

# Jiaru Bai

School of Management  
Binghamton University  
Binghamton, NY 13902, USA

PHONE: (607)777-6067  
EMAIL: jbai AT binghamton.edu  
WEBSITE: <http://www.jiarubai.net>

## ACADEMIC POSITIONS

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

## EDUCATION BACKGROUND

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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, Beijing University  
B.S., Engineering, Honors College, Beihang University  
Minor in Mathematics, Beihang University

## RESEARCH INTERESTS

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- Supply Chain Management
- Service Operations Management
- Operations Management & Marketing Interfaces
- Behavioral Operations Management
- Healthcare Analytics

## PUBLICATIONS

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Bai, J, So KC, Tang C, Chen X, Wang H. Coordinating Supply and Demand on an On-demand Service Platform with Impatient Customers. **Manufacturing & Service Operations Management**, 2017 (Forthcoming).

Bai J, So KC, 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, et al. Abstract: Evaluating the cost-effectiveness of current FDA-approved PARP inhibitors for the treatment of recurrent ovarian cancer. **Journal of Clinical Oncology**, 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**, 2017, 38(1):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.

## BOOK CHAPTER

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Time-Based Payout Ratio for Coordinating Supply and Demand on an On-demand Service Platform, Jiaru Bai, Kut C. So, Christopher Tang, Xiquan (Michael) Chen and Hai Wang, 2018, **Sharing Economy: Making Supply Meet Demand**, M. Hu (Ed.), in **Springer Series in Supply Chain Management**, C. Tang (Series Ed.).

## TEACHING INTERESTS

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

## TEACHING EXPERIENCE

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<b>Instructor</b> COURSE TITLE:	School of Management Supply Chain Management Decision Models & Risk Analysis	Binghamton University, SUNY Undergraduate & MBA Undergraduate & MBA
<b>Instructor</b> COURSE TITLE:	Paul Merage School of Business MGMT 7 Business Statistics	UC Irvine Undergraduate
<b>Teaching Assistant</b> 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

## MEDIA COVERAGE

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**UCLA Anderson Review:** Uber-Like Services: Variable Driver-Company Revenue Split Improves Profit.

**Cancer Network:** PARP Inhibitors Effective but Costly for Recurrent Ovarian Cancer.

## AWARDS AND HONORS

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2017 Dean's Honor Roll for Excellence in Teaching, Binghamton University, SUNY  
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

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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
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

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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

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