# Wei You

## ACADEMIC APPOINTMENT

#### Hong Kong University of Science and Technology

Assistant Professor (2019-present), Industrial Engineering and Decision Analytics (tenure track)

### **EDUCATION**

#### **Columbia University**

Ph.D. in Operations Research (2019)

Thesis: A Robust Queueing Network Analyzer Based on Indices of Dispersion

Committee: Ward Whitt (Advisor), Henry Lam, Martin Reiman, David Yao, Assaf Zeevi

#### Nanjing University

B.Sc in Mathematics (2014)

#### **Research Interests**

Stochastic models, queueing theory, applied probability, online learning, and their applications to the performance analysis and design of service systems.

## **PUBLICATIONS & PREPRINTS**

#### Working Papers

- 1. Optimality Conditions and Algorithms for Top-K Arm Identification, Z. Wang, S. Yang and W. You, working paper, 2022.
- Service Rate Differentiation for Homogeneous Impatient Customers, C. Wu and W. You, working paper, 2022.
- Robust Queueing for Queues with Impatient Customer, W. You, working paper, 2022.
- Operating Three-sided Marketplace: Pricing, Spatial Staffing and Routing in Food Delivery Systems,
   Z. Liu and W. You, working paper, 2022.
- 5. Online resource allocation for service platforms, Z. Wang and W. You, working paper, 2022.

#### Published

- 1. New decomposition approximations for queueing network, W. Whitt and W. You, *Queueing Systems*, 2022.
- 2. A Robust Queueing Network Analyzer Based on Indices of Dispersion, W. Whitt and W. You, *Naval Research Logistics*, 2022.
- 3. Heavy-Traffic Limits for Stationary Network Flows, W. Whitt and W. You, *Queueing Systems*, 2020.

- 4. Time-Varying Robust Queueing,W. Whitt and W. You, *Operations Research*, Volume 67, Issue 6, 2019, pp. 1766-1782.
- The Advantage of Indices of Dispersion in Queueing Approximations,
  W. Whitt and W. You, *Operations Research Letters*, Volume 47, Issue 2, 2019, pp. 99-104.
- Heavy-Traffic Limit of the GI/GI/1 Stationary Departure Process and its Variance Function, W. Whitt and W. You, *Stochastic Systems*, Vol. 8, No. 2, 2018, pp. 143-165.
- 7. Using Robust Queueing to Expose the Impact of Dependence in Single-Server Queues, W. Whitt and W. You, *Operations Research*, Vol. 66, No. 1, 2018, pp. 184-199.

# **TEACHING EXPERIENCE**

Hong Kong University of Science and Technology, Instructor

IEDA5270 Engineering Statistics (2019-2022)

IEDA2540 Statistics for Engineers (2020-2022)

EEMT5500 Applied Probability, Statistics and Data Analytics (2022)

Columbia University, Teaching Assistant

Applied Statistical Models (2017), Simulation (2017, 2015), Stochastic Models (2014)

# **CONFERENCE PRESENTATIONS & INVITED TALKS**

#### Conferences

"Heavy-Traffic Limit for Stationary Network Flows" INFORMS APS Meeting 2019, Brisbane, Australia

"Time-Varying Robust Queueing for Quantile Approxiamtion" INFORMS APS Meeting 2019, Brisbane, Australia

"A Robust Queueing Network Analyzer Based on Indices of Dispersion" INFORMS Annual Meeting 2018, Phoenix, AZ

"A Robust Queueing Network Analyzer for a Series of Single-server Queues" INFORMS Annual Meeting 2017, Houston, TX

*"Time-Varying Robust Queueing"* INFORMS APS Meeting 2017, Evanston, IL

"Using Robust Queueing To Expose The Impact of Dependence In Single Server Queues" INFORMS Annual Meeting 2016, Nashville, TN

## **Invited Talks**

Institute of Applied Mathematics, Chinese Academy of Sciences, 2019

Institute of Mathematical Science, ShanghaiTech University, 2019

Industrial Engineering and Decision Analytics, HKUST, 2019

Industrial and System Engineering, Virginia Tech, 2019

System and Industrial Engineering, University of Arizona, 2019

Business School, University of Miami, 2019

School of Management, University of Science and Technology of China, 2019 Institute for Data and Decision Analytics, Chinese University of Hong Kong, Shen Zhen, 2019 System Engineering and Engineering Management, Chinese University of Hong Kong, 2019 School of Management and Engineering, Nanjing University, 2017

## **ACADEMIC SERVICE**

Reviewer: Queueing Systems, Performance Evaluation Session Chair: INFORMS APS Meeting 2017

# Honors & Awards

Fu Foundation Presidential Distinguished Fellowship	2014-2018
Outstanding Award for National Undergraduate Innovation Program	2013
China National Scholarship	2011