

# GEMMA BERENGUER

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## EDUCATION

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

## EMPLOYMENT

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| <b>Universidad Carlos III de Madrid (UC3M)</b><br>Ramón y Cajal Fellow (2021 - Present)<br>Assistant Professor, Operations Management (Dept. of Business Administration) | Sept. 2020 - Present    |
| <b>Purdue University, Krannert School of Management</b><br>Assistant Professor, Operations Management<br>( <i>Maternity leave in AY2015-16 and AY2017-18</i> )           | 2012 - June 2020        |
| <b>University of California, Berkeley</b><br>Graduate Student Researcher and Instructor  | 2009 - 2012             |
| <b>Santa Clara University, Leavey School of Business</b><br>Instructor, undergraduate core OM course   | Sep 2010- May 2011      |
| <b>Lawrence Berkeley National Labs</b><br>Graduate Researcher, Energy Efficiency Standards Group   | Sep 2009 - June 2010    |
| <b>BTI Group, Mergers and Acquisitions</b><br>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. “Raw material variability in food manufacturing: a data-driven snack food industry case”, with Brian Bourquard, Paul Preckel and Allan Gray, 2022, *Production & Manufacturing Research*, 10(1), p.294-320 (Open Access).
2. “Supply constrained location-distribution in not-for-profit settings”, with Chong H. Park, 2020, *Production and Operations Management*, 29(11), p.2461–2483.
3. “Challenges and Strategies in Managing Nonprofit Operations: an Operations Management perspective”, with Zuo-Jun (Max) Shen, 2020, *Manufacturing & Service Operations Management*, 22(5), p.888-905.
4. “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.
5. “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*).  
 - *Honorable Mention, Best Paper 2019 IIE Transactions Scheduling and Logistics Focus*
6. “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.  
 - *Winner of Wickham Skinner Best Paper Award 2017 (best paper published at POM in 2017)*
7. “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.
8. “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.
9. “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.
10. “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. “The role of donors in global health supply chains”, with Iva Rashkova, *Responsible Business Operations* book edited by Jay Swaminathan and Vinayak Deshpande, Springer (2021).
2. “Modeling approaches and metrics to evaluate nonprofit operations”. *Advances in Managing Humanitarian Operations*, book edited by Altay, Nezhir, Haselkorn, Mark P., Zobel, Christopher

W., Springer (2015).

3. “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. “Public Sector OM Research”, 2020, *POMS Chronicle*, 27(1) p. 10-11.
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*, 21(1) p. 12-10.

### Working Papers

- “Managing volunteers and paid workers in a nonprofit operation”, with Lei Li and Will Haskell, under review after major revision *Management Science*.
- “The Role of Supply Chain Intermediaries in Improving Decent Work in Higher Education Institutions in Low- and Medium-Income Countries”, with Mohammad Moshtari, under revision.
- “Charitable Crowdfunding: The Focused Charity Evaluators Model”, with Dashi Singham, in preparation.
- “The state of supplier diversity of the largest worldwide corporations” with Natalia Costas and Anna Saez de Tejada Cuenca, in preparation.

## TEACHING EXPERIENCE

**Department of Business Administration, Universidad Carlos III** 2020-Present

- Supply Chain Management, MBA elective course (2022)
- Operations Management, MBA core course (2020 - Present)
- Operations Management, undergraduate core course (2020 - Present)

**Krannert School of Management, Purdue University** 2012 - Present

- Supply Chain Management, IMM Global Executive MBA elective course (2022)

- Operations Management, IMM Global Executive MBA core course (2021)
- Introduction to Operations Management, MBA core course (2015-2020), MSBAIM (2019)
- Supply Chain Management, MBA elective (2014-2020)
- 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

### Invited Research Seminars

“Nonprofit operations: managing volunteers and paid workers”

- Virginia Tech (April 2022) - virtual seminar
- Universitat Pompeu Fabra (March 2022)
- European TOM Seminar Series (May 2021) - virtual seminar

