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Revised: January 17, 2018

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, 2016
- 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

Submitted Manuscripts

- 2018 [4] Ration Gaming and the Bullwhip Effect
Outlet: Revise and resubmit at *Operations Research*
Coauthors: Yuliang Yao, Yongrui Duan, Jiazhen Huo

Research (continued)

- 2018 [5] Supply Chain Geography and Product Quality
Outlet: Revise and resubmit at *Management Science*
Coauthors: Juan Serpa, Ahmet Colak
- 2018 [6] Why Do Auto Manufacturers Initiate Recalls? A Structural Econometric Game
Outlet: Revise and resubmit at *Management Science*
Coauthor: Ahmet Colak
- 2018 [7] Strong Convergence and the Estimation of Markov Decision Processes
Outlet: Revise and resubmit at *Quantitative Economics*
- 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

- 2016 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

- 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