

SHI CHEN (陈实)

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(Updated on March 14, 2025)

ACADEMIC POSITION

- 09/2020-Present **Foster School of Business, University of Washington, Seattle, WA**
- Marion B. Ingersoll Professorship
 - Associate Professor of Operations Management
- 05/2020-09/2020 **Foster School of Business, University of Washington, Seattle, WA**
- Marion B. Ingersoll Professorship
 - Assistant Professor of Operations Management
- 09/2013-05/2020 **Foster School of Business, University of Washington, Seattle, WA**
- Assistant Professor of Operations Management

EDUCATION

- 09/2008-09/2013 **Stanford University**, Management Science & Engineering, Stanford, CA
- Ph.D. in the field of Management Science and Engineering
 - Thesis: Scheduling, Contracting, and Capacity Planning for Project-Based Supply Chain Management
 - Dissertation committee members: Prof. Hau Lee, Prof. Warren Hausman, and Prof. Erica Plambeck
- 09/2006-06/2008 **Tsinghua University**, Industrial Engineering, Beijing, China
- Master of Science in Management Science & Engineering
- 09/2004-06/2006 **Ecole Centrale Paris**, Industrial Engineering, Paris, France
- Diplôme d'Ingénieur (Double-Degree Program with Tsinghua University)
- 09/2002-06/2004 **Tsinghua University**, Industrial Engineering, Beijing, China
- Bachelor of Engineering in Industrial Engineering

CURRENT RESEARCH INTERESTS

- Stochastic inventory models
- Data-driven supply chain management
- Responsible and sustainable supply chains
- Renewable energy procurement and contracting
- Operations management strategies in the cloud computing industry

FEATURED RESEARCH (PUBLICATIONS AT UTD-24 TOP BUSINESS JOURNALS)

1. **Chen, S.**, Cohen, M. A., Lee, H., 2024. [Enhancing Customer-Supplier Relationship Through Customer-Managed Inventory](#). *Management Science*, first published online Mar 21, 2024
2. **Chen, S.**, Lei, J., Moinzadeh, K., 2024. [Cost Optimization in Cloud Computing: Capacity Reservation for Intermittent Random Demand Surges](#). *Production and Operations Management*, 33(6), pp.1265-1284.
3. **Chen, S.**, Lei, J., Moinzadeh, K., 2023. [Inventory and Supply Chain Management with Auto-Delivery](#). *Production and Operations Management*, 32(12), pp. 4046-4087.
4. **Chen, S.**, Moinzadeh, K., Song, J. S., Zhong, Yuan., 2023. [Cloud Computing Value Chains: Research from the Operations Management Perspective](#). *Manufacturing & Service Operations Management*, 25(4), pp. 1338-1356.
5. **Chen, S.**, Lei, J., Moinzadeh, K., 2022. [When to Lock the Volatile Input Price? Procurement of Commodity Components Under Different Pricing Schemes](#). *Manufacturing & Service Operations Management*, 24(2), pp. 1183-1201.

6. **Chen, S.**, Moinzadeh, K., Tan, Y., 2021. [Discount Schemes for the Preemptible Service of a Cloud Platform with Unutilized Capacity](#). *Information Systems Research*, 32(3), pp. 967-986.
7. Arbabian, M., **Chen, S.**, Moinzadeh, K., 2021. [Capacity Expansions with Bundled Supplies of Attributes: An Application to Server Procurement in Cloud Computing](#). *Manufacturing & Service Operations Management*, 23(1), pp. 191-209.
8. **Chen, S.**, Lee, H., Moinzadeh, K., 2019. [Pricing Schemes in Cloud Computing: Reservation-Based versus Utilization-Based](#). *Production and Operations Management*, 28(1), pp. 82-102.
9. **Chen, S.**, Zhang, Q., Zhou, Y. P., 2019. [Impact of Supply Chain Transparency on Sustainability under NGO Scrutiny](#). *Production and Operations Management*, 28(12), pp. 3002-3022.
10. **Chen, S.**, Moinzadeh, K., 2018. [Inventory Control and Delivery Time Quotation for Assembly Supply Chains](#). *Operations Research*, 66(4), pp. 1004-1022.
11. **Chen, S.**, Lee, H., 2017. [Incentive Alignment and Coordination for Project Supply Chains](#). *Management Science*, 63(4), pp. 1011-1025.
12. **Chen, S.**, Lee, H., Moinzadeh, K., 2016. [Supply Chain Coordination with Multiple Shipment: Optimal Inventory Subsidizing Contracts](#). *Operations Research*, 64(6), pp. 1320-1337.

