Kang Kang

Industrial & Systems Engineering
University of Minnesota
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Education

Ph.D. Industrial Engineering — Expected graduation: June 2022
University of Minnesota — Minneapolis, MN
Department of Industrial & Systems Engineering
Advisor: Dr. Sherwin Doroudi

B.S. Applied Mathematics (Including Operations Research and Control) — 2016
Jilin University — Changchun, China
Department of Mathematics

BEc Actuarial Science — 2015
Jilin University — Changchun, China
Department of Mathematics

Research Interests

Service Operations, Stochastic Modeling, Queueing Theory

Teaching Experience

University of Minnesota — Minneapolis, MN
Department of Industrial & Systems Engineering

Teaching Assistant

IE 3521: Statistics, Quality, and Reliability	Fall 2021
IE 5111: Systems Engineering I	Fall 2021
IE 4551: Production and Inventory Control	Spring 2021
IE 2021: Engineering Economics	Fall 2020
IE 5080: Reinforcement Learning and Dynamic Programming	Fall 2020
IE 4551: Production and Inventory Control	Spring 2020
IE 2021: Engineering Economics	Fall 2019
IE 4551: Production and Inventory Control	Spring 2019
IE 5541: Project Management	Spring 2018
IE 3521: Statistics, Quality, and Reliability	Spring 2017

Paper Under Review

Kang K, S Doroudi, M Delasay., A Wickeham. A Queueing-theoretic Paradigm for Evaluating Transmission Risks in Service Systems during a Pandemic. *ArXiv preprint arXiv:2103.13441* (2021)

- Major Revision in *Production and Operations Management* special issue on Managing Pandemics: A POM Perspective

Working Paper

Kang K, S Doroudi, M Delasay. Designing Efficient Omni-Channel Services. *Available at SSRN 3657637* (2020) (in preparation to submit to *Manufacturing & Service Operations Management*)

Work in Progress

Kang K, S Doroudi, M Delasay. Evaluating the Risk of Disease Transmission in a Grocery Store Model Using Sojourn Time Overlaps.

Kang K. Equilibrium Analysis of Unobservable M/M/1 Queues with Safety Concerns.

Talks and Workshop

A Queueing-theoretic Paradigm for Evaluating Transmission Risks in Service Systems during a Pandemic

- Virtual 2021 INFORMS Annual Meeting 10/2021
- Virtual INFORMS Healthcare Conference 2021 07/2021
- Virtual 2021 CORS Annual Conference 06/2021

Designing Efficient Omni-Channel Services

- Virtual 2020 INFORMS Annual Meeting 11/2020

Coffee Shop Operations with Mobile Ordering

- INFORMS-APS 2019, Brisbane, Australia 07/2019
- POMS International, Tianjin, China 06/2019
- 2018 INFORMS Annual Meeting, Phoenix, AZ 11/2018
- Queueing and Networks Workshop, Minneapolis, MN 05/2018
- CMU SQUALL Seminar, Pittsburgh, PA 12/2017

Professional Service

Journal Referee. *Omega*

Facilitator. Undergraduate Research Opportunities Program (UROP), 2021

Thesis Committee (reader). Undergraduate Latin Honor Thesis, University Honors Program, 2021

Treasurer. UMN INFORMS Student Chapter, 2020-present

Honors & Awards

John Bowers Excellence in Teaching Assistance Award
2019 Sharing Economy Student Competition, finalists
UMN ISyE Graduate Student Travel Grant
UMN ISyE Merit Fellowship

Software

Matlab, Mathematica, R, Python, Julia

Membership

INFORMS, CORS