

# Shouqiang (Qiang) Wang

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## Education

Ph.D. in Business Administration, Fuqua School of Business, Duke University, Durham NC	2011
Advisors: Alexandre Belloni, Giuseppe Lopomo. (3.95/4.0)	
M.S. in Statistics, Department of Statistical Sciences, Duke University, Durham NC (4.0/4.0)	2011
B.S. in Mathematics, School of Mathematical Sciences, Peking University, Beijing China	2006
B.A. in Economics, China Center for Economic Research, Peking University, Beijing China	2006
Visiting student, Department of Mathematics, Uppsala University, Uppsala, Sweden	2005

## Employment

Naveen Jindal School of Management, University of Texas at Dallas

Associate Professor (with tenure)	2021 - present
Assistant Professor	2016 - 2021
Assistant Professor, Management Department, College of Business, Clemson University <sup>a</sup>	2011 - 2017
Instructor, Teaching/Research Assistant, Fuqua School of Business, Duke University	2006 - 2011

## Expertise and Interests

**Applications:** Revenue Management (esp. online platforms), Sustainable and Public Sector Operations, Supply Chain Management (esp. OM-Marketing interface)

**Methodologies:** Information Economics (esp. mechanism/information design), Dynamic Program, Stochastic Optimal Control, Optimization, Decision Analysis

## Honors and Awards

Finalist of Owlle Award – Jindal Faculty of the Year (Graduate)	2021
2nd Prize, Jeff McGill Student Paper Award by INFOMRS Revenue Management & Pricing Section (role: advisor & coauthor)	2020
UTD Class of 2019 and 2020 MBA Graduation Faculty Speaker	2019-20
<i>Manufacturing &amp; Service Operations Management</i> Meritorious Service Award	2020

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<sup>a</sup>On leave, 2016 - 2017.

<i>Management Science</i> Meritorious Service Award	2019
Winner of ENRE Best Publication Award for Environment and Sustainability of INFORMS	2018
Best Paper Award, Humanitarian Operations & Crisis Management Track of POM Society	2018
<i>Summer Research Grant</i> (\$15,000), Management Department, Clemson University	2015
<i>Duke University Graduate School Scholarship</i>	2006-11

## Journal Articles<sup>b</sup>

14. Can Küçükgül\*, Özalp Özer, **Shouqiang Wang**. Engineering Social Learning: Information Design of Time-Locked Sales Campaigns for Online Platforms, accepted at *Management Science*.  
2nd Prize, 2020 Jeff McGill Student Paper Award by INFOMRS Revenue Management & Pricing Section
13. Huseyin Gurkan, Francis de Véricourt, **Shouqiang Wang**. 2021. Informing the Public about a Pandemic, *Management Science*, forthcoming.  
Press coverage by ESMT, EurekAlert, World News Monitor
12. Shivam Gupta\*, **Shouqiang Wang**, Milind Dawande, Ganesh Janakiraman. 2021. Procurement with Cost and Non-Cost Attributes: Cost-Sharing Mechanisms, *Operations Research*, forthcoming.  
Selected to present at M&SOM 2018 Conference – SIG Meeting on Supply Chain Management
11. **Shouqiang Wang**, Haresh Gurnani, Upender Subramanian. 2021. The Informational Role of Buy-Back Contracts, *Management Science*, 67(1): 279-296.
10. Saed Alizamir, Francis de Véricourt, **Shouqiang Wang**. 2020. Warning Against Recurring Risks: An Information Design Approach, *Management Science*, 66(10): 4612-4629.  
2018 Best Paper Award, Humanitarian Operations & Crisis Management Track of POM Society  
Press coverage by Yale Insight and Forbes
9. Yen-Ting Lin, Haoying Sun, **Shouqiang Wang**. 2020. Designing Sustainable Products under Co-Production Technology, *Manufacturing & Service Operations Management*, 22(6): 1181-1198.  
Special Issue on Responsible Operations and Supply Chain Management, edited by Vinayak Deshpande and Jayashankar M. Swaminathan  
Selected to present at 3rd Annual Early-Career Sustainable Operations Workshop
8. **Shouqiang Wang**, Gülru Özkan-Seely. 2018. Signaling Product Quality through a Trial Period, *Operations Research*, 66(2): 301-312. (Lead article)  
Note: Entrant's Product Quality Signaling through a Trial Period in a Competitive Market  
Press coverage by Newswise.com
7. Alexandre Belloni, Giuseppe Lopomo, **Shouqiang Wang**. 2017. Resource Allocation under Demand Uncertainty and Private Information, *Management Science*, 63(12): 4219-4235.
6. **Shouqiang Wang**, Peng Sun, Francis de Véricourt. 2016. Inducing Environmental Disclosures: A Dynamic Mechanism Design Approach, *Operations Research*, 64(2): 371-389.