OTHER PUBLICATIONS

13. Hou, X., **Chen, S.** 2024. [Renewable Energy Procurement Through the Lens of Operations Management](#). In *Responsible and Sustainable Operations – The New Frontier*, Springer Series in Supply Chain Management (Christopher S. Tang edited), pp.205-223.
14. **Chen, S.** 2024. [Capacity Planning in the Cloud Computing Industry Under Time and Demand Uncertainties](#). In *Foundations and Trends® in Technology, Information and Operations Management*, 18(1), pp.1-21.
15. Lee, S., Zabinsky, Z. B., Wasserheit, J. N., Ross, J. M., **Chen, S.**, Liu, S., 2024. [Impact of Vaccination and Nonpharmaceutical Interventions With Possible COVID-19 Viral Evolutions Using an Agent-Based Simulation](#). *AJPM focus*, 3(1), p.100155.
16. Zhang, M., **Chen, S.**, Luo, H., Wang, Y., 2023. [No-Regret Learning in Two-Echelon Supply Chain with Unknown Demand Distribution](#). *Proceedings of the 26th International Conference on Artificial Intelligence and Statistics*, PMLR, 206, pp. 3270-3298.
17. **Chen, S.**, Lei, J., Moinzadeh, K., 2022. [Operations Management in Semiconductor and Computing Technology Industries: Capacity, Outsourcing, and Production](#). In *Creating Values with Operations and Analytics: A Tribute to the Contributions of Professor Morris Cohen*. Cham: Springer International Publishing, pp.199-233.
18. **Chen, S.**, Klastorin, T., Wagner, M., 2021. [Designing Practical Coordinating Contracts in Decentralized Projects](#). *Naval Research Logistics (NRL)*, 68(2), pp. 183-198.

PAPERS UNDER REVIEW AND IN PROGRESS

19. **Chen, S.**, Liu, Z. B., Moinzadeh, K., Tan, Y. [When to Broadcast? An Analysis of Inventory Disclosure Policies for Online Flash Sales](#). Conditional Acceptance at *Information Systems Research*.
20. **Chen, S.**, Luo, H., Wang, Y., Zhang, M. [Coordination under Unknown Demand Distribution: Online Learning for Two-Echelon Supply Chains](#). Under Review at *Manufacturing & Service Operations Management*.
21. Chen, J., **Chen, S.**, Xie, Y., Wang, J. Alliance Formations with Joint Sustainable Technology

Innovation Efforts. Major Revision at *Production and Operations Management*.

22. **Chen, S.**, Hou, X. [Collective Renewable Power Purchase Agreement](#). Revise and Resubmit at *Manufacturing & Service Operations Management*.
23. **Chen, S.**, Lu, T., Tong, Y. The Value of Negative Self-Disclosure in Supply Chain Social Responsibility. Working Paper.
24. **Chen, S.**, Cohen, M. A., Lee, H. Who Directs the Control Tower? Customer vs. Supplier-Managed Inventory in Supply Chains. Work in Progress.
25. **Chen, S.**, Lei, J., Moinzadeh, K. Supply Chain Profitability and Resilience under Diffusion of Disruption Risks. Work in Progress.
26. **Chen, S.**, Moinzadeh, K., Zeng, R. Cost Optimization for the Battery-as-a-Service Model of Electric Vehicles: Inventory Management for Battery-Swapping Station Network. Work in Progress.

