

# Xiaoyue ZHANG

Research Link, Innovation 4.0, #04-01, Singapore 117602

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## EDUCATION

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### National University of Singapore

Ph.D. in Operations Research

Institute of Operations Research and Analytics

*Singapore*

*Aug. 2021 - Present*

### National University of Singapore

Msc. in Industrial Systems Engineering and Management

ISEM Department, Faculty of Engineering

*Singapore*

*Aug. 2020 - Jun. 2021*

### Sichuan University

Bachelor of Engineering in Industrial Engineering

*Sichuan, China*

*Sep. 2016 - Jun. 2020*

## RESEARCH EXPERIENCE

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### Optimization of Traffic Signal Control in Singapore

*Dec. 2020 – Present*

Research Assistant under Supervision of Ng Kien Ming & Poh Kim Leng, NUS

- Constructed traffic flow models and optimized green-wave traffic passing through a network of intersections based on Singapore's traffic characteristics.

### Impacts of Regional Factors on Flight Ticket Prices

*Sep. 2019 - Jun. 2020*

Advisor: Surya Liman, Associate Professor, SCUPI

- Established stochastic dynamic for a single-stage flight (the same airline at the same time) and formulated optimal prediction equation based on the Hamilton-Jacobi.

## HONORS AND AWARDS

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NUS Research Scholarship

*Aug. 2021*

First-Class Comprehensive Scholarship

*Nov. 2019*

Excellent Student Leader (as Volunteer Team Leader)

*Oct. 2019*

Dean's List Scholarship

*Oct. 2019*

Annual Outstanding Teaching Assistant

*Mar. 2019*

## SKILLS AND HOBBIES

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**Languages:** Mandarin (Native), English (Fluent)

**Technical:** MATLAB, Python, Minitab, SPSS, Access, R, SIMIO, CATIA

**Hobbies:** Music, Longboard