

## GwanHyeon (James) Koh

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### EDUCATION

#### The University of Chicago

*Bachelor of Science in Mathematics, Specialization in Economics*

Chicago, IL  
December 2022

### EXPERIENCE

#### Republic of Korea Army

*Sergeant*

South Korea  
September 2022 - March 2024

- Compiled firing data on the computer, often in high-pressure situations, for the artillery while serving as an FDC (Fire Direction Center) in the 30<sup>th</sup> Armored Brigade
- Cross-validated computer data by calculating artillery trajectories manually through plotting maps and computing formulas involving factors such as atmospheric conditions, gunpowder temperature, and altitude difference
- Maintained and updated intelligence on both allied and hostile positions in order to respond accurately and quickly in case of hostile fire
- Coordinated communications by relaying orders and reports between the commanding officer and individual batteries/teams

### ACTIVITIES

#### Piano

September 2019 - June 2022, Chicago, IL

- Participated in the Piano Program and Chamber Music Program by playing in recitals and masterclasses
- Volunteered through the South Side Free Music Program by providing free lessons to local children

### PROJECTS

#### R, STATA

Chicago, IL

- Conducted research into opera libretti by API scraping, data cleaning, then performing sentiment analysis
- Analyzed sample data sets on static labor supply and unobserved heterogeneity utilizing methods such as probit, MLE estimation, and the Heckman correction
- Replicated and extended economics papers through techniques such as bootstrapping, heteroskedasticity-robust standard errors, instrumental variables, and regression discontinuity design

#### Python

Sejong, South Korea

- Scraped HTML from a map of the Seoul Metropolitan Subway and analyzed traffic data to put together a visualization of the subway system as a graph
- Cleaned and analyzed survey data on the differences in perception of AI by over 400 students and professionals between Vietnam and South Korea for a project at Hongik University

### SKILLS

**Computer:** Proficient in Power BI, Tableau, R, STATA, SQL, Python, MATLAB