“Supply Constrained Location-Distribution in Nonprofit Settings”

- Universidad Complutense de Madrid, Instituto de Matemática Interdisciplinar (October 2021)
- Sharif University of Technology, Tehran, Iran (December 2020) - virtual seminar
- Naval Postgraduate School, Monterey CA (November 2019)
- Northwestern University (October 2019)

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

- UC3M (December 2019)
- 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 2022 (Virtual)  
 POMS Annual Meeting 2021 (Virtual)  
 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)

### RESEARCH GRANTS

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| <b>State Program to Promote Scientific-Technical Research, sole PI</b><br>Spanish Ministry of Science and Innovation   | 2022-2024          |
| <b>Ramón y Cajal Fellowship, sole PI</b><br>Research excellence grant from the Spanish Ministry of Science and Innovation                                      | 2021-2025          |
| <b>CORE 7FP European Commission grant</b><br>Grant for R&D research with Procter & Gamble, BCP section (\$50,000)  | May 2017- May 2018 |
| <b>Adani Port Operations grant, co-PI</b><br>Grant for research, Adani Group (\$3,500)   | 2016               |
| <b>Center for Global Development grant, co-PI</b><br>Grant for research (\$25,000).  | 2013               |
| <b>The Doug and Maria DeVos Faculty Summer Support Award in Global Supply Chain Management</b><br>Krannert School of Management, Purdue University (\$25,000). | 2012               |
| <b>MOT-China Fellow, U.C. Berkeley</b><br>Granted for building knowledge and learning about Chinese business customs (approx. \$3,000).                        | 2008               |

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| <b>La Caixa Graduate Fellowship</b> , Fundació La Caixa<br>Granted for 24 months of fully covered graduate studies in the U.S. (aprox. \$120,000). | 2007 - 2009          |
| <b>Full-tuition Scholarship</b> , ZLOG<br>Centro Nacional de Competencia en Logística Integral (18000 euros)                                       | 2007                 |
| <b>Erasmus Scholarship</b> , Université Pierre et Marie Curie (Paris)<br>Last year courses of Bachelor in Mathematics                              | Sep 2005 - June 2006 |

## RESEARCH AWARDS

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| <b>Best Paper IISE Transactions Scheduling and Logistics Focus, honorable mention</b><br>Selected from all papers published in IISE Transactions from July 1, 2018 through June 30, 2019 | 2020 |
| <b>Wickham Skinner Best Paper Award, winner</b><br>Best paper published at POM journal in 2017 (\$1,000)   | 2018 |
| <b>SOLA-Air Products Bi-Annual Dissertation Award, winner</b><br>INFORMS, Section on Location Analysis (\$1,000)   | 2014 |
| <b>John and Mary Willis Young Faculty Scholar Award</b><br>Krannert School of Management, Purdue University (\$10,000).  | 2014 |
| <b>Katta G. Murty Best Paper Prize</b> , U.C. Berkeley<br>Awarded by IEOR faculty to the best student paper in optimization.   | 2010 |
| <b>ZLOG Best Thesis Award and PILOT Award for the Best Thesis</b><br>Zaragoza Logistics Center (6000 euros)  | 2007 |

## TEACHING AWARDS

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| <b>Teaching award</b> , Department of Business Administration, UC3M<br>- Received the highest teaching score of all full-time professors of the department   | 2020-2021 |
| <b>Master's Outstanding and Distinguished Teacher</b> , Krannert, Purdue University<br>MGMT660 Introduction to OM (2015, 2016, 2017, 2018, 2019, 2020)<br>MGMT664 Supply Chain Management (2015, 2016, 2017, 2018, 2019, 2020)<br>MGMT690 Sustainable and Socially Responsible Operations (2013, 2014, 2015, 2016, 2017)<br>MGMT361 Operations Management (2013) |           |

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| <b>Outstanding Graduate Student Instructor Award</b> , U.C. Berkeley<br>Awarded by U.C. Berkeley's Teaching Center, less than 5% teacher assistants receive it. | 2010 |
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## SERVICE AWARDS

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| <b>2018 M&amp;SOM Meritorious Service Award</b> | 2018 |
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## EDITORIAL SERVICE

**Senior Editor**, POM Journal (2020-Present)

**Editorial Review Board**, Decision Science Journal (2020-Present)

**Editorial Review Board**, POM Journal (2015-2020)

**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, International Journal of Production Research, Journal of the Operational Research Society, A Quarterly Journal of Operations Research, California Management Review.

