

Suho Shin

Ph.D. Student at University of Maryland, College Park

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RESEARCH INTEREST

I'm broadly interested in the intersection of microeconomics, theoretical computer science and learning theory. This includes algorithmic game theory/mechanism design, information design, social learning/choice, and their interface with approximate/randomized/online algorithm, computational complexity, and multi-armed bandits.

EDUCATION

University of Maryland, College Park

Maryland, USA

Ph.D. in Computer Science

Sep. 2022 –

- Advisor: [Prof. MohammadTaghi Hajiaghayi](#)

Korea Advanced Institute of Science and Technology

Daejeon, South Korea

M.S. in Electrical Engineering

Mar. 2016 – Jan. 2018

- Advisor: [Prof. Yung Yi](#)

Korea Advanced Institute of Science and Technology

Daejeon, South Korea

B.S. in Mathematical Sciences

Mar. 2011 – Feb. 2016

PUBLICATION

(α, β) denotes alphabetical order of authorship, which is common in theoretical computer science/econ/math community.

Price of Class Fairness in Online Matching

α, β M. Hajiaghayi, S. Jahan, M. Sharify, S. Shin, M. Springer

Under review

Incentivizing Performance in Bandits with Strategic Arms

α, β S. Esmaeili, S. Shin, A. Slivkins

Under review

Almost Tight Guarantees for Online Nash Social Welfare Maximization

α, β K. Banihashem, M. Hajiaghayi, E. Martinez, S. Shin, M. Springer

Under review

A Regret Analysis of Repeated Delegated Choice

α, β M. Hajiaghayi, M. Mahdavi, K. Rezaei, S. Shin

Under review

An Improved Relaxation for Oracle-Efficient Adversarial Contextual Bandits

α, β K. Banihashem, M. Hajiaghayi, S. Shin, M. Springer

NeurIPS'23

Bandit Social Learning under Myopic Agents

α, β K. Banihashem, M. Hajiaghayi, S. Shin, A. Slivkins

[NeurIPS'23](#)

Delegating to Multiple Agents

α, β M. Hajiaghayi, K. Rezaei, S. Shin

[EC'23](#)

Multi-armed Bandit Algorithm against Strategic Replication.

S. Shin, S. Lee, J. Ok

[AISTATS'22](#)

Power of Bonus in Pricing for Crowdsourcing.

S. Shin, H. Choi, Y. Yi, J. Ok

[SIGMETRICS'22](#)

HONORS & AWARDS

Graduate School Summer Research Fellowship

University of Maryland (declined)

USA

Summer 2023

Dean's Fellowship

University of Maryland

USA

Fall 2022 – Fall 2024

The National Scholarship for Science and Engineering

Korea Student Aid Foundation

South Korea

Spring 2011 – Fall 2017

Dean's Award for Entrance

Korea Advanced Institute of Science and Technology

South Korea

Spring 2011

Gold Medal, Korean Mathematical Olympiad

Korean Mathematical Society

South Korea

Fall 2008

VISITS & INTERNSHIPS

Visiting Student

Host: [Prof. Piotr Krysta](#)

University of Liverpool

Jul. 2023

Visiting Student

Topic: [Mathematics and Computer Science of Market and Mechanism Design](#)

SLMath, UC Berkeley

Jun. 2023

Research Intern

Host: [Prof. Jungseul Ok](#)

Machine Learning Lab, Postech

Summer 2022

ACADEMIC SERVICE

Reviewer

NeurIPS'23, AISTATS'22

TALKS

Delegating to Multiple Agents

INFORMS Annual Meeting, Award Session

Arizona, USA

Oct. 2023

Delegating to Multiple Agents

ACM Conference on Economics and Computation (EC)

London, UK

Jul. 2023

Power of Bonus in Pricing for Crowdsourcing

Proceedings of the ACM on Measurement and Analysis of Computing Systems (POMACS)

Virtual

Jun. 2022

Multi-armed Bandit Algorithm against Strategic Replication

International Conference on Artificial Intelligence and Statistics (AISTATS)

Virtual

Mar. 2022

Mechanism Design and Multi-armed Bandit

Machine Learning Lab, Postech

Virtual

Feb. 2022

TEACHING

Introduction to Computational Game Theory (CMSC474) <i>Teaching Assistant</i>	Fall 2023 UMD
Design and Analysis of Computer Algorithms (CMSC451) <i>Teaching Assistant</i>	Spring 2023 UMD
Introduction to Computational Game Theory (CMSC474) <i>Teaching Assistant</i>	Fall 2022 UMD
Data Structure and Algorithms for Electrical Engineering (EE205) <i>Teaching Assistant</i>	Fall 2017 KAIST
Computer Networks (EE323) <i>Teaching Assistant</i>	Spring 2017 KAIST

INDUSTRY

<u>LINE plus Corporation</u>, LINE Advertisement Platform <i>Data Scientist</i>	Seongnam, South Korea Oct. 2020 – Apr. 2022
<u>Coupang</u>, Product, Search and Discovery Platform <i>Software Engineer</i>	Jamsil, South Korea Aug. 2018 – Sep. 2020