

# Christopher S. Ruebeck

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## Education

Ph.D., Economics, The Johns Hopkins University, 2000

Areas: Industrial Organization, Evolutionary Game Theory, Applied Econometrics  
Dissertation: "Changing Markets and Changing Behavior: Three Essays"

M.A., Economics, The Johns Hopkins University, 1995

M.S.E., Electrical Engineering, Stanford University, 1988

B.S.E.E. (Electrical Engineering) *With Distinction*, Purdue University, 1986

## Academic appointments

Lafayette College

2008 - Associate Professor  
2001 - 08 Assistant Professor  
2000 - 01 Instructor, tenure track

Loyola College, Maryland

1998 - 2000 (Visiting) Assistant Professor Core Faculty

The Johns Hopkins University

1997 - 98 Instructor  
1995 - 98 Research Assistant  
1994 - 98 Teaching Assistant

## Non-academic employment

Siemens Medical Systems, Inc.

1991-3 Field Product Specialist, Computed Tomography (CT) / Magnetic Resonance (MR)  
1990-1 Product Manager, Magnetic Resonance  
1988-9 Headquarters Product Specialist, Magnetic Resonance:

Lawrence Livermore National Laboratory

1987 Electrical Engineer (TS and Q clearances)

National Security Agency, Cooperative Education Program

1983-6 Engineering Student (TS clearance)

**Grants, fellowships, and other funding**

- 2007-13 National Science Foundation, Human and Social Dynamics: Integrating Agent-Based Modeling and Life-Cycle Analyses to Enhance Environmental Policy Making, Research Grant BCS-079458, \$635,000. Principal Investigator; co-PIs Sharon Jones (University of Portland) and Jeff Pfaffmann (Computer Science)
- 2007-13 National Science Foundation, CPATH-T: Campus Wide Computation Initiative, A New Model For Computing Education, Research Grant 0722211/0722203, \$105,716 and \$559,950. One of several senior personnel across the Lafayette College campus; Principal Investigators Chun Wai Liew (Computer Science) and PI Valerie Barr (Union College)
- 2011 Support from Lafayette's Environmental Science & Studies program for a Marketing Research (Econ 361) project with the West Ward Neighborhood Partnership
- 2011 Grant from the Lafayette Libraries to add an information literacy component to Marketing Research (Econ 361) course
- 2010 Support from community-based learning and research Faculty Innovation Grant and Princeton Corporation for National and Community Service: fund summer research work by Rachel Ingber in a study of the Nurse Family Partnership's Holiday Helpers program with Lafayette College
- 2010 Interdisciplinary course through Andrew W. Mellon Foundation grant funds: Evolutionary Game Theory, with Robert Root from the Department of Mathematics
- 2009 Lehigh Valley Research Consortium inter-institutional grant to survey the local food supply chain for the Lehigh Valley chapter of Buy Fresh Buy Local
- 2002 Summer Research Fellowship, Lafayette College
- 2001 Integrating Computers in the Curriculum Grant, Lafayette College
- 1985 AT&T Fellowship for an outstanding member of Eta Kappa Nu, the electrical engineering honor society, Beta Chapter (Purdue University)

**Teaching Awards**

- 2003-4 Lafayette College Student Government Teaching Award, Humanities and Social Sciences
- 2003-4 Award for Outstanding Contributions to the Economics and Business Department from Omicron Delta Epsilon economics honor society, Alpha Delta Chapter (Lafayette College)

