

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

Universidad Carlos III de Madrid, Dept. of Business Administration Associate Professor of Management (2023 - Present) Ramón y Cajal Fellow (2021 - Present) Assistant Professor of Management (2020 - 2023)	2020 - Present
Purdue University, Krannert School of Management Assistant Professor, Operations Management (<i>Maternity leave in AY2015-16 and AY2017-18</i>)	2012 - 2020
University of California, Berkeley Graduate Student Researcher and Instructor	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

Peer-Reviewed Journal Articles

1. Zhang, Y., Berenguer G., and Zhang, Z. (2024) The case of a subsidized reverse supply chain in the Chinese electronics industry, *Omega* vol. 122 102937.
2. Berenguer, G., Costas, N., and Saez de Tejada Cuenca, A. (2023) The state of supplier diversity initiatives for large corporations: the new sustainable supply chain?, accepted, *Production and Operations Management*.
3. Berenguer, G., Haskell, W., and Li, L. (2023) Managing volunteers and paid workers in a non-profit operation, published online in Articles in Advance, *Management Science*.
4. Park, C.H. and Berenguer, G. (2020). Supply constrained location-distribution in not-for-profit settings. *Production and Operations Management*, vol. 29 (11), 2461-2483.
5. Berenguer, G., and Shen, Z.J.M. (2020). Challenges and Strategies in Managing Nonprofit Operations: an Operations Management Perspective. *Manufacturing & Service Operations Management*, vol. 22 (5), 888-905.
6. Atal, N. Berenguer, G., and Borwankar, S. (2019). Gender diversity issues in the IT industry: How can your sourcing group help?. *Business Horizons*, vol. 62 (5), 595-602.
7. Zhang, Z., Berenguer, G., and Pan, X (2019). Location, inventory and testing decisions in closed-loop supply chains: a multimedia company. *IIE Transactions*, vol. 51 (1), 41-56.
- *Honorable Mention, Best Paper 2019 IIE Transactions Scheduling and Logistics Focus*
8. Berenguer, G., Feng, Q., Shanthikumar, J.G., and Xu, L. (2017). The Effects of Subsidies on Increasing Consumption through For-Profit and Not-for-Profit Newsvendors. *Production and Operations Management*, vol. 26 (6), 1191-1206.
- *Winner of Wickham Skinner Best Paper Award 2018 (best paper published at POM in 2017)*
9. Berenguer, G., Keskinocak, P., Shanthikumar, J.G., Swaminathan, J., and Van Wassenhove, L.N. (2017). A Prologue to the Special Issue on Not-for-Profit Operations Management. *Production and Operations Management*, 26 (6) 973-975.
10. Berenguer, G., Iyer, A., and Yadav, P. (2016). Disentangling the efficiency drivers in country-level global health programs: an empirical study. *Journal of Operations Management*, vol. 45 30-43.
11. Zhang, Z., Berenguer, G. and Shen Z.J.M. (2015). A Capacitated Facility Location Model with Bidirectional Flows. *Transportation Science*, vol. 49 (1), 114-129.
12. Atamturk, A., Berenguer, G. and Shen Z.J.M. (2012). A Conic Integer Programming Approach to Location-Inventory Problems. *Operations Research*, vol. 60 (2), 366-38.

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, Nezh, 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).

Book

1. “Nonprofit Operations and Supply Chain Management: Theory and Practice”, co-editing with Milind Sohoni. Springer Series in Supply Chain Management, publication expected September-October 2024.

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. “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-An Open Access Journal*, 10(1), p. 294-320.
2. “Public Sector OM Research”, 2020, *POMS Chronicle*, 27(1) p. 10-11.
3. “Benchmarking Supply Chains for Better Performance”, with Ananth Iyer, Prashant Yadav and Amanda Glassman, 2015, *Center for Global Development*, Policy Paper 057.
4. “Nonprofit Operations”, 2014, *POMS Chronicle*, 21(1) p. 12-10.

Working Papers

- “A systematic review of OR/MS modelling techniques in the study of higher education institutions”, with Mohammad Moshtari, submitted.
- “Performance of online heuristics for dynamic resource allocation problems”, with Lei Li and Will Haskell, submitted.

- “Charitable crowdfunding: the focused charity evaluators model”, with Dashi Singham, in preparation.
- “Scheduling and Planning High Uncertainty Seasonal Products at Dow”, with Kyle Harshbarger and Joe Czyzyk, in preparation.

TEACHING EXPERIENCE

Department of Business Administration, Universidad Carlos III 2020 - Present

- Supply Chain Management, MBA elective course (2022 - Present)
- 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”

- INSEAD (April 2024)
- Worcester Polytechnic Institute (December 2023) - virtual seminar
- 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)

Panelist and Moderator of panel discussions

- Panelist, panel discussion “A Dialog on DEI Research with Editors”, POMS Annual Conference 2024, Minneapolis
- Moderator, panel discussion “How OR Scholars Successfully Collaborate with Public Institutions?”, panel discussion, INFORMS Annual meeting 2023, Phoenix
- Panelist, panel discussion “DEI and Scholarly Publications”, INFORMS DEI Committee, webinar, August 2023
- Panelist, panel discussion “ UN SDGs”, POMS International conference, Paris, 2023
- 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
- Panelist and moderator, “Nonprofit Operations” Tutorial, POMS Annual Meeting 2014, Atlanta

