

Robert L. Bray

curriculum vitae

Academic Positions

- 2016– Associate Professor of Managerial Economics and Decision Sciences
Kellogg School of Management, Northwestern University, Evanston, IL
- 2013–16 Assistant Professor of Managerial Economics and Decision Sciences
Kellogg School of Management, Northwestern University, Evanston, IL
- 2012–13 Donald P. Jacobs Scholar of Managerial Economics and Decision Sciences
Kellogg School of Management, Northwestern University, Evanston, IL

Education

- 2007–12 Stanford Graduate School of Business, Stanford, CA
PhD, Operations, Information, and Technology
- 2002–06 University of California at Berkeley, Berkeley, CA
B.S. Industrial Engineering Operations Research
Graduated ‘High Honors’

Research

Publications

- 2012 [1] Information Transmission and the Bullwhip Effect: An Empirical Investigation.
Coauthor: Haim Mendelson
Outlet: *Management Science*, 58.5 (2012): 860-875
Finalist: Management Science Best Paper in Operations Management Award, 2014
Finalist: Management Science Best Paper in Operations Management Award, 2015
Finalist: George Nicholson Student Paper Competition, INFORMS, 2011
Finalist: MSOM Student Paper Competition, MSOM Society, 2011
Winner: Best Student Paper Competition, POMS Supply Chain College, 2011
- 2015 [2] Production Smoothing and the Bullwhip Effect
Coauthor: Haim Mendelson
Outlet: *Manufacturing & Service Operations Management*, 17.2 (2015): 208-220
Finalist: M&SOM Best Paper Award, 2018
Finalist: M&SOM Best Paper Award, 2017
- 2016 [3] Multitasking, Multi-Armed Bandits, and the Italian Judiciary
Outlet: *Manufacturing & Service Operations Management*, 18.4 (2016): 545-558
Coauthors: Decio Coviello, Andrea Ichino, and Nicola Persico
- 2018 [4] Ration Gaming and the Bullwhip Effect
Coauthors: Yuliang Yao, Yongrui Duan, Jiazhen Huo
Outlet: Forthcoming at *Operations Research*
- 2018 [5] Markov Decision Processes with Exogenous Variables
Outlet: Forthcoming at *Management Science*
- 2018 [6] Supply Chain Proximity and Product Quality
Coauthors: Juan Serpa, Ahmet Colak
Outlet: Forthcoming at *Management Science*

Research (continued)

2018 [7] Strong Convergence and Dynamic Economic Models
Outlet: Forthcoming at *Quantitative Economics*

Submitted Manuscripts

2018 [8] Why Do Auto Manufacturers Initiate Recalls? A Structural Econometric Game
Coauthor: Ahmet Colak
Outlet: Revise and resubmit at *Management Science*

2018 [9] Operational Transparency: Showing When Work Gets Done
Outlet: Under review at *Manufacturing & Service Operations Management*
Finalist: MSOM Data Driven Research Challenge, MSOM Society, 2018

Cases

2011 [10] The Kindle
Coauthor: Haim Mendelson
Outlet: Stanford GSB's e-commerce class

Awards

2018 Finalist, MSOM Data Driven Research Challenge, MSOM Society

2018 Manufacturing & Service Operations Management Meritorious Service Award

2018 Finalist, Manufacturing & Service Operations Management Best Paper Award

2017 Finalist, Manufacturing & Service Operations Management Best Paper Award

2016 Outstanding Reviewer Recognition, Production & Operations Management Society

2015 Finalist, Management Science Best Paper in Operations Management Award

2014 Finalist, Management Science Best Paper in Operations Management Award

2011 Winner, Best Student Paper Competition, Production and Operations Management Society, College of Supply Chain Management

2011 Finalist, George Nicholson Student Paper Competition, INFORMS

2011 Finalist, MSOM Student Paper Competition, MSOM Society

2007–12 Doctoral Fellowship, Stanford GSB

2005 Undergraduate Research Opportunities Grant, UC Berkeley

2002-04 Alumni Scholarship for Leadership, UC Berkeley

Teaching

Courses

2013– Core Operations Management
Role: Instructor
Institution: Kellogg School of Management
Level: MBA

