

EUNCHEOL SHIN

Assistant Professor
College of Business
Korea Advanced Institute of Science and Technology
Email: eshin.econ@kaist.ac.kr
Webpage: <https://sites.google.com/site/euncheolshin00/>

EDUCATION

Ph.D. in the Social Sciences, California Institute of Technology, 2016
Committee: Leeat Yariv (Chair), Federico Echenique, Matthew Shum, Matthew Elliott

B.S. in Mathematics and B.A. in Economics, Yonsei University, 2009
Graduated with *Highest Honors (Summa Cum Laude)*
Ranked 1st in the Department of Mathematics
Completed *Advanced Program in Mathematics*
Military Service (South Korea): 2004 – 2007

ACADEMIC APPOINTMENTS

KAIST, College of Business, Assistant Professor, 2018 – Present

Kyung Hee University, Department of Economics, Assistant Professor, 2016 – 2018

OTHER APPOINTMENTS

Korea Development Institute, Department of Competition Policy, Research Fellow, 2016

RESEARCH INTERESTS

Microeconomic Theory, Experimental Economics, Political Economy, and Social Networks

PUBLICATIONS AND FORTHCOMING PAPERS

1. “**A Model of Pre-Electoral Coalition Formation**,” 2019, *Games and Economic Behavior* Vol 118:463–485.
2. “**Guide to Effective Retirement Pension Choices: An Experimental Design**,” joint with Seura Ha, Duk Gyoo Kim, Sang-Hyun Kim, 2019, *Journal of Financial Regulation and Supervision* Vol 6(2): 79–141.
3. “**An Economic Model of Friendship and Enmity for Measuring Social Balance on Networks**,” joint with Kyu-Min Lee and Seungil You, 2017, *Physica A* Vol 488:205–215.

4. “**Monopoly Pricing and Diffusion of Social Network Goods,**” 2017, *Games and Economic Behavior* Vol 102:162–178.
5. “**How Food Controls Aggression in Drosophila,**” joint with DJ Anderson, E Eyjólfssdóttir, RS Lim, and P Perona (alphabetical order), 2014, *PLoS ONE* 9(8): e105626.

WORKING PAPERS

1. Social Network Formation and Strategic Interaction in Large Networks. - *R&R at Mathematical Social Sciences*
2. Efficient Energy Consumption: Personalized Digital Nudge for Removing Perception Bias (joint with Daegon Cho and Miyeon Jung). - *R&R at Production and Operations Management*
3. Collective Proofreading and the Optimal Voting Rule (joint with Jinhyuk Lee and Duk Gyoo Kim). - *Submitted*
4. The Value of Friendship (joint with Syngjoo Choi, Booyuel Kim, Eungik Lee, and Yoonsoo Park).
5. Influencing the Influencers in Networks (joint with Daeyoung Jeong).
6. Network Bottleneck and Speed of Learning (joint with Jin Huang and Kyu-Min Lee). - *Under revision*
7. Rationality and Preference Aggregation of Group Decision under Risk (joint with Syngjoo Choi, Booyuel Kim, Minseon Park, and Yoonsoo Park).
8. A Theory of Electoral Fraud and Voter Turnout (joint with Kirill Pogorelskiy and Kota Saito).

TEACHING INTERESTS AND EXPERIENCE

College of Business, Korea Advanced Institute of Science and Technology, 2018 – Present
 Advanced Business Analytics: deep learning, causal inference, and experimental design
 Economics of networks and platform business: social network theory and two-sided markets
 Energy and environmental economics: economics of externalities and electricity market design
 Mathematics for business and economics: basic real analysis and economic applications
 Microeconomics and the environment: principles of microeconomics, externalities, etc

Department of Economics, Kyung Hee University, 2016 – 2018
 Microeconomics: consumer and producer theory, game theory, and social choice
 Mathematical economics: linear algebra and revealed preference theory with experiments
 Environmental economics: theoretical analysis, experiments, and politics (PBL class)
 Labor economics: search and matching, bargaining, and difference-in-differences analysis
 Introduction to statistics: probability theory and statistical inference
 Mathematics for economics: calculus, ordinary differential equations, and applications

Kyung Hee High School, 2017 – Present
 Experimental economics, philosophy of science, and nudging in the real world (2018)

Basic game theory and experimental economics (2017)

HSS Graduate Student Math Camp Lecturer, California Institute of Technology, 2011–13, 2015

Teaching Assistant, California Institute of Technology, 2011–16

Organization Design (or Contract Theory), 2014

Game Theory, 2012, 2014, 2016

Law and Economics, 2015

Human Evolution, 2012

ADVISING

1. M.S. in Green Business and Policy: Jinha Park

2. M.S. in Management Engineering: Jonghyun Park, Yerim Lee

Ph.D. dissertation committee member: Mincheol Choi, Hyunji So (McGill Univ), Byeong-Seok Koo (KIST)

