

Jesse Yu-Chieh Kuo

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Education

National Taiwan University

Taipei, Taiwan

B.B.A. in Information Management; GPA: 3.81 / 4.00

Sep. 2018 - Jun. 2023

- **Graduate-level Economics Courses:** Microeconomics, Econometrics, Bayesian and Network Econometrics, Computational Methods for Econometrics, Economic Analysis of Social Networks, Empirical Game Theory.
- **Graduate-level Business Courses:** Information Economics, Platform Strategy, Game-Theoretic Approach Marketing.
- **Computer Science Courses:** Text Mining (Graduate-level), Machine Learning (Graduate-level), Data Structure and Advanced Programming, The Design and Analysis of Algorithms, Database.
- **Mathematics Courses:** Advanced Statistics (Graduate-level), Convex Optimization (Graduate-level), Machine Learning Theory (Graduate-level), ODE/PDE, Operations Research.

Research

The University of Chicago Booth School of Business

Chicago, Illinois

Research Professional to Professor **Rimmy E. Tomy**

Jul. 2024 - Present

- **Data and Engineering:** Integrated and visualized 60+ million climate records; analyzed TB-scale mortgage data; constructed emotion measures using the dictionary-based and LLM-based approaches; identified article similarity using BERT-based models and sentence embeddings; applied NLP techniques and LLMs to audio and text data; identified key components using PCA; automated data processing pipeline; collated and updated the replication packages.
- **Causal Inference:** Estimated effects with event-study diff-in-diff for staggered adoption; verified parallel trends with pre-trend and placebo tests; non-parametric kernel regressions; narrative data analysis.
- **Project Involvement:** Banking on Trust: Supervisory Transparency and Depositor's Actions; Trust in Banks and Borrower Behavior: Evidence from Supervisory Actions and Local Information Quality; Perceptions and Credit Access; Social Capital and Enforcement in Digital Lending; Informing Auto Loan Pricing; Salvage Auto Auctions as a Source of Cross-Market Information Signals; Measuring the Economic Impact of Climate Change on the Informal Sector: A Narrative-Based Approach.

Behavior and Data Science Research Center, National Taiwan University

Research Assistant to Professor **Chih-Sheng Hsieh**

Jun. 2022 - Jun. 2024

- Analyzed the effects of major events and spillovers in the #MeToo movement by adopting West (2021) to calibrate normalized Google Trends time-series data and constructing a two-year panel dataset.
- Applied network analysis to examine suburbanization and rural labor performance in China, leveraging SQL to process a 200GB telecom dataset with tens of billions of mobile communication records.
- Estimated the impact of users' friendship network sizes, behaviors, and patterns on tariff plan choices, call durations, and mobile device selections, with extensions to business research applications.

Department of Economics, National Taiwan University

Research Assistant to Professor **Yu-Chang Chen**, **Hsin-Tien (Tiffany) Tsai**, and **Ming-Jen Lin**, in **CCL Lab**

Aug. 2023 - Jan. 2024

- Analyzed user behavior and purchase outcomes using data from a large e-commerce platform.
- Contributed to an extension of Jeziorski and Segal (2015) to estimate consumer impatience in online shopping.
- Reviewed literature and proposed empirical research designs to assess and enhance the allocation, utilization, and impact of government research funding.

Teaching

Operations Research

Senior Elective, 100+ students

Teaching Assistant to Professor **Ling-Chieh Kung** at National Taiwan University

Mar. 2022 - Jun. 2022

- Verified three assignments, two case studies, one writing guidance assignment, and the final exam; authored six corresponding solution sets with the rigorous mathematical explanations.
- Modularized and streamlined the filing and grading workflow by developing course-oriented \LaTeX class files and documents; documented core responsibilities and guidance for future TAs in a comprehensive handover file.
- Graded 300+ assignments and 100+ exam papers; managed grade records for 100+ enrolled students.

Other

Scholarship

- Sun Chen Scholarship, 2023.

Service

- Facilitator, Department Expo at NTU Azalea Festival, 2021-2023 – promoted departmental programs, academic pathways, and career outlooks to visiting high school students to support early engagement with higher education.
- Facilitator, Computational Thinking and Programming Design Camp, Department of Information Management (NTUIM), 2021 – guided rural school students in learning foundational programming, logic thinking, and problem-solving.

Work Experience

- Private tutor, 2018-2024 – taught 40+ students, from elementary school to college students.

Languages

- **Programming Languages:** Advanced in Python (web scraping, large language models, natural language processing, AWS, etc.), Stata and R (econometrics analysis), SQL and SAS (large-scale data processing), Git, Slurm, \LaTeX .
- **Natural Languages:** English, Mandarin Chinese, Taiwanese.