

# JINCI LIU

✉ [jinci.liu@iies.su.se](mailto:jinci.liu@iies.su.se) | 🌐 <https://jinciliu.github.io>

## ADDRESS

Institute for International Economic Studies (IIES)  
Stockholm University  
106 91 Stockholm

## PERSONAL

刘金词  
Born in 1997

## EDUCATION

<b>Institute for International Economic Studies, Stockholm University</b> PhD in Economics	Expected 2026
<b>UC Berkeley Haas School of Business</b> Visiting Student, Host: Carolyn Stein	2024
<b>National University of Singapore</b> Master by Research in Economics, 5.0/5.0	2018 – 2020
<b>The Chinese University of Hong Kong</b> B.Soc.Sc in Economics, First Class Honors	2014 – 2018

## CURRENT RESEARCH INTERESTS

**Research Fields:** Labor, Personnel, Organizational, and Digital Economics

**Methodologies:** Causal Inference, Structural Modeling, Machine Learning, and Large Language Models

## JOB MARKET PAPER

### [Managing by Feedback](#)

*Abstract:* This paper studies how managers influence worker productivity through feedback. Using data from GitHub and LinkedIn, I analyze over 200 million pieces of feedback during code reviews across 1.7 million software teams. I apply large language models to classify feedback by tone (toxicity, positivity) and informational content (constructiveness). I exploit random reviewer assignments to estimate the causal effects of feedback on developer productivity and retention. Toxic feedback reduces future code quantity and quality and lowers developer retention within the firm, whereas non-toxic criticism has no such detrimental effects. Positive feedback increases productivity, retention, and spillovers. Constructive feedback does not affect future code quantity but lowers quality, as revisions to reviewed code crowd out careful new code development. Finally, I show that feedback explains a sizable share of variation in manager quality, measured by value-added to worker productivity. Overall, this paper shows that feedback tone and information shape worker productivity and retention, offering new insights on effective management.

## WORKING PAPERS

### [How does the Division of Labor Affect Team Productivity? Evidence from GitHub](#)

*Abstract:* Does the division of labor increase team productivity? This paper provides new evidence challenging the conventional view that specialization increases productivity. I create a panel dataset from GitHub, covering 35 million task allocations across 64,400 software development teams from 2017 to 2023. My result shows a negative relationship between team specialization and various productivity metrics, including output quality, quantity, and user issue resolution time. To identify causal effects, I exploit GitHub's introduction of an automatic task assignment feature, which evenly distributes tasks across team members. Using a matched difference-in-differences design, I find that adoption of this feature reduces specialization and leads to significant gains in productivity: output quality rises by 4%, output quantity by 21%. Team communication also increases by 13%, suggesting that improved interaction and knowledge exchange are a key mechanism behind these productivity gains. These findings highlight a trade-off in non-routine production: while specialization increases task-specific human capital, it

impedes cross-task knowledge spillovers that are essential for innovation.

[Political Preferences and Migration Decisions of College-Educated Workers](#) (with Mitch Downey) *R&R: AEJ Applied Economics*

*Abstract:* We study the consequences of political polarization along educational lines in the United States. Descriptively, we show that college graduates are now well to the left of non-college voters on economic and social issues and much more so than 15 years ago. We then estimate the causal effect of a Republican governor on college graduates' inter-state migration rates, finding that conservative governance substantially reduces the inflow of college-educated workers. Finally, we analyze a structural model of migration that quantifies the implications of plausible changes in political control for cross-state spillovers and college/non-college earnings inequality.

[The Demographic Impact of Adverse Rainfall in Rural China](#) (with Wenjie Tian and Kang Zhou) *R&R: Journal of Economic Behavior & Organization*

*Abstract:* Using high-frequency monthly precipitation data, we investigate the demographic consequences of extreme rainfall variability, comprising extreme droughts and heavy rainfall, in rural China. We find that both forms of extreme weather increased fertility rates, particularly for male births, between 1990 and 1999. More than a decade later, individuals who experienced extreme weather conditions, especially heavy rainfall, in utero showed lower educational attainment compared to their unexposed counterparts. Notably, we identified the second trimester of pregnancy as the critical period, with exposure during this period exerting the most significant negative impact on adult educational outcomes. Analyzing the mechanism, we find that extreme weather events reduce household incomes and increase child mortality. These findings highlight the enduring demographic impacts of environmental disasters.