INSTITUTE SERVICE

1. Seminar organizer (2019 – Present)

2. Colloquium coordinator (2019 – Present)

PROFESSIONAL SERVICE

Editorial Board:

한국경제학보 (2018 – Present)

REFEREES

European Journal of Social Psychology – psychology journal

Games and Economic Behavior

Global Economic Review

International Journal of Game Theory

Journal of Economic Behavior and Organization

Journal of Evolutionary Economics

Journal of Combinatorial Optimization – mathematics journal

Korean Economic Review

Manufacturing & Service Operations Management – business journal

Physica A – multidisciplinary journal

RAND Journal of Economics

Theoretical Economics

(in alphabetical order, SCI and SSCI journals only)

PAPER PRESENTATIONS

In 2020: The 20th Annual SAET Conference (Postponed), Tsinghua University (Postponed), Singapore Management University (Scheduled).

In 2019: Ewha Womans University, Korea Workshop: Experimental Economics and Development Economics (SNU), Korean Academic Society of Industrial Organization, 2019 Nanjing International Conference on Theory, Korean Econometric Society: Microeconomics, 한국재정학회 춘계학술대회, Yonsei University, 한국재정정책학회 춘계학술대회, CKJ Workshop.

In 2018: 경제학 교육위원회 심포지움, University of Seoul, KEA-KAEA Joint International Conference (SKKU), Korea Military Academy, Sogang University, Korean Academic Society of Industrial Organization, KAIST, Korea's Allied Economic Associations Annual Meeting (Korean Econometric Society: Microeconomics), Yonsei University, Yonsei University (Department of Public Administration), Yonsei University (Joint Conference on Economics and Psychology).

In 2017: Korea University, Incheon National University (Department of Mathematics), SURE International Conference (SNU), Ewha Womans University, Korea's Allied Economic Associations Annual Meeting (Korean Academic Society of Industrial Organization), Western Economic Association International (WEAI, San Diego), Korean Academic Society of Industrial Organization, Korean Econometric Society: Microeconomics, International Conference on Recent Trends in Economics (SKKU), Kyung Hee University (Department of Political Science & International Relations), Korea's Allied Economic Associations Annual Meeting (Korean Academic Society of Industrial Organization & Korean Econometric Society: Microeconomics).

In 2016: Applying Game Theory to Humanities, Social Science and Natural Science (KIAS), Yonsei University, Applied Economics Conference (SNU), Korean Academic Society of Industrial Organization, The Korean Econometric Society, Microeconomics, Yonsei Young Economists Workshop, UC Riverside, KIRI, Kyung Hee University, Ulsan National Institute of Science and Technology, Sogang University, KIF, KERI, KDI, KIPF.

In 2015: SoCal NEGT Symposium (Lightning Talk, USC), Korea University (Department of Physics), Seoul National University, Yonsei University, Handong Global University, The 41st Annual Meeting of the EEA (New York).

In 2014: SoCal NEGT Symposium (Lightning Talk, Caltech), The 16th KEA-KAEA International Conference (Yonsei U), The KIET-KAEA Joint Conference, Yonsei University, SoCal NEGT Symposium (Poster, UCLA).

Before 2014: SoCal NEGT Symposium (Poster, USC), BK 21 Seminar (Yonsei U), SISL Seminar (Caltech).

RESEARCH GRANTS, SCHOLARSHIPS, HONORS, AND AWARDS

Research Grants

NRF of Korea (2020S1A5A8045042), 2020–22

NRF of Korea (2019S1A5A8038003), 2019–20

President's Lists

Highest Honors Student of Yonsei University, 2007–08

High Honors Student of Yonsei University, 2004–07

Scholarships and Fellowships

Caltech Graduate Fellowship, 2010–16

The Korean Methodist Church Scholarship, 2014–15

Youngnak Scholarship, 2014

The Korean Honor Scholarship, 2013

Yonsei Alumni Scholarship, 2008

National Science and Technology Scholarship, 2003–07

Awards

Financial Literacy Outreach Idea Challenge (JoongAng Ilbo and Hanmi Bank), 2015

Yonsei International Foundation Award, 2011

Travel Award to Visiting European Union Countries, 2009

NON-ACADEMIC EXPERIENCE

Legislative Assistant, National Assembly, Republic of Korea, 2007

Military Service (Sergeant), Republic of Korea Air Force, 2004–07

MISCELLANEOUS

1. Languages: English (fluent), Korean (native)
2. Citizenship: Republic of Korea
3. Married with one daughter