

# HANNAH BAE

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## Education

### University of Rochester

*Ph.D. in Economics (in progress)*

Sept 2024 -

Rochester, NY

### Sungkyunkwan University (SKKU)

*M.A. in Economics*

Overall GPA: 4.43/4.5 (4.0/4.0)

Mar 2022 - Aug 2024

Seoul, Republic of Korea

### Sungkyunkwan University (SKKU)

*B.A. in Economics, Magna Cum Laude*

Overall GPA: 4.15/4.5 (3.85/4.0)

Economics GPA: 4.17/4.5 (3.86/4.0), Math GPA: 4.21/4.5 (4.0/4.0)

Mar 2017 - Feb 2022

Seoul, Republic of Korea

## Fields of Interest

Macroeconomics, International Trade, International Finance

## Master's Thesis

**Welfare implications of a DSGE model with multiple financial assets** (*in progress*)

Advisor: Prof. Sunghyun Henry Kim (Sungkyunkwan University)

## Research Experience

**Woori Financial Research Institute** | *Research Intern of Global Macroeconomy Department* Apr 2023 - Jul 2023

- Collected and monitored banking and financial market data using Bloomberg and CEIC
- Wrote daily reports for two months to alert investors of the Silicon Valley Bank crisis and potential harms
- Supported analysts in economic forecasting and strategy building for the CEO of Korea's largest financial group

**Korea Institute of Finance** | *Research Assistant to Prof. Dooyeon Cho*

Sept 2022 - Dec 2022

Project: Effects of Economic Policy Uncertainty Shocks on the Macroeconomy and Financial Markets

- Organized data of Korea's macroeconomic and financial market variables
- Analyzed and drafted key observations and interpretations of impulse response functions of financial market variables to an economic policy uncertainty shock

**Sungkyun AI Research Institute** | *Research Assistant to (Former) Prof. Joonhee Choi*

May 2022 - Aug 2022

Project: Forecasting and Analyzing Macroeconomic Variables using Random Forests

- Developed code to collect macroeconomic regional data of 50 states (29 variables) using FRED API
- Designed and created machine learning models (Random Forest, XGBoost, Adaboost, Gradient Boosting) using Python to forecast the regional GDP of 50 states
- Collaborated with graduate students from CS dept to minimize errors and optimize parameters by hyperparameter tuning

## Working Experience and Projects

**Bank of Korea Knowledge Partnership Program with Bank of Mongolia**

May 2023 – Present

(BOK-KPP) | *Organizing Assistant to Prof. Seungduck Lee*

- Organized total of four meetings held in Seoul, Korea and Ulaanbaatar, Mongolia with the aim of enhancing efficiency of the foreign exchange market of Mongolia
- Managed protocol for high-ranking officials including the Governor of the Bank of Mongolia

**Chosun-ilbo** | *Project News Reporter*

Mar 2019 – Aug 2019

- Conducted interviews with freelancers and academic professionals for Future 100 Initiative
- Wrote newspaper articles about the gig-economy for Korea's #1 daily circulation newspaper
  - \* Bae, H., Kim, M. (2019, Jul 19) Unemployment Rate Dips Below 1% in San Francisco, Flexible 'Gig Economy' for Success. Chosun-ilbo. [link to story \(Korean\)](#)
  - \* Bae, H., Kim, M. (2019, Jul 19) Balancing Economic Development and Protection of Worker Rights : SF City Takes Initiative in Labor Education. Chosun-ilbo. [link to story \(Korean\)](#)

## Presentations

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### Geopolitical Risk and Fiscal Multipliers: Evidence from Historical Panel Data

Presented at the 2023 WEAI 17th International Conference

### Welfare implications of a DSGE model with multiple financial assets

Presented at the 2024 WEAI 99th Annual Conference

## Awards

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### Research Matters 2nd Prize, SKKU

Fall 2022

- Paper title: Geopolitical Risk and Fiscal Multipliers: Evidence from Historical Panel Data
- Awarded 2nd prize among 67 academic papers

### Outstanding TA Award, SKKU

Spring 2022

### Korea Intervarsity Debate Association Pro-Am Championships

Jan 2019

- Grand Finalist

### 23rd Korea Intervarsity Debate National Championships (KNC)

Jul 2018

- Quarterfinalist (Korean Council on Foreign Relations Award)

## Merit-Based Scholarships

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### Graduate Excellence Scholarship, SKKU College of Economics

Spring 2022 - Present

- Admission with highest distinction, full tuition granted for four semesters

### Brain Korea 21 Fellow, National Research Foundation of Korea

Spring 2022 - Present

### Undergraduate Research Program Mentoring Scholarship, SKKU

Fall 2022

### Connected Track Scholarship, SKKU

Fall 2021

### Academic Excellence Scholarship, SKKU College of Economics

Fall 2017, Fall 2020

## Teaching Assistance

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\*Courses taught in English

### International Monetary Economics\* (Undergraduate)

Fall 2023

### Macroeconomics II (Graduate)

Spring 2023

### Big Data Analytics in Macroeconomics (Graduate)

Fall 2022

### International Finance\* (Undergraduate)

Fall 2022

### Money and Banking\* (Undergraduate) *SKKU Outstanding TA Award*

Spring 2022

## Other Activities

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### Becoming Economists

Mar 2021 - Feb 2022

- Participated in weekly seminars as a presenter and a discussant

### Sungkyun English Debate Association

Sept 2017 – Feb 2020

- Participated in weekly debate sessions and debate tournaments, representing SKKU
- Served as the team captain during spring season of 2019

### Good Neighbors Hope School

Jan 2018 – Feb 2018

- Volunteered as a winter break camp teacher for immigrant children in the rural area of Seoul

### Hope International School (Phnom Penh, Cambodia)

Dec 2016 – Jan 2017

- Organized and taught at a winter science camp for elementary school students

## Technical Skills

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**Languages:** Korean (native), English (bilingual), Mandarin (basic)

**Computer Skills:** R, Python, Stata, Matlab, Latex

Updated May 2025