**Published work: scholarly**

- “Introduction to the Special Issue on Agent-Based Computational Economics” (2021), *Computational Economics*, June 2021, 58; with Troy Tassier
- “Learning Some Economics from Alexander Hamilton: From Adam Smith to Broadway” (2021), in *Dueling Grounds: Revolution and Revelation in the Musical Hamilton*, Oxford University Press, edited by Mary Jo Lodge, Paul Laird; with Mary Jo Lodge
- “Externalities, Spillover Effects, and Implications for Payment-for-Performance Programs” (2021), 335-339 in *Advances in Social Simulation, ESSA 2019*, Springer Proceedings in Complexity, edited by P. Ahrweiler and M. Neumann, Springer, Cham.; with Hongxing Liu
- “Knowledge Spillover and Positive Environmental Externality in Agricultural Decision Making under Performance-Based Payment Programs” (2020) *Agricultural and Resource Economics Review* (best paper award 2020), 49(2) 270-290; with Hongxing Liu
- “Introduction to the Symposium on Agent-based Modeling” (2017) *Eastern Economic Journal* 43(2); with Leanne Ussher and Jason Barr
- “Multicampus Partnerships Studying the Feasibility of Buying Local” (2016) , in *Community-Based Research: Teaching for Community Impact*, Beckman, M., & Long, J. (Eds.), Sterling VA: Stylus.
- “Consumer Search, Rationing Rules, and the Consequences for Competition” in *Social Computing, Behavioral Modeling, and Prediction*, April 2011, Lecture Notes in Computer Science, 6589: edited by J. Salerno, S.J. Yang, S.-K. Chai
- “Open- and Closed-Loop Supply Chain Dynamics: Specification and Exploration of an Agent-Based Model” *Eastern Economic Journal* January 2011 (special issue on Agent-based Computational Economics); with Jeffrey Pfaffmann
- “Assessing the Effectiveness of Using a Computer Game to Bridge a Research Agenda with a Teaching Agenda” *American Society of Engineering Education 2010 Conference Proceedings*; with Kristen Sanford Bernhardt, Sharon Jones, Jackie Isaacs (Best Paper Award, ASEE Environmental Division)
- “Acting White or Acting Black: Mixed-Race Adolescents’ Identity and Behavior,” *The B.E. Journal of Economic Analysis and Policy* (Contributions level), 2009 (9/1); with Susan Averett and Howard Bodenhorn
- The International Encyclopedia of the Social Sciences*, 2<sup>nd</sup> ed. William A. Darity et al, eds., 2008 (peer-reviewed) entries: Imperfect Competition, Asymmetric Information, Revenue, Corporate Strategies, and Instrumental Variables
- “Colourism and African-American Wealth: Evidence from the Nineteenth Century South,” *Journal of Population Economics*, July 2007 (20/3) 599-620; with Howard Bodenhorn
- “Handedness and Earnings,” *Laterality*, March 2007 (12/2)101-120; with Joseph E. Harrington, Jr. and Robert Moffitt

**Published work: scholarly (continued)**

“Model Exit in a Vertically Differentiated Market: Interfirm Competition vs. Intrafirm Cannibalization in the Computer Hard Disk Drive Industry,” *Review of Industrial Organization*, Feb 2005 (26/1)27-59

“Network Externalities and Standardization: A Classroom Demonstration,” *The Southern Economic Journal*, April 2003 (69/4) 1000-08; w/ Sarah Stafford, Nicola Tynan, et al.

“Interfirm Competition, Intrafirm Cannibalization, and Product Exit in the Market for Computer Hard Disk Drives,” *The Economic and Social Review*, Spring 2002 (33/1) 119-31

“Imitation Dynamics and the Repeated Prisoners’ Dilemma: An Exploratory Example,” *The Journal of Economic Behavior and Organization*, August 1999 (40/1) 81-104

**Published work: reports, sponsored or solicited**

“A Shared Research Enterprise: Surveying Bacon and Garlic Festival Attendees in Support of Easton’s Community Engagement and Marketing Initiative” (with Christine Carpino, Dawn Hart, Lauren Lang, Caroline Ponsi, and David Shulman) in the State of the Lehigh Valley 2017 report, released November 2017 by the Lehigh Valley Research Consortium at event with over 100 attendees

“Report on Survey Data from 2016 Bacon and Garlic Fest Attendees” (with David Shulman) for the City of Easton’s Office of Economic Development, August 2017

“Employment in the Expanded STEM Economy” (with Sabrina Terrizzi) in the State of the Lehigh Valley 2014 report, released March 2015 by the Lehigh Valley Research Consortium at event attended by over 200 community members

State of the Lehigh Valley 2013 report, Economics section (with Sabrina Terrizzi), released March 2014 by the Lehigh Valley Research Consortium at event attended by over 250 community members

State of the Lehigh Valley 2012 report released February 2013: co-editor of the report (with Jamila Bookwala) and its Economics section co-author (with Sabrina Terrizzi), as well as co-presenter (with Jamila Bookwala) at event attended by 250 community members

State of the Lehigh Valley 2012 report, Economics section, released February 2013 for Lehigh Valley Research Consortium at event attended by 250 community members

“Gardening in Easton’s West Ward Neighborhood: Local Perceptions of the Value and Operation of Community Gardens” September 2012, with Crystal Fortwangler, Hannah Grover, and Alana Taylor, for the West Ward Neighborhood Partnership

State of the Lehigh Valley 2011 Economics section (with Rob Root), released February 2012 for the Lehigh Valley Research Consortium at event attended by 150 community members

State of the Lehigh Valley 2010 Economics section, released January 2011 for the Lehigh Valley Research Consortium

