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Personal Information:
Date of Birth: October 30, 1995.
Gender: Male.
Nationality: P. R. China.

Undergraduate Studies:
B.S., Economics, China Economics and Management Academy, Central University of Finance and Economics, 2013 – 2017.

Master Level Work:
M.S., Economics, Shenzhen Finance Institute, School of Management and Economics, The Chinese University of Hong Kong, Shenzhen, 2019 – 2021.

Graduate Studies:
Singapore Management University, 2022 to present.
Thesis Title: AI Applications and High-Frequency Analysis for Policy Shocks.
Expected Completion Date: June 2027.

Thesis Committee and References:

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Teaching and Research Fields:
Primary fields: Econometrics, AI for Economics.
Secondary fields: Economic Forecasting.

Teaching Experience:

Teaching Assistant:
ECON6001: Time Series Econometrics, 2026 Spring, SMU
ECON682: Econometric Analysis, 2025 Fall, SMU
ECON207: Intermediate Econometrics, 2025 Fall, SMU
DSA305: Panel Data Analysis, 2024 Spring, SMU.
ECON212: Real Estate Economics, 2023 Fall, 2025 Spring, SMU.

DMS3002: Applied Probability and Stochastic Processes, 2022 Spring, CUHK-Shenzhen.
ECO3080: Machine Learning in Business, 2021 Spring and Fall, CUHK-Shenzhen.
ECO2121: Basic Statistics, 2021 Spring, CUHK-Shenzhen.
ECO6125: Chinese Economic Policies and Their Effects, 2021 Spring, CUHK-Shenzhen.
ECO6102: Advanced Econometrics, 2020 Fall, CUHK-Shenzhen.

Research Experience:

Research assistant for Prof. Jia Li, Singapore Management University, 2024 - 2026.

Conference and Seminar Presentations:

1. The 3rd Annual International Conference of the Greater Bay Econometrics Study Group.
2. SMU Econometrics Workshop, 2023-2026, Singapore Management University.
3. SMU Applied Micro Reading Group, 2024, Singapore Management University.
4. International Conference on Smart Finance (ICSF), School of Management and Economics, The Chinese University of Hong Kong, Shenzhen, 2021 Summer.

Honors, Scholarships, and Fellowships:

Presidential Award of Outstanding Graduate Student, CUHK-Shenzhen.
SMU-CSC Joint Scholarship.

Research Papers:

"Weak Identification in News-Jump Regressions." (Job Market Paper)
Abstract: News-jump regressions are high-frequency event-study regressions under infill asymptotics. When news-jumps in explanatory variables over narrow observation windows are of the same magnitude as diffusive background noise, the regression coefficient is weakly identified, invalidating least-squares estimation and inference. I develop identification-robust inference based on Anderson–Rubin tests and derive, in a Gaussian limit experiment arising from the jump-diffusion process, a minimal sufficient and complete statistic for jumps, thereby enabling powerful conditional inference. In applications, I invert the proposed robust tests to revisit the empirical questions of Nakamura and Steinsson (2018) using minute-by-minute data, assess the effects of oil shocks triggered by the Russia–Ukraine and Iran wars, and examine the dependence of news-driven ETF jumps on market-index jumps.

"Identifying Monetary Policy Shocks with Large Language Models," *with Sen Zhang.* Working paper.
Abstract: We use large language models to extract Federal Reserve staff expectations from pre-FOMC briefing materials and construct new controls for monetary policy shock estimation. The resulting low-dimensional LLM features capture economically meaningful information while avoiding key limitations of high-dimensional dictionary sentiment measures, including overfitting and negation errors. Our LLM-based shocks closely track existing narrative monetary policy shocks and provide a scalable way to measure central-bank information from historical text.

"Honest Inference for High-Dimensional Linear Models," *with Dennis Lim, Pengjin Min, and Jonathan H W Tan.* Working paper.

Abstract: We propose a new inference procedure for testing multiple linear restrictions in high-dimensional linear regression models. Building on the desparsified LASSO framework of van de Geer, Buhlmann, Ritov, and Dezeure (2014), our approach accommodates a potentially diverging number of restrictions, general heteroskedasticity, and heavy-tailed covariates and errors. Under suitable regularity conditions, we establish the asymptotic validity of the proposed test, including asymptotically exact size control. Monte Carlo simulations demonstrate improved finite-sample size control relative to conventional homoskedastic and heteroskedasticity-robust Wald tests, particularly when the number of restrictions is large.

"A Fixed-*k* Bipower Jump Test," *with Jia Li, Qiyuan Li, and Andrew J. Patton.* Work-in-progress.
Abstract: We develop a jump test for Itô semimartingales observed at high frequency based on the ratio of untruncated realized variance to bipower variation within a block of k consecutive returns, where k is held fixed. Under infill-asymptotics, the limiting distribution of the proposed test is asymptotically pivotal under the null of no jumps, according to a coupling result inherited from the driving Brownian diffusion, and therefore delivers favorable statistical properties over short time windows. Monte Carlo experiments calibrated to empirical financial data show that the proposed test attains essentially nominal size for small k. The framework provides a single, tuning-free, block-localized price jump detector that plugs directly into the broader apparatus of fixed-k volatility inference in Bollerslev, Li, and Liao (2021) and the bipower jump test of Barndorff-Nielsen and Shephard (2006).

"Evaluating AI Forecasts on Future Sport Events," *with Jia Li and Andrew J. Patton.* Work-in-progress.
Abstract: We construct an ex-ante, timestamp-verified panel of one-day-ahead forecasts from frontier LLMs on live 2026 sports events. Following the econometric forecast-evaluation literature, we compare models using strictly proper scoring functions in the Bregman-loss tradition and test equal, superior, and conditional predictive ability. The evidence shows clear model separation in NBA forecasts, weaker discrimination in soccer, and informative self-reported confidence. The framework provides an auditable, continuously updating benchmark for evaluating LLM forecasts.

Computer Skills: AI (Claude Code, ChatGPT/Codex, and AI APIs), Python, R, MATLAB, *LaTeX*.

Languages: English (Fluent), Chinese (Native).