

# Robert L. Bray

*curriculum vitae*

## Academic Positions

- 2016– Associate Professor of Managerial Economics and Decision Sciences  
Kellogg School of Management, Northwestern University, Evanston, IL
- 2013–2016 Assistant Professor of Managerial Economics and Decision Sciences  
Kellogg School of Management, Northwestern University, Evanston, IL
- 2012–2013 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.  
Outlet: *Management Science*. 58.5 (2012): 860-875  
Coauthor: Haim Mendelson  
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  
Outlet: *Manufacturing & Service Operations Management*, 17.2 (2015): 208-220  
Coauthor: Haim Mendelson  
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] Strong Convergence and the Estimation of Markov Decision Processes  
Outlet: Forthcoming at *Quantitative Economics*

### *Submitted Manuscripts*

- 2018 [5] Ration Gaming and the Bullwhip Effect  
Outlet: Revise and resubmit at *Operations Research*  
Coauthors: Yuliang Yao, Yongrui Duan, Jiazhen Huo

## Research (continued)

- 2018 [6] Supply Chain Geography and Product Quality  
Outlet: Revise and resubmit at *Management Science*  
Coauthors: Juan Serpa, Ahmet Colak
- 2018 [7] Why Do Auto Manufacturers Initiate Recalls? A Structural Econometric Game  
Outlet: Revise and resubmit at *Management Science*  
Coauthor: Ahmet Colak
- 2018 [8] Markov Decision Processes with Exogenous Variables  
Outlet: Revise and resubmit at *Management Science*

### *Cases*

- 2011 [9] The Kindle  
Outlet: Used in Stanford's e-commerce class  
Coauthor: Haim Mendelson

## Awards

- 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*

- 2013–2018 Core Operations Management  
Role: Instructor  
Institution: Kellogg School of Management  
Level: MBA
- 2014 Estimating Dynamic Programs  
Role: Course creator and instructor  
Institution: Kellogg School of Management  
Level: PhD

## Teaching (continued)

- 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*

- 2013–2017 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 of the Big Data in Supply Chain Management special issue of POMS
- 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
- 2009–2018 Referee  
Management Science  
Operations Research  
Manufacturing and Service Operations Management  
Production and Operations Management  
Econometrica  
Quantitative Economics  
Journal of Operations Management  
International Journal of Production Research  
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

## Professional Experience (continued)

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

## Press

2013 Whipping the Supply Line into Shape  
Outlet: KelloggInsight

2015 A Smarter Way to Schedule  
Outlet: KelloggInsight