“Local Food and Local Taste: A study of supply and demand” for the Greater Lehigh Valley Buy Fresh Buy Local Chapter with Richard Niesenbaum and in partnership with the Lehigh Valley Research Consortium; September 2009

### **Contributions to working paper series**

- “Acting White or Acting Black: Mixed Race Adolescents’ Identity and Behavior,” NBER Working Paper 13793 (February 2008), with Susan Averett and Howard Bodenhorn
- “Handedness and Earnings,” NBER Working Paper 12387 (July 2006) and Johns Hopkins University working paper 533 (2007), with Joseph E. Harrington, Jr. and Robert Moffitt
- “Colorism and African American Wealth: Evidence from Nineteenth-Century South,” NBER Working Paper 11732 (November 2005), with Howard Bodenhorn
- “The Economics of Identity and the Endogeneity of Race,” NBER Working Paper 9962 (September 2003), with Howard Bodenhorn

### **Research papers, Works in progress**

- “Inequality and the Central Bank” (with Amy Guisinger and Julie Smith)
- “Endogenous quality choice and environmental impact in a model of continual technological change”
- “Marshall’s Axes”
- “Simulating Oligopoly to Enhance Student Learning” (with Joseph Harrington)

### **Conferences, presentations, and invited talks**

- LEEP Institute Meeting of International Excellence in Environmental and Resource Economics, Exeter (U.K.), June 2019, “Effects of Social and Behavioral Norms on Water Quality Trading Participation” (with Hongxing Liu)
- Eastern Economic Association meetings, New York, March 2019, “Inequality and the Central Bank” (with Amy Guisinger and Julie Smith)
- Western Economic Association meetings, Boston, July 2018, “Inequality and the Central Bank” (with Amy Guisinger and Julie Smith)
- Blended Learning Conference, Bryn Mawr, May 2018, “Community-Based Learning and Research Collaboration” (with Sabrina Terrizzi and Gary Kaskowitz)
- International Industrial Organization Conference, Indianapolis, April 2018, “Endogenous Quality Choice in a Market with Continual Technological Change”
- Eastern Economic Association meetings, Boston, March 2018 “Endogenous Quality Choice in a Market with Continual Technological Change”
- International Economics Society, Berlin (Germany), March 2017: “Endogenous quality choice and environmental impact, in a market with continual technological change” (also session chair and discussant)
- Western Economic Association International, Portland OR, July 2016 (also session organizer, session chair, and discussant): “Endogenous quality choice and environmental impact, in a market with continual technological change”
- LVAIC Digital Tools Conference, May 2016: “Technology for Community Based Learning Collaboration on Two Campuses” (with Gary Kaskowitz and presenter Sabrina Terrizzi)
- Bryn Mawr Blended Learning in the Liberal Arts, May 2016:  
 “Blended Remote and Local Learning in the Liberal Arts”  
 “Collaborative, Cross-Campus Hybrid Course Development and Implementation” (with Sabrina Terrizzi, John Sullivan, and Farah Vallera)
- Eastern Economic Association; Washington, D.C., February 2016 (also session organizer, session chair, and discussant): “Endogenous quality choice and environmental impact, in a market with continual technological change”