SERVICES AND AWARDS

- 2024 – present, Associate Editor, *Manufacturing & Service Operations Management*
- 2020 – present, Senior Editor, *Production and Operations Management*
- 2020 – present, Marion B. Ingersoll Professorship, Foster School of Business
- 2023 – 2024, Secretary/Treasurer, MSOM Society Board of Officers
- 2023 – 2024, Arrangement Co-Chairs, 2024 INFORMS Annual Conference (Seattle, WA)
- 2023 – 2024, Co-Chairs, 2024 INFORMS Annual Conference Supply Chain Management Cluster (Seattle, WA)
- 2024, Co-Chairs, Third Annual Symposium on Environmental and Social Sustainability in Supply Chains (Seattle, WA)
- 2020 Dean’s Award for Research of the Year, Foster School of Business
- 2018 Meritorious Service Award, Manufacturing & Service Operations Management Society
- 2017 Meritorious Service Award, Manufacturing & Service Operations Management Society

TEACHING EXPERIENCE

- **University of Washington, Foster School of Business, Seattle, WA**
 - PhD Program
 - *OPMGT 590: Stochastic Models (2021, 2022, 2023,2024)*
 - Master of Business Analytics
 - *BUSAN 507: Spreadsheet Modeling for Business Enterprises (2019, 2020, 2021, 2022, 2023)*
 - Master of Supply Chain Management
 - *SCM 512: Spreadsheet Modeling for Business Enterprises (2017, 2018, 2019, 2020, 2021, 2022, 2023)*
 - MBA (Evening Core Course)
 - *QMETH501: Decision Support Models (2014, 2016, 2017, 2018, 2019, 2020)*
 - Undergraduate (Information Systems and Operations Management Core Courses)
 - *OPMGT 301: Principles of Operations Management (2014, 2015, 2016, 2018, 2019, 2020, 2021, 2022, 2023, 2024)*
 - *QMETH 450: Spreadsheet Models for Business (2021, 2022)*
 - *IS 451: Business Data Analytics (2017)*

- **Stanford University, Management Science and Engineering Department, Stanford, CA**
 - Master of Management Science and Engineering
 - *MS&E 260(Master of Science): Introduction to Operations Management (2012)*

CONFERENCE & INVITED SEMINAR PRESENTATION

- “Supply Chain Profitability and Resilience under Diffusion of Disruption Risks”
 - 2024 Supply Chain Finance and Risk Management Workshop, Olin Business School, Washington University in St. Louis (St. Louis, MO)
 - 2024 Tsinghua University, School of Economics and Management (Beijing, China)
- “Collective Power Purchase Agreements (PPA) for Renewable Energies – Negotiation and Risk Sharing Mechanisms”
 - 2025 Supply Chain Management Conference on Sustainability and Social Responsibility, UIUC Gies College of Business (Champaign, IL)
 - 2023 POMS International Conference (Paris, France)
 - 2023 Supply Chain Finance and Risk Management Workshop, Olin Business School, Washington University in St. Louis (St. Louis, MO)
 - 2023 Stanford OIT Conference on Sustainability (Stanford, CA)
- “Coordination under Unknown Demand Distribution: Online Learning for Two-Echelon Supply Chains”
 - 2023 INFORMS Annual Conference (Phoenix, AZ)
 - 2023 The 29th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (Long Beach, CA)
 - 2023 POMS Annual Conference (Orlando, FL)
- “Capacity Reservation for Intermittent Random Demand Surges: A Model for Cost Optimization in Cloud Computing”
 - 2024 Cambridge Handbook on Digital Platforms Symposium (Los Angeles, CA)
 - 2023 UW Industrial and Systems Engineering Department (Seattle, WA)
- “Cloud Computing Value Chains: Research from Operations Management Perspective”
 - 2024 Dartmouth College Tuck School of Business (Hanover, NH)
 - 2024 University of Southern California Marshall School of Business (Los Angeles, CA)
 - 2021 Central University of Finance and Economics (Beijing, China)
- “When to Broadcast? An Analysis of Inventory Disclosure Policies for Online Flash Sales”
 - 2024 University of Texas at Dallas Jindal School of Management (Richardson, TX)
 - 2022 Cornell University Johnson Graduate School of Management (Ithaca, NY)
 - 2021 MSOM Annual Conference (Bloomington, IN)
 - 2021 Singapore Management University (Singapore)
 - 2020 Duke University, Fuqua Business School (Durham, NC)
- “When to Lock the Price? Procurement in the Face of Input Price and Demand Volatilities”
 - 2019 POMS Annual Conference (Washington D.C.)
- “On-Demand and Low-Priority Services: Discount Schemes for Cloud Platforms”

