

Shining Wu

Department of Logistics and Maritime Studies
The Hong Kong Polytechnic University
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EDUCATION

- 2014 **The Hong Kong University of Science and Technology**, Hong Kong
Ph.D. in Industrial Engineering and Logistics Management
Dissertation: Essays on Strategic Consumers with Reference Effects and
Spectrum Sharing Networks
- 2009 **Peking University**, Beijing, China
B.S. in Statistics

ACADEMIC EXPERIENCE

Department of Logistics and Maritime Studies, The Hong Kong Polytechnic University,
Hong Kong

Assistant Professor

Sep. 2015 – present

Department of Industrial Engineering and Logistics Management, The Hong Kong Uni-
versity of Science and Technology, Hong Kong

Postdoctoral Fellow

Sep. 2014 – Sep. 2015

RESEARCH INTERESTS

Sharing economy, supply chain management, dynamic pricing, inventory control, strategic consumer behavior, queueing theory and its applications, data-driven optimization

PUBLICATIONS

- [1] Wu, S., Q. Liu, and R. Q. Zhang (2015). The reference effects on a retailer's dynamic pricing and inventory strategies with strategic consumers. *Operations Research* 63(6), 1320–1335
- [2] Wu, S., J. Zhang, and R. Q. Zhang (2018). Management of a shared-spectrum network in wireless communications. *Operations Research* 66(4), 1119–1135

WORKING PAPERS

- [1] Capacity Provisioning of Queueing Systems with Impatient Customers: A Data-driven Approach.
- [2] Two-sided Competition Between On-demand Service Platforms (with Shihong Xiao and Saif Benjaafar), *under review*.
- [3] Dimensioning On-Demand Vehicle Sharing Systems (with Saif Benjaafar and Hanlin Liu).

PRESENTATIONS

- [1] “Two-sided Competition Between On-demand Service Platforms” at the 2019 INFORMS Annual Meeting, Seattle, USA, Oct. 2019.
- [2] “A Learning Algorithm for Capacity Provisioning of Queueing Systems with Impatient Customers” at Mostly OM 2019 Workshop, Shenzhen, China, Jun. 2019.
- [3] “A Learning Algorithm for Capacity Provisioning of Queueing Systems with Impatient Customers” at POMS 2019 - Thirtieth Annual Conference, Washington, District of Columbia, USA, May 2019.
- [4] “Alleviating Spectrum Scarcity by Sharing A Queueing Perspective” at INFORMS 2018 International Conference, Taipei, Taiwan, Jun. 2018.
- [5] “Management of a Shared Spectrum Network in Wireless Communications A Queueing Approach” at the 2017 INFORMS Annual Meeting, Houston, USA, Oct. 2017.
- [6] “Management of a Shared Spectrum Network in Wireless Communications - A Queueing Approach” at INFORMS Applied Probability Society Conference 2017 (APS), Evanston, IL, USA, Jul. 2017.
- [7] “The Reference Effects on a Retailer’s Dynamic Pricing and Inventory Strategies with Strategic Consumers” at INFORMS 2016 International Conference, Hawaii, USA, Jun. 2016.
- [8] “The Reference Effects on a Retailer’s Dynamic Pricing and Inventory Strategies with Strategic Consumers” at The Fifth POMS-HK International Conference, Hong Kong, Jan. 2014.

RESEARCH GRANTS

- Research Grants Council Grant No. 15507919, 2020–2022, “Data-Driven Pricing Strategies in the Presence of Reference”, HK\$381,000, PI
- Research Grants Council Grant No. 25504517, 2018–2020, “A Data-Driven Approach for the Capacity Provisioning of Queueing Systems with Incomplete System Information”, HK\$580,000, PI
- National Natural Science Foundation of China No. 71301032, 2014–2016, “The Impact and Preventive Strategies of Deceptive Counterfeits in a Supply Chain with Multiple Channels”, ¥205,000, Co-Investigator (PI: Jie Zhang)

SERVICE

Elected Member: Board of Faculty of Business, PolyU, Sep. 2017 – present

Member: Department Research Committee, Dept. of LMS, PolyU, Sep. 2018 – present

Organizing Committee Member: The POMS-HK International Conference, Hong Kong, January, 2017, 2018, 2020

Co-Chair: Contributed Sessions for INFORMS International Conference, Hawaii, June 2016

Reviewer for journals: Management Science, Operations Research, Naval Research Logistics, Decision Sciences, Probability in the Engineering and Informational Sciences

AWARDS AND HONORS

Honorable Mention, Best Student Paper Competition at The Fifth POMS-HK International Conference, January 2014

IIE (HK) Scholarship, Institute of Industrial Engineers (Hong Kong), 2011 – 2012

COURSES TAUGHT

- LGT2106: Principles of Operations Management
- LGT5105: Managing Operations Systems