### Conference, presentations, and invited talks (continued)

- Eastern Economic Association; New York City, February 2015 (also session organizer, session chair, and discussant): “Endogenous quality choice and environmental impact, in a market with continual technological change”
- Western Economic Association International; Denver CO, July 2014 (also session organizer, session chair, and discussant): “Endogenous quality choice and environmental impact, in a market with continual technological change”
- Western Economic Association International; Seattle WA, July 2013 (also session organizer, session chair, and discussant): “Agentsets of Mixed Strategies in Duopoly” and “Competitive Behavior in a (Simulated) Loosely-Coupled Biological Cell Network Game” (with presenter Jeffrey Pfaffmann and Elaine Reynolds)
- Eastern Economic Association; New York City, May 2013 (also session organizer): “Social Networks, Identity, and Educational Effort” (with Jason Barr)
- Engineering Sustainability Conference, April 2013; Pittsburgh PA: “An Agent-Based Model for Efficient Life-Cycle Analysis of Rural Water Systems in the Developing World” (with presenter Kristen Sanford Bernhardt, Jeffrey Pfaffmann, and Sharon Jones)
- Complexity in Business Conference, November 2012; Washington D.C.: “Third-party niching in a weakly coupled pallet distribution network” (with presenter Jeffrey Pfaffmann)
- Western Economics Association International; San Francisco CA, July 2012 (also session organizer): “Social Networks, Identity, and Educational Effort” (with Jason Barr)
- Canadian Wood Pallet & Container Association Annual Meeting; Richmond VA, May 2012 (invited): “Integrating Agent-Based Modeling and Life Cycle Analyses to Enhance Environmental Policy-Making” (with Jeffrey Pfaffmann, Sharon Jones, Kristen Sanford-Bernhardt)
- International Industrial Organization Organization; Arlington VA, March 2012: “Consumer Search, Rationing Rules, and the Consequences for Competition”
- Eastern Economic Association; Boston MA, March 2012 (also session organizer): “Consumer Search, Rationing Rules, and the Consequences for Competition” and “Identity Networks and Education Effort” (with presenter Jason Barr)
- Binghamton University Economics Department seminar (invited); March 2012: “Consumer Search, Rationing Rules, and the Consequences for Competition”
- Collective Dynamics of Complex Systems Research Group seminar, Binghamton University (invited); September 2011: “Consumer Search, Rationing Rules, and the Consequences for Competition”
- Western Economic Association International; San Diego CA, July 2011 (also session organizer), “Consumer Search, Rationing Rules, and the Consequences for Competition”
- International conference on Computing in Economics and Finance; San Francisco Ca, June 2011, “Consumer Search, Rationing Rules, and the Consequences for Competition”
- International Industrial Organization Conference; Boston MA, April 2011: “Consumer Search, Rationing Rules, and the Consequences for Competition”
- Social Computing, Behavioral Modeling and Prediction; College Park MD, March 2011: “Consumer Search, Rationing Rules, and the Consequences for Competition” (referred paper published in proceedings, with competitive acceptance rate)
- Eastern Economic Association; New York City, February 2011 (also session organizer): “Consumer Search, Rationing Rules, and the Consequences for Competition”
- American Economic Association / Allied Social Sciences, Jan. 2011: “Simulating Oligopoly to Enhance Student Learning” in the Active Learning Strategies for the Undergraduate Curriculum **poster session** (with Joe Harrington)
- Southern Economic Association; Atlanta GA, November 2010: “Simulating Oligopoly to Enhance Student Learning” (with Joe Harrington)

### **Conference, presentations, and invited talks (continued)**

- Human Social Dynamics (National Science Foundation) grantees meeting; Arlington VA, Sept. 2011, “Open- and Closed-Loop Supply Chain Dynamics: Specification and Exploration of an Agent-Based Model” (with Jeff Pfaffmann)
- Northeastern Association of Business, Economics and Technology, State College PA, October 2010 “Incorporating GIS data in an Agent-Based Model of the Inter-firm Shipping Pallet Supply Chain” (with Jeff Pfaffmann, Laura Wong Hon Chan `12, Phuong Anh Nguyen `12)
- NSF-HSD grantees meeting, “Open- and Closed-Loop Supply Chain Dynamics: Specification and Exploration of an Agent-Based Model” poster (with Jeff Pfaffmann) Arlington VA, September 2010
- Society for Computational Economics 16th International Conference on Computing in Economics and Finance “The Consequences of Demand Curves and Consumer Rationing” London, July 2010
- Western Economic Association International “Virtual Corporate Reality” (with Joe Harrington) and “The Consequences of Demand Curves and Consumer Rationing” Portland OR, June 2010
- Workshop on Optimal Control, Dynamic Games and Nonlinear Dynamics “Open- and Closed-Loop Supply Chain Dynamics: Specification and Exploration of an Agent-Based Model” (with Jeff Pfaffmann) Amsterdam, June 2010
- International Industrial Organization Conference “The Consequences of Demand Curves and Consumer Rationing Rules” Vancouver, May 2010
- Golisano Institute for Sustainability seminar “Integrating Agent-Based Modeling and Life Cycle Analyses to Enhance Environmental Policy Making” (with Jeff Pfaffmann), Rochester Institute of Technology, April 2010
- New Economic Research and Development Seminar (NERDS), “Demand curves and consumer rationing rules in oligopoly” Lafayette College, April 2010
- Academic Research Committee Works-in-Progress seminar “Exploring the space of demand curves and consumer rationing rules” Lafayette College, March 2010
- Eastern Economic Association “Exploring the space of demand curves and consumer rationing rules” Philadelphia February 2010
- Patriot League Academic Conference “Virtual Corporate Reality” (with Joe Harrington) Bucknell University, October 2009
- Complexity Conference: Agents and Networks “Modeling the interfirm supply chain: An open-loop model for market context in environmental policy decisions” poster (with Jeff Pfaffmann) Northwestern Institute on Complex Systems, September 2009
- International Conference on Computing in Economics and Finance “Integrating Agent-Based Modeling and Life Cycle Analyses to Enhance Environmental Policy-Making” (with Jeff Pfaffmann) Sydney, July 2009
- NSF-sponsored Workshop on Classroom Experiments “Virtual Corporate Reality” (with Joe Harrington) College of William and Mary, May 2009
- Eastern Economic Association, Boston, February 2008, “Integrating Agent-Based Modeling and Life Cycle Analyses to Enhance Environmental Policy-Making” (with Sharon Jones and Jeffrey Pfaffmann)
- United States Society for Ecological Economics Conference, Creating Sustainability within our Midst: Challenge for the 21st Century, New York, June 2007: “The effects of shipper-receiver economics on the environmental impact of shipping pallets” (with Sharon Jones and Brian Laverty)
- Eastern Economic Association; Philadelphia, February 2006: “‘Acting Out’ not ‘Acting White.’ Risky Behaviors of White, Black, and Multiracial Youth” (with Susan Averett and Howard Bodenhorn)
- Allied Social Science Association; Boston, January 2006: “Colorism and African-American Wealth: Evidence from Nineteenth Century South” (w/ Howard Bodenhorn)