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<sup>b</sup>\* indicates current or former PhD students

Winner of 2018 INFORMS ENRE Best Publication Award for Environment and Sustainability

Selected to present at 2nd Annual Workshop on Sustainable Supply Chain Management

Selected to present at M&SOM 2015 Conference – SIG Meeting on Sustainable Operations

Selected to present at 7th Annual ARCS Research Conference

Press coverage by Duke Fuqua School of Business and Inside JSOM

5. Alexandre Belloni, Giuseppe Lopomo, **Shouqiang Wang**. 2010. Multi-dimensional Mechanism Design: Finite Dimensional Approximations and Efficient Computation, *Operations Research*, 58(4): 1079-1089.

Funded by NSF

4. Qiong Chen\*, Gülru Özkan-Seely, **Shouqiang Wang**, Aleda V. Roth. 2020. Knowledge-Based View of the Use of an Intermediary in New Product Manufacturing Outsourcing, *Decision Sciences*, published online as Early View.
3. **Shouqiang Wang**, David Banks. 2011. Network Routing in Insurgency: An Adversarial Risk Analysis Framework, *Naval Research Logistics*, 58(6): 595-607.
2. David Banks, Francesca Petralia, **Shouqiang Wang**. 2011. Adversarial Risk Analysis: Borel Games, *Applied Stochastic Models in Business and Industry*, 27: 72-86.

Lead article in this special issue followed by Joseph Kadane and Nicholas Polson's discussions and the author's rejoinder.

1. **Shouqiang Wang**, Francis de Véricourt, Peng Sun. 2009. Decentralized Resource Allocation to Control an Epidemic: A Game Theoretic Approach, *Mathematical Biosciences*, 222(1): 1-12.

## Book Chapters

1. Yen-Ting Lin, Haoying Sun, **Shouqiang Wang**. 2020. 'Socially Responsible Co-product Design'. In V. Deshpande and J. Swaminathan (eds.), *Responsible Business Operations*, Springer Series in Supply Chain Management 10, C. Tang (series ed.).

## Submitted Papers

1. Alain Bensoussan, Suresh Sethi, **Shouqiang Wang**. A Stationary Infinite-Horizon Supply Contract under Asymmetric Inventory Information. (Major revision at *Operations Research*)
2. **Shouqiang Wang**, Francis de Véricourt, Peng Sun. Audit and Remediation Strategies in the Presence of Evasion Capabilities. (Prepare for resubmission to *Management Science*)

## Work in Progress

1. Can Küçükgül (PhD student), Özalp Özer, **Shouqiang Wang**. *Advertisement Policies For Online Platforms With Consumer Privacy Concerns*.
2. Mehdi H. Farahani (PhD student), Milind Dawande, Ganesh Janakiraman, **Shouqiang Wang**. *Avoiding Fields on Fire: Information Dissemination Policies for Environmentally Safe Crop-Residue Management*.
3. Michael Blair (PhD student), Saed Alizamir, **Shouqiang Wang**. *Understanding Electricity Consumption Through Smart Thermostat Data*.

4. Saed Alizamir, Fariba Farajbakhsh Mamaghani (PhD student), **Shouqiang Wang**. *Electricity Pricing with Limited Consumer Response*.

Selected to present at 4th Annual Early-Career Sustainable Operations Workshop

5. Feng Tian (PhD student), **Shouqiang Wang**, Feifan Zhang (PhD student). *Early or Late Warnings?*
6. **Shouqiang Wang**, Aleda V. Roth, Qiong Chen (PhD student). *Strategic Role of Service Quality Monitoring*.

## Technical Report

1. **Shouqiang Wang**. 2008. Implementation of Reduced Form Auction for Asymmetric Bidders with Continuous Types.  
Published online: <http://www.utdallas.edu/~sxw163830/papers/Border.pdf>
2. **Shouqiang Wang**. 2008. A Simple Application of Seminorm Representation in Dynamic Programming.  
Published online: <http://www.utdallas.edu/~sxw163830/papers/Seminorm.pdf>

## Invited Seminar Talks

School of Management, Fudan University	2021
Olin Business School, Washington University in St. Louis	
School of Business, University of California at Riverside	
Naveen Jindal School of Management, University of Texas at Dallas	2020
School of Management, Yale University	
David Eccles School of Business, University of Utah	
Texas Economic Theory Camp, Department of Economics, University of Texas at Austin	2019
McDonough School of Business, Georgetown University	
Carey Business School, Johns Hopkins University	
Sauder School of Business, University of British Columbia	
Foster School of Business, University of Washington at Seattle	
The Hong Kong Polytechnic University	2017
College of Business, University of Illinois at Urbana-Champaign	2015
College of Business Administration, University of Illinois at Chicago	
Naveen Jindal School of Management, University of Texas at Dallas	
Merage School of Business, University of California at Irvine	2014
Fuqua School of Business, Duke University	
Department of Mathematical Sciences, Clemson University	
LeBow College of Business, Drexel University	2011
College of Business and Behavioral Science, Clemson University	

