Linsheng Zhuang

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

Early Experience

Internship, National University of Singapore IORA, Singapore — Summer 2019
Research Assistent, Sargent Institute of Quantitative Economics and Finance, PHBS — Summer 2018
Internship, PriceWaterhouseCoopers (PwC), Shenzhen and Guangzhou — Summer 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.