### **Conference, presentations, and invited talks (continued)**

- Southern Economic Association; Washington, D.C. November 2005: “Colorism & African-American Wealth: Evidence from Nineteenth Century South” (w/ Howard Bodenhorn)
- Persistent Interracial Inequality and Identity; Florida State University, March 2005: “Colorism & African-American Wealth: Evidence from Nineteenth Century South” (w/ Howard Bodenhorn)
- SUNY Binghamton Department of Economics seminar, February 11, 2005 “Colorism & African-American Wealth: Evidence from Nineteenth Century South” (w/ Howard Bodenhorn)
- International Industrial Organization Conference; Chicago, IL; Apr. 2004: “The Large-Firm Wage Premium, the Manager’s Scope of Responsibility, and Incentive Pay”
- Western Economic Association International; Vancouver, British Columbia; June 2004: “The Economics of Identity and the Endogeneity of Race,” with Howard Bodenhorn
- North American Winter Meeting of the Econometric Society; Washington DC; Jan. 2003: “Handedness and Earnings,” with Robert Moffitt and Joseph E. Harrington, Jr.;
- American Economic Association / Allied Social Sciences annual meeting; Washington DC; Jan. 2003 “The Economic Consequences of Race and Mixed-Race: Evidence from the 1860 Census,” with (and presented by) Howard Bodenhorn
- Lehigh University Seminar, 2002: “Robust Cooperation in Imitation Dynamics”
- European Association for Research in Industrial Economics; Madrid, Spain; Sept. 2002: “Estimating a Structural Model of One-Dimensional Vertical Differentiation for the Computer Hard Disk Drive Industry”
- The 13th Stony Brook Summer Festival on Game Theory; Stony Brook, NY; July 2002: “Robust Cooperation in Imitation Dynamics”
- European Association for Research in Industrial Economics; Dublin, Ireland; August 2001: “Product Exit in a Vertically Differentiated Market: Interfirm Competition vs. Intrafirm Cannibalization”
- The 7th Stony Brook Summer Festival on Game Theory; Stony Brook, NY; July 1996: “Imitation Dynamics and the Repeated Prisoners’ Dilemma: An Exploratory Example”

### **Senior honors theses (Economics unless otherwise noted)**

- Xinyu Hu `22 (Math) Investigating Evolutionary Game Theory: the Replicator Dynamics for Small Symmetric Games” (outside reader)
- Rabia Demirelli `21 “A Comparative Study on Social Entrepreneurship Education: Does it Work?” (primary supervisor, with Ben Cohen)
- Michelle Folley `19 (Math/Econ) “Developing a Sustainable Food Pantry System at Cheston Elementary School” (primary supervisor, with Trent Gaugler)
- Hoa Duong `19 (Economics and Mathematics joint thesis) “Vertical Wage Gap Structure in the Retail Industry and Its Effects on Firms’ Performance” (primary supervisor, with Jeffrey Liebner)
- Brandon Stralka `19 (Economics and Engineering studies joint thesis) “An Agent Based Approach to CO2 Reduction in Automobiles” (primary supervisor, with Julia Nicodemus)
- Kristen Cirincione `19 (Mechanical Engineering) “Modeling the Mechanical Behavior of Brain Tissue” (outside reader)
- Declan McGuire `17 (Psychology), “The Effects of Community Involvement of Collegiate Athletes on Team Identification Among Students” (outside reader)
- Joshua Arfin `17 (Mathematics), “Reweightings Schemes for Bootstrapping U-Statistics” (outside reader)
- Zoë Reinus `16 (Psychology), “Advertisements, Routes of Persuasion, and Health Literacy: Skepticism and Intent to Engage in Health Behavior” (outside reader)
- Anni Gao `15 (Mathematics), “Theory and Application of Hidden Markov Model (outside reader)
- Yemai Lee `15 (Mathematics), “A Brief History of Linear Algebra and Two Theses” (outside reader)