- 2019 POMS Annual Conference (Washington D.C.)
- “Pricing Strategies of Cloud Computing: Reservation-Based versus Utilization-Based”
 - 2019 Carnegie Mellon University, Tepper School of Business (Pittsburg, PA)
 - 2019 Georgetown University, McDonough School of Business (Washington, D.C.)
 - 2019 UNC Kenan-Flagler Business School (Chapel-Hill, NC)
 - 2019 UCI Paul Merage Business School (Irvine, CA)
 - 2019 University of Michigan Ross School of Business (Ann Arbor, MI)
 - 2018 University of San Diego, School of Business (San Diego, CA)
 - 2018 Tsinghua University, School of Economics and Management (Beijing, China)
 - 2018 Tsinghua University, Department of Industrial Engineering (Beijing, China)
 - 2018 University of Science and Technology, School of Management (Hefei, China)
 - 2018 MSOM Annual Conference (Dallas, TX)
 - 2018 POMS Annual Conference (Houston, TX)
 - 2018 UBC Sauder School of Business (Vancouver, BC, Canada)
 - 2017 POMS Annual Conference (Seattle, WA)
 - The Second Workshop (2017) on Innovative Market Places (Stanford, CA)
- *“Impact of Supply Chain Transparency on Sustainability”*
 - 2017 POMS Annual Conference (Seattle, WA)
 - 2016 MSOM Annual Conference (Auckland, New Zealand)
 - 2015 INFORMS Annual Conference (Philadelphia, PA)
 - 2015 MSOM Annual Conference (Toronto, Ontario, Canada)
 - 2015 Tsinghua University, School of Economics and Management (Beijing, China)
- *“Motivating Suppliers’ Pollution Abatement Investments and Pollution Reduction Efforts via Sourcing Strategies”*
 - 2017 Symposium on Innovations and Sustainability (Hong Kong, China)
 - 2017 POMS Annual Conference (Seattle, WA)
 - 2016 MSOM Annual Conference (Auckland, New Zealand)
- *“Incentive Alignment and Coordination for Project Supply Chains”*
 - 2016 Washington University at St. Louis, Olin Business School (St. Louis, MO)
 - 2016 Johns Hopkins Carey Business School (Baltimore, MD)
 - 2016 MSOM Conference, Supply Chain Management SIG (Auckland, New Zealand)
 - 2015 Santa Clara University, Leavey School of Business (Santa Clara, CA)
 - 2014 INFORMS Annual Conference (San Francisco, CA)
 - 2014 MSOM Annual Conference (Seattle, WA)
 - 2014 POMS Annual Conference (Atlanta, GA)
 - 2013 POMS Annual Conference (Denver, CO)
 - 2013 INFORMS Annual Conference (Minneapolis, MN)
- *“Inventory Control and Delivery Time Quotation for Assembly Supply Chains”*

- 2018 MSOM Annual Conference (Dallas, TX)
- 2018 POMS Annual Conference (Houston, TX)
- 2017 POMS Annual Conference (Seattle, WA)
- 2016 Washington University at St. Louis, Olin Business School (St. Louis, MO)
- 2016 John Hopkins Carey Business School (Baltimore, MD)
- *“Material Release Scheduling in Project-Based Supply Chain Management”*
 - 2012 MSOM Annual Conference (New York, NY)
 - 2012 POMS Annual Conference (Chicago, IL)
- *“Supply Chain Coordination with Multiple Shipments”*
 - 2019 POMS Annual Conference (Washington D.C.)
 - 2014 INFORMS Annual Conference (San Francisco, CA)
 - 2014 MSOM Annual Conference (Seattle, WA)
 - 2014 POMS Annual Conference (Atlanta, GA)

CONSULTING EXPERIENCE

- 12/2011-08/2012 “Optimize capacity plan and project-driven supply chain management for data center capacity expansion projects,” with **Google, Inc.**, Mountain View, CA. and **Stanford Graduate School of Business**, Stanford, CA.
- 09/2009-06/2010 “Optimization of the material delivery schedules for commercial construction projects,” with **DCH Global, Inc.**, Scottsdale, AZ. and **Stanford Center for Integrated Facility Engineering (CIFE)**, Stanford, CA.
- 09/2006-06/2007 “Analysis of the optimal inventory control policy of the RFID-enabled container management system,” with **General Motors, Inc.**, Warren, MI. and **Tsinghua Industrial Engineering Department**, Beijing, China.