## Conference Presentations

### Advertisement Policies For Online Platforms With Consumer Privacy Concerns

INFORMS 2020 Annual Meeting, virtually online

November 2020

## Engineering Social Learning: Information Design of Time-Locked Sales Campaigns for Online Platforms

INFORMS 2019 Annual Meeting, Seattle, WA

October 2019

## Warning Against Recurring Risks: An Information Design Approach

INFORMS 2020 Annual Meeting, virtually online

November 2020

INFORMS 2019 Annual Meeting, Seattle, WA

October 2019

INFORMS 2018 Annual Meeting, Phoenix, AZ

November 2018

M&SOM 2018 Conference, University of Texas at Dallas, Richardson, TX

July 2018

POMS 29th Annual Conference, Houston, TX

May 2018

## Electricity Pricing with Limited Consumer Response

4th Annual Early-Career Sustainable Operations Workshop, Scheller College of Business, Georgia Institute of Technology, Atlanta, GA

March 2018

## Audit and Remediation Strategies in the Presence of Evasion Capabilities

POMS 29th Annual Conference, Houston, TX

May 2018

INFORMS 2017 Annual Meeting, Houston, TX

October 2017

POMS 28th Annual Conference, Seattle, WA

May 2017

8th POMS-HK International Conference, HKUST, Hong Kong

January 2017

INFORMS 2016 Annual Meeting, Nashville, TN

November 2016

## The Informational Role of Buy-Back Contracts

M&SOM 2018 Conference, University of Texas at Dallas, Richardson, TX

July 2018

9th POMS-HK International Conference, CUHK, Hong Kong

January 2018

INFORMS 2017 Annual Meeting, Houston, TX

October 2017

POMS 27th Annual Conference, Orlando, FL

May 2016

INFORMS 2015 Annual Meeting, Philadelphia, PA

November 2015

## Inducing Environmental Disclosures: A Dynamic Mechanism Design Approach

POMS 27th Annual Conference, Orlando, FL

May 2016

2nd Annual Workshop on Sustainable Supply Chain Management,  
Poole College of Management, North Carolina State University, Raleigh, NC

February 2016

INFORMS 2015 Annual Meeting, Philadelphia, PA

November 2015

M&SOM 2015 Conference, Special Interest Group (SIG) Meeting on Sustainable Operations,  
Rotman School of Management, University of Toronto, Canada

June 2015

7th Annual ARCS Research Conference,

Kellogg School of Management, Northwestern University, Chicago, IL

May 2015

POMS 26th Annual Conference, Washington, DC

May 2015

INFORMS 2014 Annual Meeting, San Francisco, CA

November 2014

M&SOM 2014 Conference, Foster School of Business, University of Washington, Seattle, WA

June 2014

**Designing Sustainable Products under Co-Production Technology**

M&SOM 2017 Conference, Kenan-Flagler Business School, UNC, Chapel Hill, NC	June 2017
POMS 26th Annual Conference, Washington, DC	May 2015

**Signaling Product Quality through a Trial Program**

POMS 25th Annual Conference, Atlanta, GA	May 2014
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**Sell a Pig in a Poke or Let the Cat out of the Bag: Developing, Signaling, Learning and Screening Quality of a New Experience Good through Trial Period**

INFORMS 2013 Annual Meeting, Minneapolis, MN	October 2013
M&SOM 2013 Conference, Fontainebleau, France	July 2013

**The Strategic Role of Quality Monitoring in the Outsourcing of Service-based Business Processes**

44th DSI Annual Meeting, Baltimore, MA	November 2013
INFORMS 2013 Annual Meeting, Minneapolis, MN	October 2013
POMS 24th Annual Conference, Denver, CO	May 2013
INFORMS 2012 Annual Meeting, Phoenix, AZ	October 2012
M&SOM 2012 Conference, New York, NY	June 2012

**Reverse Ranking and Overshooting in Supply Chains with Private Inventory Information**

POMS 23rd Annual Conference, Chicago, IL	April 2012
INFORMS 2010 Annual Meeting, Austin TX	November 2010