**Senior honors theses supervised (cont'd)**

- Bridget Rauch `15 (joint Mathematics and Psychology thesis), "The Perception of an Extortionate Strategy as a Human Opponent within the Iterated Prisoners' Dilemma" (outside reader)
- Sean Courtney `15 (English) "Tempt the Child with Freedom" (outside reader)
- Yue 'Jim' Yin `14 (A.B. Economics and B.S. Chemical Engineering), "Agent-Based Modeling of Capacity-Constrained Oligopoly With Informative Advertising" (primary advisor)
- Shannon Nitroy `14 (Economics/Mathematics joint thesis) "A Study of a New Curriculum: The Effect of Easton Weed and Seed's 'Summer Nights' Program on Summer Learning Loss" (primary advisor)
- Joyce Laura Wong Hon Chan `12 (double major, Economics and Mathematics), "The Environmental Implications of Endogenous Quality Choice in a Vertically Differentiated Oligopoly" (primary advisor)
- Edward Zhao `12, "High Scores: Quantifying the Correlation Between Video Games Sales and Video Game Journalism" (primary advisor)
- Phuong Anh Nguyen `12, "Performance Efficiency of Spanish Savings Banks: an Agent-Based Model of Market Concentration and Competition" (outside reader, International Economics and Commerce)
- Nan Li `12 "Impact of Taxation on Well-Being Across OECD Countries" (primary advisor, thesis not finished)
- Rachel Ingber `11, "Gifts, Gift Cards & Deadweight Loss" (primary advisor)
- Shiliang (John) Cui `09, "Models of Duopoly with a Capacity Constraint and Asymmetric Information" (primary advisor)
- Chutima "Gift" Tontarawongsa "Yardstick Competition and Quality, Evidence from English and Welsh Water Industries" (primary advisor, thesis not finished)
- Jacquelynn Molzon `08, "The Determinants of the Market Success of a Pharmaceutical Drug" (primary advisor)
- Brian Laverty `07, "Do Rich Eyeballs Pay? Direct Response Advertising Rates and Demographic Factors" (primary advisor)
- Dan Rosenblum `06, "Wireless telecommunications market structure across countries" (primary advisor)
- Kristin Tull `06, "Using game theory to evaluate sustainable environmental policy options for domestic open-loop pallets" (outside reader, A.B. Engineering)
- Alex Kadel `06, "Achieving mutual cooperation : an investigation into prisoner's dilemma and other non-zero sum games" (outside reader, Mathematics)
- Brian Regan `06, "Game theory and a generalization of cooperative games" (outside reader, Mathematics)
- Michael Tortora `05 / entering `06 "The Lafayette Student Athlete" (primary advisor, thesis not finished)
- Sarah Segal `05, "Do colleges practice price discrimination in order to increase quality?" (reader)
- Douglas Schiz `04, "An econometric location and gate revenue model for the National Football League" (reader)
- Nathan Delong `04, "Policy formulation using environmental and economic analysis of wooden pallets" (reader, A.B. Engineering)
- Jarrold Poveroma `03, "Past and present protectionist policies and their effects on the U.S. steel industry" (primary advisor, joint A.B. Engineering)
- Jennifer Conway `03, "The Role of Contributions in Presidential Primaries: Deciphering the Dollars" (primary advisor, joint Gov/Law)
- Suzanne Metzger `03, "What it takes to 'serve' satisfaction: an economic investigation of tipping and contests" (primary advisor)
- Meredith Sabosik `02, "Modern challenges to antitrust laws" (primary advisor, joint Gov/Law)
- Alison Purcell `02, "The economic determinants of teenage abortion" (reader)
- Mike Levey `02, "An econometric model for predicting the future expansions and contractions of U.S. Airline Hubs" (reader)
- Steve DiMauro `02, "An introduction to Game Theory and variations in the Game of Nim" (outside reader, Mathematics)

