

GEMMA BERENGUER

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EDUCATION

University of California, Berkeley Ph.D. in Industrial Engineering & Operations Research	2007 - 2012
Zaragoza Logistics Center - Massachusetts Institute of Technology M.Eng. in Logistics and Supply Chain Management (ZLOG)	2006 - 2007
Barcelona Graduate School of Economics (Spain) M.Sc. in Economics	2005 - 2006
Universitat Politècnica de Catalunya, Barcelona (Spain) Mathematics (Llicenciatura, 5-year Degree)	2000 - 2005

EMPLOYMENT

Purdue University, Krannert School of Management Assistant Professor, Operations Management <i>(Maternity leave in AY2015-16 and AY2017-18)</i>	2012 - Present
University of California, Berkeley Graduate Student Researcher Graduate Student Instructor, courses at IEOR Dept. and Haas School of Business	2009 - 2012
Santa Clara University, Leavey School of Business Instructor, undergraduate core OM course	Sep 2010- May 2011
Lawrence Berkeley National Labs Graduate Researcher, Energy Efficiency Standards Group	Sep 2009 - June 2010
BTI Group, Mergers and Acquisitions Analyst	June 2008 - August 2008

RESEARCH & TEACHING INTERESTS

Operations Management, Supply Chain Management, Nonprofit Operations, Sustainable and Socially Responsible Operations, Global Healthcare, Closed-loop Supply Chain Design.

PUBLICATIONS

Journal Articles

1. “Challenges and Strategies in Managing Nonprofit Operations: an Operations Management perspective”, with Zuo-Jun (Max) Shen, forthcoming at *Manufacturing & Service Operations Management*.
2. “Gender diversity issues in the IT industry: How can your sourcing group help?”, with Nikita Atal and Sameer Borwarkar, 2019, *Business Horizons*, 62(5) p.595-602.
3. “Location, inventory and testing decisions in closed-loop supply chains: a multimedia company”, with Zhi-Hai Zhang and Xiaoyong Pan, 2019, *IIE Transactions*, 51(1) p.41-56 (formerly *IIE Transactions*).
4. “The Effects of Subsidies on Increasing Consumption through For-Profit and Not-for-Profit Newsvendors”, with Annabelle Feng, George Shanthikumar, and Lei Xu, 2017, *Production and Operations Management*, 26(6) p.1191-1206.
- Skinner Best Paper Award 2017 (best paper published at POM in 2017)
5. “Disentangling the Efficiency Drivers in Country-level Global Health Programs: an Empirical Study”, with Ananth Iyer and Prashant Yadav, 2016, *Journal of Operations Management*, 45 p.30-43.
6. “A Capacitated Facility Location Model with Bidirectional Flows”, with Zhi-Hai Zhang and Zuo-Jun (Max) Shen, 2015, *Transportation Science*, 49(1) p.114-129.
7. “A Conic Integer Programming Approach to Location-Inventory Problems”, with Alper Atamtürk and Zuo-Jun (Max) Shen, 2012, *Operations Research*, 60(2) p.366-381.

Book Chapters

1. “Modeling approaches and metrics to evaluate nonprofit operations”. *Advances in Managing Humanitarian Operations*, book edited by Altay, Nezih, Haselkorn, Mark P., Zobel, Christopher W., Springer (2015).
2. “Transportation-Location Problem for a Solar Stove Distributing Nonprofit Organization”, with Amber Richter and Zuo-Jun (Max) Shen, *Case studies in Operations Research: Applications of Optimal Decision Making*, book edited by Katta G. Murty, Springer (2014).

Conference Publications

1. “Role of sourcing practices in improving gender equality in the IT industry”, with Atal, Nikita and Borwarkar, Sameer, Gender and Leadership Excellence in Organizations Conference, Purdue University, March 2018.
2. “Raw Material Variability in Food Manufacturing”, with Bourquard, Brian A., Gray, Allan W. and Preckel, Paul, Agricultural and Applied Economics Association (AAEA) conference paper, Chicago Meeting, June 30 2017.

Other Publications

1. “A Prologue to the Special Issue on Not-for-Profit Operations Management”, with Pinar Keskinocak, J. George Shanthikumar, Jayashankar Swaminathan and Luk N. Van Wassenhove, 2017, *Production and Operations Management*, 26(6) p.973-975.
2. “Benchmarking Supply Chains for Better Performance”, with Ananth Iyer, Prashant Yadav and Amanda Glassman, 2015, *Center for Global Development*, Policy Paper 057.
3. “Nonprofit Operations”, 2014, *POMS Chronicle*, 12(1) p. 12-10.

