

# Linsheng Zhuang

Institute of Operations Research and Analytics, NUS

linsheng.z@u.nus.edu | zhuanglinsheng@outlook.com | +65-8497-3982

<https://www.zhuanglinsheng.com> | [github.com/zhuanglinsheng](https://github.com/zhuanglinsheng)

## Education

---

### National University of Singapore

Institute of Operations Research and Analytics. Ph.D Student in Operations Research Aug 2020 – Present  
Advised by Jussi Keppo and Zhi Chen

### Peking University

HSBC Business School. Master in Economics Aug 2017 – June 2020  
School of Economics. Bachelor in Economics Aug 2013 – June 2017

## Downloadable Paper

---

Zhuang, Linsheng and Chen, Zhi and Keppo, Jussi, (2024), The Impact of Tie Intervals on Rank-Based Contests. (submitted to *Games and Economics Behavior*)

## Working in Progress

---

### Academic Paper

Zhuang, Linsheng and Chen, Zhi and Keppo, Jussi, (2023), Data Sharing and Market Protection. (Presented in INFORMS 2023 Annual Meeting in Phoenix.)

Zhuang, Linsheng and Keppo, Jussi and Sun, Peng, (2024), Parallel Tug-of-War Innovation Contests.

### Industry Project

Shipping network optimization by reinforcement learning, working with CMA CGM Shipping company.

## Early Experience

---

**Internship**, National University of Singapore IORA, Singapore Summer 2019

**Research Assistant**, Sargent Institute of Quantitative Economics and Finance, PHBS Summer 2018

**Internship**, PriceWaterhouseCoopers (PwC), Shenzhen and Guangzhou Winter 2017

## Coding Projects

---

**General-purpose Data Structure Library in Pure C (link)** 2024-Present

- A general-purpose data structure library implemented in pure ANSI C
- Tools Used: C, BLAS, LAPACK, CMake

**Linear Programming Solver (link)** 2022-Present

- An implementation of the Simplex algorithm for linear programming in pure ANSI C.
- Tools Used: C, BLAS, LAPACK, CMake

**Custom Programming Language (link)** 2021-Present

- Tapas is a programming language designed to be embedded in C++. It is a fast, lightweight, header-only alternative to similar languages like Lua.
- Tools Used: C, C++, Eigen, CMake

## Skills

---

**Programming Languages:** C, C++, Python

**Technologies:** Numerical analysis; mathematical modeling.