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

## SERVICE AND AFFILIATIONS

### Professional Leadership positions

VP Europe, POMS Board, 2022-24

President-elect, Public Sector Operations Research Section, INFORMS, 2021-22

Chair, The Emerging Economies Doctoral Student Award (EEDSA), POMS, 2021-22

Track chair, POMS Conference 2022, Not-for-Profit OM track, Orlando, FL 2022

Scientific panel, Project Stanley (logistics & marketplace optimization of PPE), 2020

VP Communications, POMS College of Humanitarian Operations and Crisis Management (2020-2022)

Cluster Chair, INFORMS Annual Meeting 2021, MSOM Sustainable Operations, Anaheim, CA

Cluster Chair, INFORMS Annual Meeting 2020, Globalization and Borders track, National Harbor

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

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

Track Chair, 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

### Judge

INFORMS Prize for Teaching OR/MS Practice, Committee member, 2022-2023

Zaragoza Logistics Center, ZLOG/ZLOGb Research Fest Competition, 2021

INFORMS SOLA Society, Chuck ReVelle Rising Star Award Committee, 2021

POMS Humanitarian Operations and Crisis Management College, Paper competition, 2021, 2022

MSOM Sustainable Operations SIG, 2020, 2021  
 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

### **Universidad Carlos III de Madrid Service**

MBA Academic Committee, faculty representative (2021-Present)

### **Purdue University Service**

Architectural and Landscape Design and Planning Committee, Purdue (2017-2020)  
 Innovation Research/Teaching Committee, Krannert, Purdue (Fall 2018-Spring 2020)  
 Specialized Masters Program Faculty Committee, Krannert, Purdue (Fall 2017)  
 STAR (Supplement for teaching and research) Committee, Krannert, Purdue (Fall 2016)  
 Faculty student mentoring lunch, Krannert, Purdue (Fall 2017, Fall 2018)  
 Krannert PRF Doctoral grants reviewer, 2019

### **PhD Dissertation Advisor**

Lei Li (Ph.D student, Krannert, Purdue, 2018-2020)

### **PhD Dissertation Committee Member**

Tania Barreto (Transportation, Purdue, Ph.D. 2021)  
 Zhaoyu Kou (IE Department, Purdue, Ph.D. 2020)  
 Yue Gu (Aviation Technology, Purdue, Ph.D. 2019)  
 Brian Bourquard (Agricultural Economics, Purdue, Ph.D. 2018)  
 Lukas Rudari (Aviation Technology, Purdue, Ph.D. 2017)  
 Heejong Lim (Operations Management, Krannert, Purdue, Ph.D. 2016)  
 Chong H. Park (Quantitative Methods, Krannert, Purdue, Ph.D. 2016)  
 Aditya Vendantam (Operations Management, Krannert, Purdue, Ph.D. 2015)

### **Advisor to PhD visiting students**

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

### **Master Dissertation Committee Member**

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

**Professional member**, INFORMS, MSOM, POMS.

### **Faculty advisor**

Net Impact, Krannert Graduate Chapter, Purdue University (2014-2020)  
 Krannert Hispanic Management Association, Krannert, Purdue University (2014-2019)  
 Undergraduate Soybean competition, Purdue University (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, Aditio, Center for Global Development, Dow Chemical Company, EALgreen, Noble of Indiana, Procter & Gamble, Sichuan Changhong Electric Co. Ltd., Solar Household Energy Inc.