Working Papers

- “Supply constrained location-distribution in not-for-profit settings”, with Chong H. Park, minor revision at *Production and Operations Management*.
- “Raw material variability in food manufacturing: a data-driven snack food industry case”, with Brian Bourquard, Paul Preckel and Allan Gray, under review.
- “Volunteers and paid workers in a nonprofit operation: trade-offs and social outcomes”, with Lei Li, to be submitted very soon.
- “The alternating direction method of multipliers for the capacitated facility location problem”, with Ying Cao, Cristobal Pais and Borja Peleato, to be submitted very soon.
- “Design of a subsidized reverse supply chain in the Chinese electronics industry”, with Zhi-Hai Zhang and Yanzi Zhang, in preparation.
- “The role of donors in global health supply chains”, with Iva Rashkova, submitted, invited chapter, book “Responsible Operations” edited by Jay Swaminathan and Vinayak Deshpande, Springer.

TEACHING EXPERIENCE

Krannert School of Management, Purdue University 2012 - Present

- Introduction to Operations Management, MBA core course (2015-Present)
- Supply Chain Management, MBA elective (2014-Present)
- Sustainable and Socially Responsible Operations, MBA elective (2013-2017)
- Optimization and Supply Chain Design, PhD course (2014)
- Operations Management, undergraduate core course (2013)

Leavey School of Business, Santa Clara University 2010 - 2011

- Operations Management, undergraduate core course

TALKS

Research Seminars

“Supply Constrained Location-Distribution in Nonprofit Settings”

- Naval Postgraduate School, Monterey CA (November 2019)
- Northwestern University, Industrial Engineering & Management Sciences (October 2019)

“Raw Material Variability in Food Manufacturing: a data-driven snack food industry case”

- IE Business School (June 2019)

“Benchmarking for Improving the Efficiency of Global Health Supply Chains”

- Purdue University, Krannert Healthcare Research seminar series (June 2015)
- Pennsylvania State University (November 2013)

“Supply Chain Design: A Novel Solution Approach and a Humanitarian Setting”

- University of Michigan (February 2012)
- McGill University (February 2012)
- Purdue University (January 2012)
- Indiana University (January 2012)
- London Business School (January 2012)
- Santa Clara University (January 2012)

Mini-conferences, workshops, panel discussions

- Moderator, panel discussion “Public Sector OM: A panel discussion”, POMS conference, 2019
- Panelist, lunch panel on “Womenomics, Economics, & Human Rights”, Purdue Policy Research Institute, 2018
- Speaker, Environmentally Sustainable Supply Chain Management Workshop for Early-Career Faculty, 2016, Raleigh
- Panelist and moderator, “Nonprofit Operations” Tutorial, POMS Annual Meeting 2014, Atlanta
- Speaker, Utah Winter Operations Conference, 2014, Snowbird

Conference Presentations

- POMS Annual Meeting 2019 Washington D.C.
- INFORMS Annual Meeting 2018 Phoenix
- POMS Annual Meeting 2018 Houston
- INFORMS International Conference 2016 Hawaii
- POMS Annual Meeting 2016 Orlando
- INFORMS Annual Meeting 2014 San Francisco
- POMS Annual Meeting 2014 Atlanta
- 6th Global Health Supply Chain Summit, November 2013, Addis Ababa (Ethiopia)
- INFORMS Annual Meeting 2013 Minneapolis
- INFORMS Healthcare 2013 Chicago
- 5th Global Health Supply Chain Summit, November 2012, Kigali (Rwanda)
- INFORMS Annual Meeting 2012 Phoenix
- INFORMS Annual Meeting 2011 Charlotte
- POMS Annual Meeting 2011 Reno
- INFORMS Annual Meeting 2010 Austin

Humanitarian Logistics Conference 2010 Georgia Tech, Atlanta (poster)
 INFORMS Annual Meeting 2009 San Diego
 MIP2009, Mixed Integer Programming Workshop Series, U.C. Berkeley (poster)

GRANTS AND RESEARCH AWARDS

Wickham Skinner Best Paper Award, winner	2018
Best paper published at POM journal in 2017 (\$1,000)	
CORE 7FP European Commission grant	May 2017- May 2018
Grant for R&D research with Procter & Gamble, BCP section	
Adani Port Operations grant	2016
Grant for research, Adani Group (\$3,500)	
SOLA-Air Products Bi-Annual Dissertation Award, winner	2014
INFORMS, Section on Location Analysis (\$1,000)	
John and Mary Willis Young Faculty Scholar Award	2014
Krannert School of Management, Purdue University (\$10,000).	
Center for Global Development grant	2013
Grant for research (\$25,000).	
The Doug and Maria DeVos Faculty Summer Support Award in Global Supply Chain Management	2012
Krannert School of Management, Purdue University (\$25,000).	
Katta G. Murty Best Paper Prize, U.C. Berkeley	2010
Awarded by IEOR faculty to the best student paper in optimization.	
MOT-China Fellow, U.C. Berkeley	2008
Granted for building knowledge and learning about Chinese business customs.	
La Caixa Graduate Fellowship, Fundació La Caixa	2007 - 2009
Granted for 24 months of fully covered graduate studies in the U.S.	
ZLOG Best Thesis Award and PILOT Award for the Best Thesis	2007
Zaragoza Logistics Center (6000 euros)	
Full-tuition Scholarship, ZLOG	2007
Centro Nacional de Competencia en Logística Integral	
Erasmus Scholarship, Université Pierre et Marie Curie (Paris)	Sep 2005 - June 2006
Courses in Mathematics	