**EXCEL (unless otherwise specified) student research assistance**

- Rylee Bordwick `25: Proctor Fellow (Landis/Dyer Centers) work with Nurture Nature Center and Easton's Climate Action Plan developing student and class projects on campus
- Abigail Schuass `24: Proctor Fellow (Landis/Dyer Centers) work with Nurture Nature Center and Easton's Climate Action Plan developing student and class projects on campus
- Rachel Pitt `23: Data collection and modeling food waste generation and capture on a college campus
- Shuang Wu `22: Data collection and modeling food waste generation and capture on a college campus
- Gerri Agredo `20: Data collection for Easton Area Community Center's Summer Nights program
- Brandon Stralka `19: Agent-based Approach to CO2 Reduction in Automobiles (with Julia Nicodemus)
- Anna Evinski `19: Data collection for Easton Area Community Center's Summer Nights program
- Laurel Rogers `19: Data collection for Easton Area Community Center's Summer Nights program
- Jasmine Puri `18: Data collection for Easton Area Community Center's Summer Nights program
- Austin Bohtello `18: Data collection for Easton Area Community Center's Summer Nights program
- Ivan Evtimov `17: Mathematical modeling of Virtual Corporate Reality
- Bradley Marshall `16: Agent-based modeling and literature review of cell phone market
- Samuel Kalra `16: Modeling and testing of cell phone market simulation
- Yanel Garcia `16: Data collection for Easton Area Community Center's Summer Nights program
- Kevin Myers `15: Agent-based modeling of cell phone competition and innovation
- Patrick Pozzi `15 (with Rob Rot): Data collection and documentation for LV Research Consortium
- Yue Yin `14: Replication of simulation results in capacity-constrained duopoly
- Anna Harris `14 (with Rob Root): Data collection and documentation for LVResearch Consortium
- Kelly Loughney `14: Agent-based modeling of cell phone competition and innovation
- Nicholas Orzol `13: User interface for repeated investigation of parameter space in agent-based models
- Andrew O'Brien `13: Agent-based modeling of cell phone competition and innovation
- Hannah Grover `13: Presentation of quantitative and qualitative research on community gardens
- Joyce Laura Wong Hon Chan `12 (presented in student interdisciplinary series, not part of her thesis): NetLogo programming of Geographic Information Systems and the grocery supply chain
- Phuong Anh Nguyen `12 (presented in student interdisciplinary series, not part of her thesis): NetLogo programming and investigation
- Rachel Ingber `11: Geographic Information Systems, NetLogo, and shipping pallets in the grocery supply chain; History and context of 'Holiday Helpers' gift-giving to women and children in need
- Sarah Christy `10: Data and surveys for the Greater Lehigh Valley chapter of Buy Fresh Buy Local
- Chinh Do `10: Research on characteristics of the U.S. and E.U. cell phone markets
- Anthony Finizio `10: Research on characteristics of the shipping pallet market
- Aung Nang Lin `10: Research on Life Cycle Analyses of the cell phone and cell phone battery market
- Ed Seo `09: Grocery shipping pallet use
- Stefan McVeigh `08: Research and panel data on the computer hard disk drive market
- Thuy Lan Nguyen `07: Organization of data for survival analysis of computer hard disk drive models
- Brian Laverty `07 (presented at NCUR on work that was not his thesis): GIS analysis of shipping pallet recyclers and repairers in Pennsylvania and Indiana; Collection of cross-country data on television direct response advertising rates
- Dimitar Marmarov `07 (presented in Skillman's Student Research Forum on work that was not his thesis): Organization of data on New Jersey's 1896 oyster industry
- Michael Tortora `05 / entering `06: Organization of panel data on retail firms' salary and non-salary compensation; Collection of data on Lafayette soccer team academic and athletic performance
- Katharine Wolchik `05: Analytical characterization of repeated prisoners' dilemma generalized evolutionary behavior
- John Zembron `04 (presented at NCUR; no thesis): Organization of panel data on retail firms' salary and non-salary compensation
- Suzanne Metzger `03: Organization of panel data on retail firms' salary and non-salary compensation; Collection and processing of data on local restaurant's server compensation

**EXCEL, student research assistance (cont'd)**

Prashant Poddar '04 (presented at NCUR, on work that was not his thesis): Coding of agent-based modeling simulation for studying the repeated prisoners' dilemma

**Courses Taught**

Lafayette College (2000-present)

*Principles of Economics* (Econ 101)

*Intermediate Microeconomics* (Econ 211)

*Many Markets, Many Londons, Many Cultures* (Econ 131/231)

*Social & Ethical Issues in Health Care in the U.K. & U.S.* (INDS 245 / INDS 380)

*Evolutionary Game Theory* (Econ 246 / Math 246, was 256)

*Industrial Organization: Market Structure* (Econ 331)

*Industrial Organization: Marketing to Consumers* (Econ 360)

