

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.

Replication-proof Bandit Mechanism Design

α, β S. Esmaeili, M. Hajiaghayi, S. Shin

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

Incentivizing Performance in Multi-Armed Bandits with Strategic Arms

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

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

Under review

Bandit Social Learning under Myopic Agents

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

[Under review](#)

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

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

External Reviewer

NeurIPS'23, AISTATS'22

TALKS

Delegating to Multiple Agents

INFORMS Annual Meeting, Auctions and Market Design

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

Design and Analysis of Computer Algorithms (CMSC451)

Teaching Assistant

Spring 2023

UMD

Introduction to Computational Game Theory (CMSC474)

Teaching Assistant

Fall 2022

UMD

Data Structure and Algorithms for Electrical Engineering (EE205)

Teaching Assistant

Fall 2017

KAIST

Computer Networks (EE323)

Teaching Assistant

Spring 2017

KAIST

INDUSTRY

LINE plus Corporation, LINE Advertisement Platform

Data Scientist; Technical Research Personnel for Military Service

Seongnam, South Korea

Oct. 2020 – Apr. 2022

Coupang, Product, Search and Discovery Platform

Software Engineer; Technical Research Personnel for Military Service

Jamsil, South Korea

Aug. 2018 – Sep. 2020