## WORK IN PROGRESS

---

- **Timely Feedback and Communication** (with Huen Tat Au-Yeung) *Field experiment, ongoing*
- **Power within Teams: How Decision Power Affects Productivity**
- **The Evolution of Jobs and The Rise of Women: 1939 – 2022** (with Arash Nekoei and Jósef Sigurdsson)
- **Can AI feedback motivate as human feedback?**

## AWARDS & GRANTS

---

<b>Google</b> Research Credit (EUR 3,000)	2023 – 2025
<b>Carl Mannerfelt Foundation</b> Research & Travel Grant (approx. USD 6,310)	2022 – 2024
<b>Institute for Evaluation of Labour Market and Education Policy (IFAU)</b> Research Grant (approx. USD 82,000)	2023
<b>Jan Wallander and Tom Hedelius Stiftelse</b> Research Stipend (approx. USD 53,450)	2021
<b>National University of Singapore</b> Admission Scholarship	2018
<b>The Chinese University of Hong Kong</b> Excellent Research Paper Award of CUHK–Mirrlees Award	2018

## TEACHING

---

Applied Empirical Economics I, Stockholm University PhD Economics	2022 – 2023
Econometric Modeling and Applications II, National University of Singapore PhD Economics	2020
Microeconomic Analysis I, National University of Singapore Undergraduate Economics	2020

## PRESENTATIONS

---

**2025:** 1st Asian Conference on OrgEcon, IIES BrownBag, SOFI BrownBag, Hong Kong Labor Symposium, PSE-CEPR Policy Forum, CEPR Joint Workshop on IMO & ESF, SUDSWEC Conference (SSE), National PhD workshop in Finance (Swedish House of Finance)

**2024:** UC Berkeley Labor Lunch, UC Berkeley IO Workshop, UC Berkeley IO Therapy

**2023:** ENTER Jamboree (University of Mannheim), IIES BrownBag, Zhejiang University

**2022:** Stockholm University *Labor Fika*

**2018:** Trade and Industry Department HKSAR

## PROFESSIONAL SERVICE

---

**Referee Service:** Academy of Management Annual Conference

**Departmental Service:** Co-organizer of the seminar series *Labor Fika* 2022 – 2024

Student representative, Working Environment and Equal Opportunities 2022 – 2023

## RESEARCH EXPERIENCE

---

<b>Institute for International Economic Studies</b> Research Assistant	2020 – 2022
---	-------------

<b>National University of Singapore</b> Research Assistant for Bingjing Li	2018 – 2020
---	-------------

<b>The Chinese University of Hong Kong</b> Research Assistant for Ng Ka Ho and Hsieh Chih Shing	2017 – 2018
--	-------------

## OTHER EMPLOYMENT

---

<b>Real Estate Analytics (8PROP), Singapore</b> Data Scientist Intern	2019 – 2020
--	-------------

<b>Hong Kong Trade Development Council</b> Summer Analyst	2017
--	------

## COMPUTER SKILLS & LANGUAGES

---

Computing: Stata, Python, R,  $\LaTeX$ , Git, Matlab, SQL

Languages: Mandarin (Native), English (Fluent), Cantonese (Fluent)

Personnel: Piano (level 10)

## REFERENCES

---

**Arash Nekoei**

[arash.nekoei@iies.su.se](mailto:arash.nekoei@iies.su.se)

Associate Professor of Economics  
Institute for International Economic Studies  
Stockholm University

**Mitch Downey**

[mitch.downey@iies.su.se](mailto:mitch.downey@iies.su.se)

Assistant Professor  
Institute for International Economic Studies  
Stockholm University

**Jósef Sigurdsson**  
Associate Professor  
Department of Economics  
Stockholm University

[josef.sigurdsson@su.se](mailto:josef.sigurdsson@su.se)