*Marketing Research* (Econ 361)

*Computational Simulation of Markets and Behavior* (Econ 375, Econ 410 capstone)

*Independent Study* (Econ 390/391)

History and Ideas of Austrian Economics (Lauren Pacifico '11)

Advanced Industrial Organization using Tirole text (Qi Sun '11)

Theory & Practice of Auctions (Allyson Papageorge '14)

Agent-based Modeling of the Cell Phone Market (Zishen Chen '19)

*Capstone experiences* for self-designed Consumer Behavior majors (w/Dave Shulman)

Veronica Lloyd '16, Sarah Fryfield '16

Caroline Ponzi '17, Lauren Lang '17

Loyola College of Maryland (1998-2000): *Microeconomics Principles* (EC102)

The Johns Hopkins University (Summer 1997, 1998): *Investment & Portfolio Management* (Econ 304)

**Funding agency review panels**

Directorate for Engineering ad hoc review panel, National Science Foundation, 2019

Interdisciplinary review panel for the National Science Foundation, 2011

Directorate for Engineering review panel, National Science Foundation, 2008

**Sessions organized at academic conferences**

Eastern Economic Association: sessions on Agent-based Computational Economics, 2011, 2012, 2013, 2015, 2016, 2018, 2019 – with Jason Barr, German Creamer, Alan Isaacs, Leanne Ussher, Troy Tassier

Western Economic Association International sessions on Agent-Based Modeling, 2010 (sole organizer), 2011, 2013, 2014, 2016, 2018 – with David Dixon

## **Manuscript referee**

*American Economic Review*  
*Review of Economics and Statistics*  
*Journal of Labor Economics*  
*Journal of Health Economics*  
*Journal of Economic Behavior and Organization*  
*Economic Inquiry*  
*Economica*  
*Eastern Economic Journal*  
*Feminist Economics*  
*Journal of Economic Education*  
*Journal of Industrial Organization Education*  
*Social Computing, Behavioral Modeling, and Prediction*  
*Journal of Industrial Ecology*

## **Administrative service at Lafayette College**

### College-wide

Progress, Tenure, and Review Committee  
Financial Compensation Committee (chair, 2014-15 and 2015-16)  
Teaching and Learning Committee (chair, 2021-22 and 2022-23)  
Instructional Technology Advisory Committee  
Provost Search Committee  
Engineering Studies Advisory Committee  
Health Professions Advisory Committee  
Off-Campus Study Advisory Committee, and chair  
Organizational Studies Advisory Committee  
IDEAL/Dyer Center Advisory Board  
Inaugural Dyer Center Faculty Director  
Inaugural Proctor Faculty Fellow (Landis and Dyer Centers)  
Faculty advisor to Collegiate Entrepreneurs' Organization  
Faculty advisor to Lafayette Consulting Group club  
Center for Community Engagement Advisory Committee  
Marquis Fellows and Scholars advisor  
Ad hoc Committee on Business in the Liberal Arts  
Ad hoc committee to choose Jack Kent Cooke Scholarship nominees  
Instructional Technology external review input  
First Year orientation program discussion groups, nearly annually since 2001  
Presentation for Experience Lafayette students & parents weekend  
Attended NCUR meeting with student scholars  
Student Government Faculty Teas, Hosted visiting French teachers  
Marquis Scholar Days luncheons, Lafayette Prologue alumni dinner  
Swim team faculty mentor, Women's basketball team faculty mentor, International student sponsor

## **Administrative service at Lafayette College (continued)**

### Department of Economics

Search committees for Economics, Economics & Business  
Assessment committee  
Honors students group meetings  
(with Matt Larson, Yang Wang, David Stifel, Julie Smith, Amy Guisinger)  
Contacting Marquis and Trustee Scholars with interest in Economics & Business  
Presentations to prospective E&B majors during first year students' orientation week  
Advisor to CIRCLE student committee  
Occasional contribution to Fed Challenge team's preparation  
Web page and handbook revisions  
Remote-hosting of ODE honor society dinner

## **Expertise in computation and data analysis**

Programming languages: C, Java, Fortran90, Mathematica, NetLogo  
Statistical packages: Stata, SAS, Gauss  
Database applications: SQL, Microsoft Access, Filemaker Pro  
Platforms: MacOS, UNIX, Windows, DOS  
Large Data sets: National Longitudinal Survey of Youth, National Longitudinal Study of Adolescent Health

## **Community service**

Lehigh Valley Research Consortium (current): Executive Board  
Cub Scout Pack 21: Cubmaster, Den Leader, Pack Committee Chair