economics, Logique Et Analyse, Mathematical Social Sciences, National Science Foundation, Policy Studies, Royal Society, Social Choice and Welfare, Southern Economic Journal, Theory and Decision, Transactions on Economics and Computation, Rationality and Society, Review of Economic Studies*

### **Honors Students:**

**Erik Anderson, Senior Thesis** Spring 2015.

**Patrick Adams, Holster Scholarship Prize Winner:** Matching Mechanisms and Social Welfare Functions. Fall 2013-Fall 2014

**Aubree Deblois, Senior Thesis** Spring 2014.

### **PhD Students:**

**James Boudreau** Thesis title: “Essays on the Analysis and Implications of Two-Sided Matching Markets.” Graduated 2009. Associate Professor of Economics, Kennesaw State University. Past positions: Associate Professor of Economics, University of Texas-Pan American.

**Nicholas Shunda** Thesis title: “Three Essays on Auction Markets.” Graduated 2009. Associate Professor of Economics, University of Redlands.

**Rimvydas Baltaduonis** Thesis title, “Essays on Wholesale Auctions in Deregulated Electricity Markets.” Graduated 2008. Associate Professor, Gettysburg College. Co-director of Gettysburg Lab for Experimental Economics. Past positions: Visiting Scholar at the Federal Regulatory Commission (2015-2017). Postdoctoral research associate, Economic Science Institute at Chapman University and IFREE visiting post-doctoral fellow, Interdisciplinary Center for Economics Science; The Center of Experimental Education, George Mason University.

**Onur B. Celik** dissertation topic: Marriage Matching and Correlated Preferences. Graduated 2009.

**Teaching Interests:** Mathematical Economics, Game Theory, Industrial Economics, Mechanism Design and Microeconomic Theory.

### **Courses Taught:**

*Undergraduate Courses:*

**Current:** Honors Core Course: Game Theory with Applications to the Natural and Social Sciences (1000-level general education course), Game Theory (3000 level course), Industrial Organization, Mechanism Design.

**Past:** Game Theory and Market Design: A Case Study of the Deregulated Electricity Market and Beyond, Industrial Organization, Government and Business, Internal Organization of the Firm, Statistics, Mathematics for Economics and Business.

*Graduate Courses:*

**Past:** PhD level Microeconomic Theory (I and II), MA level Industrial Economics, PhD level Game theory, PhD level Industrial Economics, PhD level Mathematical Economics. Statistics (M.B.A.).

### **Grants:**

“Game Theory with Applications to the Natural and Social Sciences” course proposal selected by the Honors Core Curriculum Committee. June 2010. \$10,000. Grant supports financial equivalent of ½ TA+fringe each time the course is taught.

Senior Personnel, NSF Grant No. ECS-0323685 “Robustness, Efficiency and Security of Electric Power Grids in a Market Environment” (with P. Luh (PI) and D. Pepyne) 9/2003-8/2007. \$1, 410, 000.

“Game Theory with Applications to the Social and Natural Sciences and Technology”: course proposal selected by the Provost’s General Education Course Development Evaluation Committee. April 2004. \$8,000.

Dissertation Fellowship. September 1990-May 1991 Funded final year in PhD program.