

# Ruixia (Sandy) Shi

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## ACADEMIC EXPERIENCE

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Associate Professor	Jul. 2016 - Present
Department of Supply Chain Management, University of San Diego	
Assistant Professor	Aug. 2014 – Jul. 2016
Department of Management, California State University Fullerton	
Assistant Professor	Aug. 2009 – Aug. 2014
Department of Management, University of Richmond	

## EDUCATION

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Ph.D. in Operations Management	Aug. 2009
Jindal School of Management, The University of Texas at Dallas, Richardson, TX	
M.S. in Supply Chain Management	Aug. 2007
Jindal School of Management, The University of Texas at Dallas, Richardson, TX	
B.E. in Industrial Management Engineering	Jul. 1999
Aetna School of Management, Shanghai Jiao Tong University, Shanghai, China	

## RESEARCH INTERESTS

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Sustainable supply chain	Operations-marketing interface	Business analytics
Partially observed inventory	Service operations	

## PUBLICATIONS

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1. Shi, R., H. Chen, and S. Sethi (2018). A Generalized Count Model on Customers' Purchases in O2O Market. *International Journal of Production Economics*, forthcoming.
2. Ru, J., R. Shi, and J. Zhang (2018). When Does a Supply Chain Member Benefit from Vendor Managed Inventory? *Production and Operations Management* 27(5), pp.807-821. (Equal contribution, authors are listed alphabetically).
3. Luo, S., S. Sethi, and R. Shi (2016). On the Optimality Conditions of a Price-Setting Newsvendor Problem, *Operations Research Letters*, 44(6), pp.697-701. (Equal contribution, authors are listed alphabetically).
4. Zhang, J., X. Song, H. Chen, and R. Shi (2016). Determination of critical chain project buffer based on information flow interactions, *Journal of the Operations Research Society*, 67(9), pp.1146-1157.
5. Ru, J., R. Shi, and J. Zhang (2015). Does a store brand always hurt the manufacturer of a competing national brand? *Production and Operations Management*, 24(2), pp. 272-286. (Equal contribution, authors are listed alphabetically).

6. Zhang, J., X. Song, H. Chen, and R. Shi (2015). Optimisation of critical chain sequencing based on activities' information flow interactions? *International Journal of Production Research*, 53(20), pp. 6231-6241.
7. Zhang, J., R. Shi, and E. Diaz (2015). Dynamic monitoring and control of software project effort based on an effort buffer? *Journal of the Operations Research Society*, 66(9), pp. 1555-1565.
8. Liang, C., S. Sethi, R. Shi, and J. Zhang (2014). Inventory sharing with transshipment: Impacts of demand distribution shapes and setup costs, *Production and Operations Management*, 23(10), pp. 1779-1794. (Equal contribution, authors are listed alphabetically).
9. Shi, R., J. Zhang, and J. Ru (2013). Impacts of power structure on supply chains with uncertain demand, *Production and Operations Management*, 22(5), pp. 1232-1249.
10. Feng, Q., R. Shi (2012). Sourcing from multiple suppliers for price-dependent demands, *Production and Operations Management*, 21(3), pp. 547-563. (Equal contribution, authors are listed alphabetically).
11. Bensoussan, A., M. Cakanyildirim, S. Sethi, and R. Shi (2011). Computation of approximate optimal policies in partially observed inventory model with rain checks, *Automatica*, 47(8), pp.1589-1604. (Equal contribution, authors are listed alphabetically).
12. Bensoussan, A., M. Cakanyildirim, J. A. Minjarez-Sosa, S. Sethi, and R. Shi (2010). An incomplete information inventory model with presence of inventories or backorders as only observations, *Journal of Optimization Theory and Applications*, 146(3), pp. 544-580. (Equal contribution, authors are listed alphabetically).
13. Bensoussan, A., M. Cakanyildirim, J. A. Minjarez-Sosa, S. Sethi, and R. Shi (2008). Partially observed inventory systems: the case of rain checks, *SIAM Journal on Control and Optimization*, 47(5), pp. 2490-2519. (Equal contribution, authors are listed alphabetically).

## REFEREED PROCEEDINGS

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1. Ru, J, R. Shi, and A Chang (2015). Are store brand more attractive to powerful retailers? *Proceedings of West Decision Science Conference*, April 2015.
2. Chen, H, R. Shi, and S. Sethi (2015). A generalized count model on repeat purchasing, *Proceedings of West Decision Science Conference*, April 2015.
3. Sethi, S., R. Shi (2013). Managing with Incomplete Inventory Information (i3), *Proceedings of the IFAC Conference on Manufacturing Modeling, Management and Control*, June 2013.

