

# WENYU WANG

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## EDUCATION

### National University of Singapore

*Ph.D.student in Operations Research and Analytics*

Aug 2024 - Present

*Singapore*

### Shanghai University of Finance and Economics

*Master of Optimization and Cybernetics*

Sep 2021 - Jun 2024

*Shanghai, China*

### Shanghai University of Finance and Economics

*Bachelor of Mathematics and Applied Mathematics*

Sep 2017 - Jun 2021

*Shanghai, China*

## RESEARCH INTERESTS

Optimization under uncertainty, Decision-making problems

## RESEARCH EXPERIENCE

### Systemic Risk Analysis and Network Reconstruction

*Advised by Prof.Xueting Cui*

Jul 2022 - Jul 2023

*Shanghai, China*

- Modified Eisenberg-Noe model with chance constraints.
- Proved the existence of potential distributions and analyzed the theoretical nature of the problem.
- Managed to prove its non-convexity by floating body and provided a counterexample in a specific case.

### Convex Relaxation and Algorithms Researches for Matrix Completion

*Advised by Prof.Xueting Cui*

Jan 2021 - May 2021

*Shanghai, China*

- Researched the problems of low-rank matrix optimization and manifold optimization.
- Adopted ADMM to reconstruct low-rank matrixes and sparse matrixes and applied it to restore damaged images

## PROFESSIONAL EXPERIENCE

### Algorithm Intern (Specified in Operations Research)

*Yum China*

Sep 2022 - Jan 2023

*Shanghai, China*

- Participated in the project of Scheduling for Managers, constructed the fundamental code framework in Python for generating monthly schedules, and solved the problem through Gurobi.

### Data Science Intern

*Fast Retailing - UNIQLO*

Jan 2022 - Jul 2022

*Shanghai, China*

- Participated in Project of Inter-Store-Transfer, Project of Warehouse-Store-Transfer, and Project of Estimation of Customer Flow.

## SELECTED HONORS & AWARDS

- **Scholarships:** 2022 and 2023 First Prize Scholarship for Postgraduates(6%), 2019 Shanghai Scholarship(2%), 2017 and 2018 First Prize of the People's Scholarship (5%)
- **Competitions:** 2019 Second Prize in SUFE Contest in Modeling(15%), 2019 Honorable Mention in American Interdisciplinary Contest in Modeling(15%)
- **Honors:** 2024 Excellent Graduate in SUFE(4%), 2021 Excellent Graduate in Shanghai(4%), 2021 SUFE's Bachelor of Honor (3%), 2019 and 2020 Honor Student of SUFE(3%)

## SKILLS & INTERESTS

- **Programming Skills:** Python, Matlab, Gurobi, MySQL, Tableau
- **Languages:** English (fluent), Mandarin (native)