

# Byunghun Hahn

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<https://byunghunhahn.github.io>

## EDUCATION

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<b>Seoul National University</b> Master's Student, Department of Economics GPA : 4.11/4.30 (3.92/4.00)	2024–Present
<b>Seoul National University</b> B.A. in Economics, <i>Summa Cum Laude</i> GPA : 4.09/4.30 (3.89/4.00)	2018–2024 (Military Service: 2020–2021)

## HONORS AND FELLOWSHIPS

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2025 Korea Foundation for Advanced Studies (KFAS) Overseas PhD Scholarship

– Awarded to only 2–3 candidates in economics across Korea each year.

2024 Undergraduate Independent Study Award, Seoul National University

– Evaluating the performance of different high school types: Based on the change of Korean University Entrance System

2023 Academic Excellence Scholarship, Seoul National University

2016 Hanseong Nobel Young Talent Scholarship, Hanseong Sonjaehan Scholarship

– Awarded to only 30 candidates in social sciences among Korean high school students.

## RESEARCH

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**[1] Rationality-Based Preference Aggregation** (with Syngjoo Choi, Booyuel Kim, Minseon Park, Yoonsoo Park, Euncheol Shin)

We examine how individual rationality shapes group decisions using large-scale experiments with randomly assigned pairs. More rational individuals consistently exert greater bargaining power, improving group decision quality, especially when communication is easier.

**[2] Safe or Out? Biased Decisions from Human–Machine Collaboration** [Link](#)

Using professional baseball data, we show that introducing video-based decision support unintentionally increased home-team bias. Our model explains this pattern through asymmetric incentives: umpires face greater reputational costs when decisions against the home team are overturned. The results highlight that human–machine collaboration can distort decisions under imperfect system design.

**[3] Early Graduation from Juvenile Crime** [Link](#)

We develop a human-capital model predicting that juveniles reduce criminal activity as they anticipate harsher adult penalties. Using policy changes in four U.S. states, we show that youths nearing the age of majority commit fewer crimes than adjacent age groups. The results support the model’s prediction of pre-emptive behavioral adjustment.

**[4] Evaluating the performance of different high school types: Based on the change of Korean University Entrance System** (Written in Korean, Awarded Undergraduate Independent Study 2024 at SNU)

We examine how increasing the weight of the national college entrance exam affected admission patterns at SNU. Acceptance rates rose sharply for high schools in affluent, highly competitive districts in Seoul, while we find no comparable increases for elite private schools or non-metropolitan schools.

## [5] Calculating the Difficulty of Platform Change

We analyze how network structure affects the adoption of a new platform. Adoption becomes easier when interactions are concentrated within small, localized clusters or when influential individuals exist. Our model highlights how network topology shapes diffusion dynamics.

## [6] Designing an Efficient Course Registration System through Auction Mechanisms (Written in Korean, Undergraduate Thesis)

Our theoretical analysis examines the redesigned course registration system at Seoul National University. The system incorporates elements of the simultaneous ascending auction. Allowing students to adjust their demand over time improves allocation efficiency, outperforming both first come first served and bidding systems.

## RA EXPERIENCE

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[1] **Identity and Ideology in the Boardroom** (Barbara Biasi, Minseon Park, John Singleton, Seth Zimmerman)  
October 2025–Present, University of Michigan

[2] **Rationality Extension, Preference Aggregation, and Pareto Efficiency of Group Decision under Risk**  
(Syngjoo Choi, Booyuel Kim, Minseon Park, Yoonsoo Park, Euncheol Shin)  
February 2025–Present, Seoul National University

[3] **The Impact of Inter-Village Competition on Collective Action: Experimental Evidence from Myanmar and Cambodia** (Syngjoo Choi, Yoonjei Michell Dong, Booyuel Kim, Taejong Kim, Hee-Seung Yang)  
September 2024–Present, Seoul National University

[4] **The Impacts of Negative Income Tax on Labor Market and Health Outcomes: Evidence from a Large Scale Field Experiment** (Hyuncheol Bryant Kim, Minki Kim, Jungmin Lee, Seung-hun Lee, Sangyoon Park)  
June 2024–Present, Social Sciences Korea

[5] **The Impact of Idea-Creating Classes on the Development of Creativity** (Sejik Kim, Syngjoo Choi)  
January 2023–May 2024, Seoul National University

## TA EXPERIENCE

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[1] Behavioral Economics (2025 Fall, Prof. Syngjoo Choi)

[2] Microeconomics (2025 Spring, Prof. Syngjoo Choi)

[3] Dynamic Macroeconomics (2024 Fall, Prof. Sejik Kim)

## COMPUTER SKILLS

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[1] Python (Econometric Analyses, Web Crawling, Machine Learning, Simulation)

[2] Stata (Econometric Analyses)

[3] R (Econometric Analyses, Visualization)

[4] MATLAB (Numerical Simulation)

## LANGUAGE SKILLS

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English (Fluent), Korean (Native)

TOEFL : 110 Reading (28) Listening (28) Speaking (26) Writing (28)

GRE : Verbal (158) Quant (170) Writing (4.0)

## PRESENTATIONS

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Seoul National University, Applied Micro Brown Bag

## **OTHER EXPERIENCE**

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### **Sergeant, Korean Army (3rd Armored Brigade)**

2020–2021

- Graduated as valedictorian, Army Administrative School
- Selected as one of five members of the Korean Army Reform Committee
- Represented the committee as the sole presenter at the Three-Star General Meeting