Conference Presentations

POMS International Conference 2023 Paris
 POMS Annual Meeting 2023 Orlando
 INFORMS Annual Meeting 2022 Indianapolis
 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
 Sustainable Operations Management Workshop for Early-Career Faculty, 2016, Raleigh
 INFORMS Annual Meeting 2014 San Francisco
 POMS Annual Meeting 2014 Atlanta
 Utah Winter Operations Conference, 2014, Snowbird
 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

Knowledge Generation Project, sole PI	2022-2024
Spanish Ministry of Science and Innovation (25,410 EUR)	
Ramón y Cajal Fellowship, sole PI	2021-2025
Research excellence grant and faculty contract, Spanish Ministry of Science and Innovation (42,000 EUR grant portion)	
CORE 7FP European Commission grant	May 2017- May 2018
Grant for R&D research with Procter & Gamble, BCP section (\$50,000)	
Adani Port Operations grant, co-PI	2016
Grant for research, Adani Group (\$3,500)	
Center for Global Development grant, co-PI	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).	
MOT-China Fellow, U.C. Berkeley	2008
Granted for building knowledge and learning about Chinese business customs (approx. \$3,000).	
La Caixa Graduate Fellowship, Fundació La Caixa	2007 - 2009
Granted for 24 months of fully covered graduate studies in the U.S. (approx. \$120,000).	
Full-tuition Scholarship, ZLOG	2007
Centro Nacional de Competencia en Logística Integral (18000 EUR)	
Erasmus Scholarship, Université Pierre et Marie Curie (Paris)	Sep 2005 - June 2006
Last year courses of Bachelor in Mathematics	

RESEARCH AWARDS

Best Paper IISE Transactions Scheduling and Logistics Focus, honorable mention	2020
Selected from all papers published in IISE Transactions from July 1, 2018 through June 30, 2019	
Wickham Skinner Best Paper Award, winner	2018
Best paper published at POM journal in 2017 (\$1,000)	
SOLA-Air Products Bi-Annual Dissertation Award, winner	2014
INFORMS, Section on Location Analysis (\$1,000)	

John and Mary Willis Young Faculty Scholar Award Krannert School of Management, Purdue University (\$10,000).	2014
Katta G. Murty Best Paper Prize , U.C. Berkeley Awarded by IEOR faculty to the best student paper in optimization.	2010
ZLOG Best Master Thesis Award and PILOT Award for the Best Thesis Zaragoza Logistics Center (6000 EUR)	2007

TEACHING AWARDS

Teaching recognitions, UC3M

- Teaching Excellence Acknowledgement letter, UC3M	2020, 2021, 2022, 2023
- Teaching Excellence Award, Department of Business Administration received the highest teaching score of all full-time professors of the department	2020-2021

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

MGMT660 Introduction to OM (2015, 2016, 2017, 2018, 2019, 2020)
 MGMT664 Supply Chain Management (2015, 2016, 2017, 2018, 2019, 2020)
 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
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EDITORIAL AND REVIEWER SERVICE

Associate Editor, Operations Research Journal (2024-Present)

Senior Editor, Production and Operations Management Journal (2020-Present)

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

Editorial Review Board, Production and Operations Management Journal (2015-2020)

Guest Senior Editor, Production and Operations Management Journal (2018)

Guest Editor, Production and Operations Management 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), United States (2020)

Grant Reviewer, Agencia Estatal de Investigación (AEI), Spain (2022-Present)

External PhD dissertation evaluator University of Pretoria (2023), Tel Aviv University (2019)

Conference Reviewer MSOM Conference (2023), MSOM Sustainable Operations SIG (2020, 2021, 2024)

PROFESSIONAL AND UNIVERSITY SERVICE

Professional Leadership positions

Vice-President Europe, POMS Board, 2022-24

Past President, Public Sector Operations Research Section, INFORMS, 2024

President, Public Sector Operations Research Section, INFORMS, 2023

President-Elect, Public Sector Operations Research Section, INFORMS, 2022

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

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

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

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

Conference Organization

Chair, EURO Hope Mini-conference, Madrid, October 2024

Advisory Committee, POMS India International Conference, December 2023

Steering Committee, POMS International Conference, Paris, July 2023

Advisory Committee, POMS India International Conference, December 2022

Steering Committee, POMS International Conference Budapest, June 2022

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

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

Session Chair

POMS Conference 2024 Minneapolis

INFORMS 2023 Phoenix

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, 2022-2024

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

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

POMS HOCM College, Paper competition, 2021, 2022, 2023, 2024
 INFORMS Doing Good with Good OR, Student Paper Competition Committee (2016-19)
 – Co-chair of the competition (2018)
 POMS Sustainability College, Student paper competition, 2018, 2019, 2023
 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

Academic Secretary, Department of Business Administration (2023-Present)
 MBA Academic Committee, faculty representative (2021-Present)
 Advisor for undergraduate theses (TFG), 2 theses (2021-Present)
 PhD Follow-up Committee, 1 dissertation (2020-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

ADVISING TO STUDENTS

PhD Dissertation Advisor

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

Master Thesis Advisor

Susana Santos (Department of Business Administration, UC3M, 2024)

Advisor to visiting PhD 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)

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)

Master Dissertation Committee Member

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

Undergraduate Thesis Advisor

2 undergraduate thesis advised (2021, 2022)

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)

Professional member, INFORMS, MSOM, POMS.

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.