## PRESENTATIONS

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1. "When does a supply chain member benefit from vendor managed inventory", INFORMS 2017, Houston, TX, Oct. 2017.
2. "Integrated risk management in the airline industry" INFORMS 2017, Houston, TX, Oct. 2017.
3. "Competition and Efficiency in express service industry", INFORMS 2016, Nashville, TN, Nov. 2016.
4. "A generalized model on forecasting repeat sales", POMS 2016, Orland, FL, May 2016.
5. "A Two Product Newsvendor Problem with Partial Demand Substitution" INFORMS 2015, Philadelphia,

- PA, Nov. 2015.
6. “Supply chain power and store brand”, POMS 2015, Washington D.C., May 2015.
  7. “Are store brand more attractive to powerful retailers?” WDSI Annual meeting 2015, Maui, HI, Apr. 2015.
  8. “A generalized count model on repeat-purchasing”, WDSI Annual meeting 2015, Maui, HI, Apr. 2015
  9. “Does a store brand always hurt the manufacturer of a competing national brand?” INFORMS 2013, Minneapolis, MN, Oct. 2013.
  10. “Store band and channel power”, INFORMS 2012, Phoenix, AZ, Oct. 2012.
  11. “Store band and channel power”, POMS conference, Chicago, IL, Apr. 2012.
  12. “Sourcing from multiple suppliers for price-dependent demand”, The 2012 ISOM workshop on Challenges and Opportunities in Management IT Enabled Multichannel Operations, University of Florida, Gainesville, FL, Feb. 2012.
  13. “Retailer-vs.-vendor-managed inventory and customers’ store loyalty -dependent demands”, INFORMS 2011, Charlotte, NC, Oct. 2011.
  14. “Sourcing from multiple unreliable suppliers for price-dependent demands”, INFORMS 2009, San Diego, CA, Oct. 2009. *Invited talk.*
  15. “Impacts of transshipments on retailers”, INFORMS 2009, San Diego, CA, Oct. 2009. *Invited talk.*
  16. “Replenishment policies with incomplete inventory information”, INFORMS 2008, Washington DC, Nov. 2008.
  17. “Supply chain power structure and supply chain efficiency”, POMS Conference, San Diego, CA, May 2008.
  18. “Supply chain power structure and supply chain efficiency”, INFORMS 2007, Seattle, WA, Nov. 2007. *Invited talk.*
  19. “Partially observed inventory system: the case of rain check”, POMS Conference, Dallas, TX, May 2007.
  20. “Partially observed inventory system with backlog”, INFORMS 2006, Pittsburg, PA, Nov. 2006.

## TEACHING EXPERIENCE

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### University of San Diego

Operations Management (DSCI 303): undergraduate core

### California State University, Fullerton

Managing Operations (MGMT 339): undergraduate core

Project Management (MGMT 444): undergraduate elective

### University of Richmond

Operations Management (MGMT 340): undergraduate core

Operations Management (MBA 540): MBA core

### University of Texas at Dallas

Production Management (BA 3352): undergraduate core

## ACADEMIC MEMBERSHIP AND SERVICE

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- **Track Chair**
  - DSI 2018 Conference, Chicago, Illinois, November, 2018
  - POMS 2018 Conference, Houston, TX, May, 2018
  - POMS 2011 Conference, Reno, NV, May, 2011
- **Session Chair**
  - INFORMS 2015, Philadelphia, PA, November, 2015
  - POMS conference Chicago, IL, April, 2012
  - INFORMS Annual Conference, Seattle, WA, November, 2007
- **Guest Senior Editor**
  - Production and Operations Management
- **Editorial Review Board**
  - Production and Operations Management
- **Ad-hoc Reviewer for**
  - Information Systems Research
  - Manufacturing & Service Operations Management
  - Production and Operations Management
  - European Journal of Operations Research
  - International Journal of Production Economics
  - International Journal of Production Research
  - Omega
  - Asia Pacific Journal of Operational Research
- **Membership**
  - INFORMS member
  - DSI member
  - POMS member
- **Service at University of San Diego**
  - Core Curriculum Committee- Alternate
  - MS in Business Analytics Task Force – member
  - USD strategic plan platform – member
- **Service at California State University Fullerton**
  - Operations Management Concentration mentor
  - Management Department Curriculum Committee – member
  - Management Department Policy Committee – member

- Service at University of Richmond

- Culture Affair Committee
- Judicial Pool
- Judge – McWick Case Competition

## HONORS, AWARDS AND GRANTS

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- Honors and awards

- Junior Faculty Scholarship, WDSI conference 2015
- Emerging Scholars Program, POMS Reno Conference 2011
- Outstanding Ph.D. Student Teacher of the Year (UT Dallas) 2008
- Graduate Scholarship (UT Dallas) 2004-2009
- POMS Doctoral Student Consortium, La Jolla 2008
- Purdue CIBER Doctoral Consortium, Purdue 2007

## COMPUTER SKILLS

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- Programming language: Python, Oracle, Tableau, SAS, C, C++, Matlab, Mathematica, Visual Basic