TEACHING AWARDS

Master's Outstanding and Distinguished Teacher, Krannert, Purdue University

MGMT660 Introduction to OM (2015, 2016, 2017, 2018, 2019)
 MGMT664 Supply Chain Management (2015, 2016, 2017, 2018, 2019)
 MGMT690 Sustainable and Socially Responsible Operations (2013, 2014, 2015, 2016, 2017)
 MGMT361 Operations Management (2013)

Outstanding Graduate Student Instructor Award, U.C. Berkeley 2010

Awarded by U.C. Berkeley's Teaching Center, less than 5% teacher assistants receive it.

SERVICE AWARDS

2018 M&SOM Meritorious Service Award 2018

EDITORIAL SERVICE

Editorial Review Board, POM Journal (2015-Present)

Guest Senior Editor, POM Journal (2018)

Guest Editor, POM Journal, Special Issue on Not for profit Operations Management, 2014-2017.

Referee, Management Science, M&SOM, Production and Operations Management, Naval Research Logistics, European Journal of Operational Research, Journal of Operations Management, Decision Sciences, Mathematical Methods of Operational Research, Omega, OR Spectrum, Production Planning and Control, IJOPM, Journal of the Operational Research Society, A Quarterly Journal of Operations Research.

Grant Reviewer, Advanced Research Projects Agency-Energy (ARPA-E)

SERVICE AND AFFILIATIONS

Track Chair

POMS Conference 2019, Public Sector OM track, Washington D.C.

POMS Conference 2015, HOCM track, Washington D.C.

Session Chair

POMS Conference 2019 Washington D.C.

INFORMS 2018 Phoenix

POMS Conference 2018 Houston

POMS Conference 2017 Seattle

INFORMS 2016 Nashville

POMS Conference 2016 Orlando

INFORMS 2014 San Francisco

POMS Conference 2014 Atlanta

INFORMS Healthcare 2013 Chicago

INFORMS 2012 Phoenix

Competition chair

INFORMS Doing Good with Good OR, Student Paper Competition Co-chair 2018

Judge

INFORMS Doing Good with Good OR, Student Paper Competition Committee (2016-19)
– Co-chair of the competition (2018)

POM Sustainability College, Student paper competition, 2018, 2019
POM Supply Chain College, Student Paper Competition, 2016, 2018
INFORMS Public Sector OR Section Best Paper Award, 2015, 2017
Krannert Graduate Student Association Case Competition 2014, 2015
Deloitte Supply Chain Challenge, 2017, 2018, 2019

Purdue University Service

Architectural and Landscape Design and Planning Committee (2017-2022)

Krannert School of Management Service

Innovation Research/Teaching Committee (Fall 2018, Spring 2019)
Specialized Masters Program Faculty Committee (Fall 2017)
STAR (Supplement for teaching and research) Committee (Fall 2016)
Faculty student mentoring lunch (Fall 2017, Fall 2018)
Krannert PRF Doctoral grants reviewer

PhD Dissertation Committee Chair

Lei Li (Ph.D student, Krannert, 3rd year)

PhD Dissertation Committee Member

Tania Barreto (Transportation, Ph.D. 2020)
Zhaoyu Kou (IE Department, Ph.D. 2020)
Yue Gu (Aviation Technology, Ph.D. 2019)
Brian Bourquard (Agricultural Economics, Ph.D. 2018)
Lukas Rudari (Aviation Technology, Ph.D. 2017)
Heejong Lim (Operations Management, Ph.D. 2016)
Chong H. Park (Quantitative Methods, Ph.D. 2016)
Aditya Vendantam (Operations Management, Ph.D. 2015)

Master Dissertation Committee Member

Matthew Canter (Master of Science in Technology, Purdue Polytechnic Institute, 2019)

Advisor to visiting students

Yanzi Zhang (Ph.D. student visitor, Tsinghua University, October 2017 - April 2018)
Ying Cao (PhD. student, University of California, Berkeley, June - August 2016)

Professional member, INFORMS, MSOM, POMS.

Faculty advisor

Net Impact, Krannert Graduate Chapter (2014-Present)
Krannert Hispanic Management Association (2014-Present)
Undergraduate Soybean competition (2016-2017)

MEDIA APPEARANCES AND INTERVIEWS

- ZLC Alumni Interview, Interview, August 2017
- Inside Supply Management Magazine, Inside Technology supplement: “Keeping Up with the Curve”, expert opinion, July 2016
- FME Newsletter, The Interview, September 2013

INDUSTRY COLLABORATIONS

Adani Ports, Center for Global Development, Noble of Indiana, Procter & Gamble, Sichuan Changhong Electric Co. Ltd., Solar Household Energy Inc.