

# Gemma Berenguer

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**POSITION**      **Assistant Professor, Purdue University**      2012 - Present  
Operations Management, Krannert School of Management

**EDUCATION**      **University of California, Berkeley**      2007 - 2012  
Ph.D. in Industrial Engineering & Operations Research

**Massachusetts Institute of Technology - Zaragoza Logistics Center**      2007  
M.Eng. in Logistics and Supply Chain Management (ZLOG)

**Barcelona Graduate School of Economics (Spain)**      2006  
M.Sc. in Economics

**Universitat Politècnica de Catalunya, Barcelona (Spain)**      2005  
Mathematics (Llicenciatura, 5-year Degree)

**EMPLOYMENT**      **Graduate Student Researcher & Instructor, U.C. Berkeley**      2009 - 2012  
Courses at IEOR Department and Haas School of Business

**Student Researcher, Lawrence Berkeley National Labs**      Sep 2009 - June 2010  
Energy Efficiency Standards Group

**Analyst, BTI Group**      June 2008 - August 2008  
Mergers and Acquisitions

**RESEARCH & TEACHING INTERESTS**      Operations Management, Supply Chain Management, Sustainable and Socially Responsible Operations, Nonprofit Supply Chains, Supply Chain Design Problems, Optimization.

## **PUBLICATIONS** Journal Articles

- “The Effects of Subsidies on Increasing Consumption through For-Profit and Not-for-Profit Newsvendors”, with Annabelle Feng, George Shanthikumar, and Lei Xu *Production and Operations Management*, forthcoming.
- “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.
- “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.
- “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

- “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).
- “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).

### Other Publications

- “Benchmarking Supply Chains for Better Performance”, with Ananth Iyer, Prashant Yadav and Amanda Glassman, 2015, *Center for Global Development*, Policy Paper 057.
- “Nonprofit Operations”, 2014, *POMS Chronicle*, 12(1) p. 12-10.

### Working Papers

- “Challenges and Strategies in Managing Nonprofit Operations: an Operations Management perspective”, with Zuo-Jun (Max) Shen, major revision
- “Location, inventory and testing decisions in closed-loop supply chains: a multimedia company”, with Zhi-Hai Zhang and Xiaoyong Pan, submitted
- “The alternating direction method of multipliers for the capacitated facility location problem”, with Ying Cao and Borja Peleato, submitted
- “Public resource location and distribution problems: a fractional programming approach”, with Chong H. Park

### Work in Progress

- Product Flows analysis of a Global Health Supply Chain
- The impact of donor coordination to downstream recipients
- Raw material variability in food manufacturing and supply chains

### TEACHING EXPERIENCE

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|---|----------------|
| <b>Krannert School of Management, Purdue University</b>   | 2012 - Present |
| <ul style="list-style-type: none"> <li>• Introduction to Operations Management, MBA core course (2015-Present)</li> <li>• Sustainable (and Socially Responsible) Operations, MBA elective (2013-Present)</li> <li>• Supply Chain Management, MBA elective (2014-Present)</li> <li>• Optimization and Supply Chain Design, PhD course (2014)</li> <li>• Operations Management, undergraduate core course (2013)</li> </ul> |                |
| <b>Leavey School of Business, Santa Clara University</b>  | 2010 - 2011    |
| <ul style="list-style-type: none"> <li>• Operations Management, undergraduate core course</li> </ul>  |                |

**TALKS****Research Seminars**

“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**

Speaker, Environmentally Sustainable Supply Chain Management Workshop for Early-Career Faculty, 2016, Raleigh

Panelist, “Nonprofit Operations” Tutorial, POMS Annual Meeting 2014, Atlanta

Speaker, Utah Winter Operations Conference, 2014, Snowbird

**Conference Presentations**

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/  
AWARDS****Adani Port Operations**

Grant for research

2016

**SOLA-Air Products Bi-Annual Dissertation Award, first place**

INFORMS, Section on Location Analysis

2014

**John and Mary Willis Young Faculty Scholar Award**

Krannert School of Management, Purdue University

2014

**Center for Global Development, Washington D.C.**

Grant for research

2013

**The Doug and Maria DeVos Faculty Summer Support Award in Global Supply Chain Management**

Krannert School of Management, Purdue University

2012

- 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
- 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**, Centro Nacional de Competencia en Logística Integral 2007
- 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)  
MGMT690 Sustainable (and Socially Responsible) Operations (2013, 2014, 2015, 2016)  
MGMT664 Supply Chain Management (2015, 2016)  
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.

#### EDITORIAL SERVICE

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

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

**Referee**, Management Science, MSOM, Production and Operations Management, European Journal of Operational Research, Journal of Operations Management, Decision Sciences, Mathematical Methods of Operational Research, Omega, OR Spectrum, Production Planning and Control.

#### SERVICE/ AFFILIATIONS

**Track Chair**, POMS Conference 2015 Washington D.C.

##### Session Chair

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 Doing Good with Good OR, Student Paper Competition Committee (2016-18)  
POM Supply Chain College, Student Paper Competition, 2016  
INFORMS Public Sector OR Section Best Paper Award, 2015  
Krannert Graduate Student Association Case Competition 2014, 2015

**Dissertation Committee** Brian Bourquard (Ph.D. 2018), Lukas Rudari (Ph.D. 2017), Heejong Lim (Ph.D. 2016), Chong H. Park (Ph.D. 2016), Aditya Vendantam (Ph.D. 2015)

**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)