**Multi-dimensional Mechanism Design: Finite Dimensional Approximations and Efficient Computation**

INFORMS 2009 Annual Meeting, San Diego CA	October 2009
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**Decentralized Resource Allocation to Control an Epidemic: a Game Theoretic Approach**

INFORMS 2008 Annual Meeting, Washington DC	October 2008
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**Network Routing in Counterterrorism: an Adversarial Risk Analysis Framework**

U.S. Army Conference on Applied Statistics, Cary NC	October 2010
The ISBA 2010 World Meeting and the 9th Valencia International Meeting on Bayesian Statistics, Benidorm, Spain	June 2010

**PhD Students Supervision****Yale University**

Michael Blair (co-advisor with Saed Alizamir)	ongoing
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**University of Texas at Dallas**

Can Küçükgül (co-advisor with Özalp Özer)	ongoing
Fariba Farajbakhsh Mamaghani (co-advisor with Metin Çakanyıldırım)	ongoing
Mehdi H. Farahani (committee member)	ongoing
Xi Shan (committee member)	2019
Placement: Boston College	
Ting Luo (committee member)	2016
Placement: California State University at Fullerton, Mihaylo College of Business and Economics.	

**Clemson University**

Qiong Chen (committee member)	2015
Placement: University of Science and Technology of China, the School of Management.	
Sriram Venkataraman (committee member)	2013
Placement: University of South Carolina, Darla Moore School of Business.	

**Teaching Experience****University of Texas at Dallas**

<i>OPRE 4350 – Spreadsheet Modeling and Analytics</i> (undergrad elective)	F 16-20, S 21
<i>OPRE 6301 – Statistics and Data Analysis</i> (Daytime MBA, graduate core, Executive/Online MBA)	F 16-20

**Clemson University**

<i>MGT 3170 – Logistics Management</i> (undergrad elective)	F, S 11-15
<i>MGT 4120 – Supplier Management</i> (undergrad elective)	F, S 11-16
<i>MGT 3900 Operations Management</i> (undergrad core)	S 15-16

**Duke University**

EGRMGMT 280 Decision Models (graduate)	S 11
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**Services****Editorial Positions**

Associate Editor, <i>Manufacturing &amp; Service Operations Management</i>	2021 - present
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**Professional Community**

Reviewer, U.S. National Science Foundation Research Proposal	2020
Judge, M&SOM Student Paper Competition	2017-21
Judge, POMS College of Humanitarian Operations and Crisis Management Best Paper Competition	2021
Judge, POMS College of Sustainable Operations Student Paper Competition	2017, 19
External reviewer, Research Grants Council (RGC) of Hong Kong	2020-21
Committee member, INFORMS ENRE Best Publication Award for Environment and Sustainability	2019

## Professional Conferences

2018 M&SOM Conference Organizing Committee	2017-18
Referee for M&SOM SIG conferences	2017-21
Session Chairs at INFORMS and POMS annual meetings	2011-

## Journal Referee

*Management Science, Operations Research, M&SOM, POM, International Economic Review, Decision Analysis, Omega, Naval Research Logistics, Mathematical Biosciences, European Journal of Operations Research, Asia-Pacific Journal of Operational Research*

## University of Texas at Dallas

Tenure and Promotion Committee	2021-22
OM Area PhD Admission Coordinator	2017-18
Jindal School of Management Energy Management Program Committee	2017-
Advisory Board of ICDRiA	2017-
Faculty sponsor for UT Dallas MBA Football Sabermetrics Club	2017
Faculty recruitment committee	2016-18
Jindal School of Management Facilities Committee	2016-17
Outside chair for doctoral dissertation defense: <i>Maziyar Baran Pouyan</i> , Computer Engineering	2016

## Clemson University

Organizer of <i>Supply Chain &amp; Operations Management Distinguished Scholar Series</i>	2014-16
Organizer of <i>Supply Chain Industry Speaker Series</i>	2013-16
Faculty recruitment committee	2014-15
PhD comprehensive examination coordinator	2012

## Professional Affiliations

Institute for Operations Research and the Management Sciences (INFORMS)
The Manufacturing and Service Operations Management Society (MSOM)
Decision Analysis Society (DAS)
Applied Probability Society (APS)
Revenue Management and Pricing Section (RMP)
Section on Public Sector OR (PSOR)
Section on Energy, Natural Resources, and the Environment (ENRE)
Production and Operation Management Society (POMS)
Decision Science Institute (DSI)

## Skills

**Programming:** Matlab, Excel, Analytic Solver Platform, Crystal Ball,  $\LaTeX$ , R, Mathematica, C

**Language:** Fluent in English and Chinese (Mandarin)



## **Status**

Chinese citizen, U.S. permanent resident.

## **References**

Available upon request.

Last updated: May 27, 2021