

# ERYN JUAN HE

hej@u.nus.edu ◊ Institute of Operations Research and Analytics  
#04-01 Innovation 4, 3 Research Link, Singapore, 117602

## EDUCATION

---

**National University of Singapore**

*2017 - Present*

*Ph.D. in Operations Research and Analytics*

Advisors: Joel Goh and Chung-Piaw Teo

**Xi'an Jiaotong University**

*2012 - 2016*

*B.S. in Mathematics and Applied Mathematics (Elite Program)*

## RESEARCH INTEREST

---

On-Demand Service Platforms, Operations Management, Game Theory, Data Analytics

## WORKING PAPERS

---

“Profit or Growth? Dynamic Order Allocation in a Hybrid Workforce”, with Joel Goh, minor revision at *Management Science*. [pdf]

“Off-Platform Threats in On-Demand Services”, with Sergei Savin, Joel Goh and Chung-Piaw Teo, under review at *Manufacturing and Service Operations Management*. [pdf]

“Reducing Platform Leakage and Recommendation Inequality via Two-sided Stable Matching”, with Tu Ni, Chung-Piaw Teo and Hai Wang.

## PUBLICATIONS

---

Zongsheng Yue, Deyu Meng, Juan He, Gemeng Zhang. Semi-Supervised Learning through Adaptive Laplacian Graph Trimming, *Image and Vision Computing*, 2017, 60, 38-47. (Undergraduate Outstanding Thesis).

## TEACHING EXPERIENCE

---

**Instructor**, DAO 1704 Decision Analytics (Undergraduate), *Spring 2020, Spring 2021*

**TA**, MBA 5017 Managerial Operations and Analytics (MBA), *Fall 2019*

**TA**, DBA 4811 Analytical Tools for Consulting (Undergraduate), *Spring 2019*

**TA**, BDC 6111 Foundation of Optimization (Ph.D.), *Fall 2018*

## CONFERENCE PRESENTATIONS

---

Profit or Growth? Dynamic Order Allocation in a Hybrid Workforce.

- *POMS 31st Virtual Annual Conference 2021*
- *INFORMS Annual Meeting 2019, Seattle, WA*
- *MSOM International Conference 2019, Singapore*
- *POMS HK International Conference 2019, Hong Kong, China*

Off-Platform Threats in On-Demand Service.

- *POMS 31st Virtual Annual Conference 2021*
- *INFORMS Annual Meeting 2020*

## HONORS AND AWARDS

---

NUS Research Scholarship	2017 - 2021
Outstanding Undergraduate Thesis	2016
Outstanding Research Scholarship and “Fushi Shile” Scholarship	2013 - 2016
Second Prize, <i>National Mathematical Contest in Modeling</i> , Shaanxi Ministry of Education.	2013

## SKILLS

---

*Software & Programming:* R, MATLAB, MySQL, Python, Tableau, Latex

*Languages:* Mandarin (native), English (fluent)