

Jiaru Bai

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ACADEMIC POSITIONS

AUG 2017-PRESENT	Assistant Professor of Business Analytics and Operations School of Management Binghamton University, State University of New York
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EDUCATION BACKGROUND

JUNE 2017	Ph.D., Paul Merage School of Business, University of California, Irvine Major: Operations and Decision Technologies Thesis Title: Interdisciplinary Research in Operations Management: Applications in Healthcare, Retailing and On-demand Service Platforms Thesis Co-chairs: Robin Keller, Shuya Yin Committee Members: Kut C. So, Luyi Gui, Zhaoxia Yu
DEC 2014	M.S., Statistics, University of California, Irvine
JUNE 2012	B.S., Economics, Peking University B.S., Engineering, Honors College, Beihang University Minor in Mathematics, Beihang University

RESEARCH INTERESTS

- Service Operations Management
- Channel Coordination
- Operations Management & Marketing Interfaces
- Behavioral Operations Management
- Medical Decision Analysis

WORKING PAPERS

Coordinating Supply and Demand on an On-demand Service Platform with Impatient Customers. Joint with Kut C. So, Christopher Tang, Xiqun (Michael) Chen and Hai Wang. (Minor Revision at **M&SOM**)

Retail Distribution Strategy with Outlet Stores. Joint with Shuya Yin and Haresh Gurnani. (Revise and Resubmit at **Journal of Retailing**)

Modeling insights for Healthcare Cost-effectiveness Analysis. Joint with Cristina del Campo, Robin Keller.

Challenges in Modelling Time Dependent Transitions in Cost-effectiveness Analysis. Joint with Cristina del Campo, Robin Keller.

Evaluating the cost-effectiveness of current FDA-approved PARP inhibitors for the treatment of recurrent ovarian cancer. Joint with Robin Keller.

PUBLICATIONS

Bai J, So K C, Tang C. A Queueing Model for Managing Small Projects under Uncertainties. **European Journal of Operational Research**, 2016, 253(3): 777-790.

Wolford JE, Bai J, Eskander RH, Keller R, Minion LE, Chan JK, et al. Abstract: Evaluating the cost-effectiveness of current FDA-approved PARP inhibitors for the treatment of recurrent ovarian cancer. **Journal of Clinical Oncology** 35, no. 15_suppl (May 2017) 5516-5516.

Minion LE, Bai J, Monk BJ, et al. A Markov model to evaluate cost-effectiveness of antiangiogenesis therapy using bevacizumab in advanced cervical cancer. **Gynecologic Oncology**, 2015, 137(3): 490-496.

Bai J, Campo CD and Keller RL. Markov Chain Models in Practice: A Review of Low Cost Software Options. **Investigacion Operacional**, 38.1 (2017): 56-63.

Qian L, Lu Q, Bai J, et al. Dynamics of a Prey-Dependent Digestive Model with State-Dependent Impulsive Control. **International Journal of Bifurcation and Chaos**, 2012, 22(04): 1250092.

TEACHING INTERESTS

Operations Management	Business Statistics	Healthcare Operations Management
Supply Chain Management	Business Analytics	Management Science

TEACHING EXPERIENCE

Instructor COURSE TITLE:	School of Management Supply Chain Management	Binghamton University, SUNY Undergraduate & MBA
Instructor COURSE TITLE:	Paul Merage School of Business MGMT 7 Business Statistics	UC Irvine Undergraduate
Teaching Assistant COURSE TITLES:	Paul Merage School of Business Management Science Statistics Decision Analysis Operations Management Supply Chain Management	UC Irvine Healthcare Executive MBA Fully Employed MBA, Full-time MBA Fully Employed MBA Full-time MBA, Undergraduate Full-time MBA

AWARDS AND HONORS

2017	First Prize, Supply Chain Management College Student Paper Competition, POMS
2012-2016	Doctoral Student Fellowship, UC Irvine
2016	Ray Watson Fellowship, UC Irvine
2015	AGS Travel Grant, UC Irvine
2011	Finalist (group leader), 2011 The Mathematical Contest in Modeling (top 1%)
2010	Guanghua scholarship, Beihang University (top 1%)
2008	Special prize for freshman, Beihang University (top 1%)

PRESENTATIONS

Coordinating Supply and Demand on an On-demand Service Platform with Impatient Customers (with Kut C. So & Chris Tang)

2016	INFORMS Annual Meeting	Nashville, TN
2016	California State University, Northridge	Northridge, CA
2017	Renmin University	Beijing, China
2017	University of Houston, Clear Lake	Houston, TX
2017	Northeastern Illinois University	Chicago, IL
2017	IE Business School	Madrid, Spain
2017	Sungkyunkwan University	Seoul, Korea
2017	The University of Auckland	Auckland, New Zealand
2017	Binghamton University, SUNY	Binghamton, NY
2017	San Jose State University	San Jose, CA
2017	POMS Annual Conference	Seattle, WA
2017	Poster Presentation at Marketplace Innovation Workshop	Stanford, CA
2017	Biennial Information Intensive Workshop	Syracuse, NY

Why and Where to Have Outlet Stores? (with Shuya Yin)

2015	INFORMS Annual Meeting	Philadelphia, PA
2016	Southern California OR/OM Mini Conference	Irvine, CA
2016	CSAMSE Annual International Conference	Hefei, China
2016	INFORMS Annual Meeting	Nashville, TN
2017	POMS Annual Conference	Seattle, WA

Markov Cost-Effectiveness Analysis For Cancer Treatment (with Robin Keller)

2014	INFORMS Annual Meeting	San Francisco, CA
2014	Invited Guest Speaker in UCI Merage Decision Theory Class	Irvine, CA
2014	Invited Guest Speaker in UCI Merage Management Science Class	Irvine, CA
2015	INFORMS Healthcare Conference	Nashville, TN
2015	INFORMS Annual Meeting	Philadelphia, PA
2015	Invited Guest Speaker in UCI Merage Management Science Class	Irvine, CA
2016	INFORMS International Meeting	Waikoloa, HI
2016	INFORMS Annual Meeting	Nashville, TN
2017	INFORMS Computing Society conference	Austin, TX
2017	Invited Guest Speaker in UCI Merage Decision Theory Class	Irvine, CA

A Queueing Model Arising from Managing Small Projects under Uncertainties

2015	Poster Presentation at UCI Merage for the Annual Research Festival	Irvine, CA
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ACADEMIC AND SOCIAL ACTIVITIES

2016	Associated Certified Analytics Professional (aCAP)
SESSION CHAIR	2017 INFORMS Computing Society's Annual Meeting, 2017 POMS
MEMBER	INFORMS, MSOM, POMS, Decision Analysis Society
2013-2014	Students' Representative on PhD Committee, Paul Merage School of Business

PROGRAMMING

R, Python, AMPL, MATLAB, Lingo, Minitab, TreeAge Pro, C