

Chen Gao

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Education

Peking University

Beijing, China

B.A. in Economics with Honors and Distinction

Sep 2022 — June 2026

- **Cumulative GPA:** 3.873 / 4.0
- **Honors & Awards:** Outstanding Graduate (2026), Outstanding Undergraduate Thesis (2026), Ho-Mou Wu Memorial Scholarship (2026), Outstanding Undergraduate Research Project (2024, funded), ICBC STAR Scholarship, Award for Academic Excellence, The Third Prize of Peking University Scholarship $\times 2$, Award for Contribution in Student Organizations, Merit Student.
- **Relevant Coursework:** Intermediate Micro/Macro/Econometrics (Honors), Computational Economics (Grad Level) (4.0 / 4.0), Theory of Dynamic Optimization, International Finance, Game Theory, Advanced Mathematics (3.95 & 4.0 / 4.0), Linear Algebra, Mathematical Statistics (3.95 / 4.0), Probability Theory (3.95 / 4.0), Industrial Organization Theory (Honor), Data Analysis and Econometric Programming (3.98 / 4.0)

University of California, Berkeley

Berkeley, CA

Visiting Undergraduate

Jan 2025 — May 2025

- **Cumulative GPA:** 4.0 / 4.0
- **Relevant Coursework:** Advanced Macroeconomics (Grad Level) (A+), Real Analysis (A), Numerical Analysis I & II (A)

Working Papers

Forecasting Inflation with Microdata: An Adaptive Machine Learning Approach Jan 2025 — Present

- With Catherine Chen, Jonathon Hazell, Lihua Lei, and Chen Lian
- A recent version can be found [here](#)
- **Presented at:** Reykjavík Economic Conference, Bank of England, Stanford Institute for Theoretical Economics (SITE), NBER Summer Institute (2026), UC Berkeley, LSE, Stanford, and Cowles Foundation.

Research Experience

Research Assistant

April 2025 — Present

PI: Chen Lian

Berkeley, CA

- **Project: “Why do Workers Dislike Inflation? Wage Erosion and Conflict Costs”**
 - Designed and implemented a numerically stable algorithm and associated solvers for the project’s general equilibrium model.
 - Reviewed and refactored Python code for the replication package, improving code readability and ensuring the reproducibility of research findings.
 - Authored detailed documentation for the codebase to facilitate understanding and future development.
- **Project: Manuscript Preparation & Proofreading**
 - Proofread several pre-publication manuscripts for rigor of mathematical derivations, grammatical accuracy, clarity, and formatting. Papers included:
 - “Why do Workers Dislike Inflation? Wage Erosion and Conflict Costs” (PIs: Chen Lian, Joao Guerreiro, Jonathon Hazell and Christina Patterson)

- “Borrowing Constraints, Markups, and Misallocation” (PIs: Chen Lian, Huiyu Li, Yueran Ma and Emily Martell)
- “Deficits and Inflation: HANK meets FTPL” (PIs: Chen Lian, George-Marios Angeletos and Christian Wolf)
- “Beliefs about the Economy are Excessively Sensitive to Household-level Shocks: Evidence from Linked Survey and Administrative Data” (PIs: Chen Lian, Dmitry Taubinsky, Luigi Butera and Matteo Saccarola)

Research Assistant

March 2025 — June 2025

PI: Serguei Maliar

Santa Clara, CA

- **Project: “Using Reinforcement Learning to Solve Heterogeneous Agent Models”**
 - Implemented and tested K-Nearest Neighbors (KNN) based reinforcement learning algorithms in Python to solve the classic Krusell-Smith heterogeneous agent model.

Research Assistant

April 2023 — July 2023

Author: Han Shi (PhD Thesis), PI: Bo Li

Beijing, China

- **Project: “Intergovernmental Fiscal Relations, Public Resource Allocation and Coordinated Regional Development in China - A Perspective Based on Spatial Political Economy”**
 - Developed and implemented Nash equilibrium solving algorithms in MATLAB to analyze spatial political economy models.
 - Executed large-scale simulations on a high-performance computing (HPC) platform to obtain numerical results.

Teaching Assistant Experiences

Intermediate Macroeconomics (Honors)

Fall 2024

Instructor: Bo Zhao, National School of Development, Peking University

Beijing, China

- Led weekly discussion sections.
- Supplemented lecture notes with relevant mathematical and economic concepts.
- Co-authored the midterm and final exams and graded problem sets.

Computational Economics (Grad Level)

Spring 2026

Instructor: Bo Li, School of Economics, Peking University

Beijing, China

- Taught numerical methods for solving macroeconomic models in Python with JAX.
- Prepared lecture slides and delivered in-class sessions.

Student Affairs

Deputy Director, Cultural and Sports Department of Peking University Youth League Committee Jan 2025 — Jan 2026

Assistant Secretary-General, Peking University Student Art Troupe

July 2023 — June 2024

Skills

- **Scientific Computing:** Fortran with OpenMP, Python with Jax/Numba, Matlab, Julia, Stata, C++ (Former competitive programmer)
- **Markup Languages:** LaTeX, Typst
- **Languages:** Mandarin (Native), English (Fluent)