

GUO (JERRY) CHENG

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EDUCATION

University of Chicago

Sep. 2022 – Jun. 2024

MA in Computational Social Science - Economics Track

Chicago, Illinois, USA

- **CGPA:** 3.90/4.00
- **Honors:** UChicago ECMA Research Scholarships 2022/23, 2023/24
- **Courses:** Real Analysis - Accelerated (4.00/4.00), Computational Modeling for Economics (4.00/4.00), Introduction to Empirical Analysis (3.70/4.00), Advanced Microeconomics for Public Policy (4.00/4.00), Economic Development and Policy (4.00/4.00), Macroeconomic Crises (4.00/4.00), Social Interactions and Inequality (4.00/4.00)

City University of Hong Kong

Sep. 2018 – Jun. 2022

BBA in Finance, Minors in Computer Science and Mathematics, with First Class Honors

Hong Kong SAR, China

- **CGPA:** 4.00/4.30, ranked 1st in Finance Major
- **Honors:** Hong Kong SAR Government Scholarship for Outstanding Performance 2019/20, 2020/21, 2021/22
- **Courses:** Intermediate Macroeconomics (4.30/4.30), Principles of Econometrics (4.30/4.30), Financial Econometrics (4.30/4.30), International Finance and Banking (4.30/4.30), Probability and Statistics (4.30/4.30), Introduction to Optimization (4.30/4.30), Machine Learning (4.00/4.30), Multivariable Calculus (4.00/4.30), Linear Algebra (4.00/4.30)

Boston University

May 2021 – Jul. 2021

Summer Exchange

Boston, Massachusetts, USA

- **Courses:** Economics of Information (4.00/4.00), Strategy and Policy (4.00/4.00)

PUBLICATION

“On the Performance-based Legitimacy of Financial Action Task Force: A Quantitative Exploration” with Bo Wen *Regulation & Governance* (2025). Online first (<https://doi.org/10.1111/rego.70088>). [SSCI-listed: Law, 5/434; Political Science, 26/322; Public Administration, 10/90]

WORK IN PROGRESS

“Neoclassical Growth Revisited: Why Are Policy Functions Myopic in Closed-Form?” with Sergio Salas

Master Thesis: “Fertility Outcomes and Preferences in China: A Two-way Causal Analysis” supervised by Christina Brown

RESEARCH AND TEACHING ASSISTANTSHIP

Predoctoral Researcher

Oct. 2024 – Present

For Hanwei Huang (*CityUHK*) and his coauthors Kalina Manova (*UCL*), Daniel Yi Xu (*Duke*), Gianmarco I.P. Ottaviano (*Bocconi*), Stephen Yeaple (*Penn State*), Vivian Yue (*Emory*) et al.

- Collaborated on the China e-commerce logistics project, developing empirical strategies to test theoretical propositions on pricing patterns and route-level network spillovers; applied advanced algorithms (Bounding, Simulated Annealing with parallel multi-starts) to solve high-dimensional combinatorial discrete choice problems (CDCPs) at the route level.
- Contributed to the project on a sufficient statistics approach for Ricardian comparative advantage in trade (paper draft: “**Many Models, One Formula: A Sufficient Statistics Approach to Ricardian Comparative Advantage**”); implemented matrix decomposition in MATLAB to explain export patterns via geography, factor prices, and technology; analyzed counterfactual trade effects from varying forces.
- Supported research on China’s processing and ordinary trade patterns; numerically solved dynamic continuous-time macroeconomic model incorporating quality improvements from processing trade; fitted model to real data to explain declining processing trade share since 2000.
- Aided in R&R at *International Economic Review* (IER) (paper draft: “**Accounting for the Evolution of China’s Production and Trade Patterns**”); simulated counterfactuals from changes in Ricardian/absolute advantages, iceberg trade costs, labor force, saving rates, and current accounts.

Part-time Research Assistant

Aug. 2024 – Present

For David Y. Yang (*Harvard*)

Department of Economics

- Contributed to trade and international power project (NBER draft: “**International Power**”); compiled a bilateral sovereign debt database (136 debtors, 303 creditors, 571 indicators over 60 years) using Python and SQL; developed debt exposure indices as proxies for international influence.

Summer-term Research Assistant*At MiiE Lab (UChicago)*

- Supported large-scale empirical study on Indian education policies using econometric tools; refined and debugged STATA code for IV, DID, and RDD specifications via UChicago Research Computing Center servers; managed project GitHub repository.

Jun. 2023 – Sep. 2023*Harris School of Public Policy***Undergraduate Research Assistant***For Hanwei Huang, Shenje Hsieh, Qianqian Huang et al. (CityUHK)*

- Conducted topic modeling with Gensim LDA on Chinese job postings to assess COVID-19's macro-level impact on job designs; web-scraped millions of records in under 40 hours from Chinese Customs website; implemented Two-way Functional Hazards Model in MATLAB for hospital emergency department operations; developed Azure AI chatbots for behavioral experiments.

Sep. 2020 – Jun. 2022*College of Business***Teaching Assistant***For Sergio Salas (UChicago) in Introduction to Monetary and Fiscal Policies*

- Developed exam questions and solutions; graded assessments; held office hours to resolve student queries on monetary and fiscal policy concepts.

Sep. 2023 – Mar. 2024*Department of Economics***REFERENCES****Hanwei Huang****Assistant Professor***Department of Economics and Finance, City University of Hong Kong*

- ✉ hhuang54@cityu.edu.hk ☎ +852 3442-5840 🌐 Website
- Predoctoral RA supervisor

Kalina Manova**Professor***Department of Economics, University College London*

- ✉ k.manova@ucl.ac.uk 🌐 Website
- Predoctoral RA project collaborator

David Y. Yang**Yvonne P.L. Lui Professor***Department of Economics, Harvard University*

- ✉ davidyang@fas.harvard.edu 🌐 Website
- Part-time RA supervisor

Sergio Salas**Associate Instructional Professor***Kenneth C. Griffin Department of Economics, University of Chicago*

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- Coauthor and former teacher

Neele Balke**Research Assistant Professor***Kenneth C. Griffin Department of Economics, University of Chicago*

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- Former teacher

Bo Wen**Associate Professor***Department of Government and Public Administration, University of Macau*

- ✉ bowen@um.edu.mo 🌐 Website
- Coauthor

OTHER SCHOLARSHIPS*CMB Wing Lung Bank Scholarship**2020/21**Hong Kong SAR Government Reaching Out Awards**2020/21***LANGUAGES, TESTS AND SKILLS****Languages:** English - Advanced (IELTS: 8); Mandarin - Native; Cantonese - Conversational**GRE:** Quantitative 170/170, Verbal 159/170, Analytical Writing 3.5/6.0**Programming Languages:** STATA, R, MATLAB, Python, Julia, SQL, LaTeX, HTML/CSS, Javascript**Other Softwares:** QGIS, GeoDa, ArcGIS