Teaching (continued)

- 2014 Estimating Dynamic Programs
Role: Course creator and instructor
Institution: Kellogg School of Management
Level: PhD
- 2009–11 Introduction to Operations Management
Role: Part time lecturer
Institution: Stanford GSB
Level: PhD
- 2009–11 Electronic Commerce
Role: Teaching assistant
Institution: Stanford GSB
Level: MBA
- 2006 Discrete Event Simulation
Role: Teaching assistant
Institution: UC Berkeley College of Engineering
Level: Undergraduate

Advising

- 2013–17 PhD advisor to Ahmet Colak, at Kellogg
Placement: Clemson University, Operations Management
- 2013 PhD oral defense committee member for Seyed Emadi, at Kellogg
- 2015 PhD oral defense committee member for Serasu Duran, at Kellogg
- 2018 PhD oral defense committee member for Nil Karacaoglu, at Kellogg

Professional Experience

- 2016– Senior editor at Production and Operations Management
- 2015 Co-chair of the MSOM Supply Chain SIG
- 2013 Keynote speaker at E2Open's supply chain round-table
- 2009–10 President of PhD Association at Stanford GSB
- 2006–07 Semiconductor manufacturing consultant at Leachman & Associates
- 2005 Manufacturing engineering co-op at Intel
- 2005 Industrial engineering co-op at Disneyland
- 2004–05 Research assistant at Cohn Visual Detection Laboratory, UC Berkeley

Professional Experience (continued)

- 2009– Referee
Management Science
Operations Research
Manufacturing and Service Operations Management
Production and Operations Management
Math of Operations Research
Journal of Operations Management
International Journal of Production Research
Econometrica
Quantitative Economics
IIE Transactions on Healthcare Systems Engineering
MSOM student paper competition
MSOM supply chain SIG
MSOM services SIG
POMS Supply Chain Student Paper Competition
INFORMS interactive poster session
- 2004–2014 Academic programs
Kellogg Faculty Immersion Trip to Brazil
Chicago-Argonne Initiative for Computational Economics
Georgia Tech East Asia Industrial Engineering Program

Invited Presentations

- 2010-11 Information Transmission and the Bullwhip Effect
Caterpillar Headquarters
Wharton Workshop on Empirical Research in OM
- 2011-14 Production Smoothing and the Bullwhip Effect
Marshall School of Business, University of Southern California
Columbia Business School
Fuqua School of Business, Duke University
Harvard Business School
Kellogg Graduate School of Management, Northwestern University
Rady School of Management, University of California, San Diego
Stern School of Business, New York University
Wharton School, University of Pennsylvania
Wharton Workshop on Empirical Research in OM
MSOM Supply Chain SIG (2012, 2014)
- 2015 Multitasking, Multi-Armed Bandits, and the Italian Judiciary
Lehigh University College of Business and Economics
Wharton Workshop on Empirical Research in OM
- 2015 Why Do Auto Manufacturers Initiate Recalls? A Structural Econometric Game
Lubar School of Business, University of Wisconsin, Milwaukee
- 2016 Strong Convergence and the Estimation of Markov Decision Processes
University of Calgary Empirical Microeconomics Workshop
- 2017-18 Ration Gaming and the Bullwhip Effect
McCombs School of Business, University of Texas, Austin
Desautels Faculty of Management, McGill University
CIRRELT, Montréal
Robert Smith School of Business, University of Maryland
MSOM Supply Chain SIG
Fisher College of Business, Ohio State University
Baruch College, The City University of New York
SC Johnson College of Business, Cornell University

Press

- 2013 Whipping the Supply Line into Shape
Outlet: KelloggInsight
- 2015 A Smarter Way to Schedule
Outlet: KelloggInsight
- 2018 A Counterintuitive Way to Keep Shelves Stocked and Prices Down
Outlet: KelloggInsight