Jung-hun Kim

Email: junghunkim@snu.ac.kr
Website: sites.google.com/view/junghunkim

Education

Korea Advanced Institute of Science and Technology (KAIST) Fall 2018–Fall 2023
Ph.D. in Industrial & Systems Engineering, GPA: 3.94/4.30
Advisor: Se-Young Yun

Korea Advanced Institute of Science and Technology (KAIST) Fall 2016–Fall 2018
M.S. in Graduate School of Knowledge Service Engineering*, GPA: 4.03/4.30
(*Now, Graduate School of Data Science)

Ulsan National Institute of Science and Technology (UNIST) Spring 2011–Fall 2015
B.S. in Physics, GPA: 3.94/4.30 (*Summa Cum Laude*)

Research Experience

Seoul National University Seoul
Postdoctoral Researcher (Supervisor: Min-hwan Oh) Fall 2023 - Current

- Matching Bandits under Preference Feedback

London School of Economics London
Research Intern (Supervisor: Milan Vojnović) Spring 2021-Summer 2021

- Online Scheduling Jobs in Data Processing Platforms

Research Interests

Learning Theory, Bandit Algorithms

Publications

1. [**NeurIPS 2024**] Queueing Matching Bandits with Preference Feedback.
Jung-hun Kim, Min-hwan Oh
2. [**NeurIPS 2024**] An Adaptive Approach for Infinitely Many-armed Bandits under Generalized Rotting Constraints.
Jung-hun Kim, Milan Vojnović, Se-Young Yun
3. [**AISTATS 2023**] Contextual Linear Bandits under Noisy Features: Towards Bayesian Oracles.
Jung-hun Kim, Se-Young Yun, Minchan Jeong, Jun Hyun Nam, Jinwoo Shin, Richard Combes
4. [**ICML 2022**] Rotting Infinitely Many-armed Bandits.
Jung-hun Kim, Milan Vojnović, Se-Young Yun

Working Papers

1. (Submitted) Dynamic Multi-product Selection and Pricing under Preference Feedback; Jung-hun Kim, Min-hwan Oh.
2. (Submitted) Stochastic Matching Bandit under Preference Feedback; Jung-hun Kim, Min-hwan Oh
3. (Submitted) Scheduling Servers with Stochastic Bilinear Rewards; Jung-hun Kim and Milan Vojnović
4. Adversarial Bandits against Arbitrary Strategies; Jung-hun Kim and Se-Young Yun

Academic Service

Reviewer
NeurIPS, ICML, ICLR, AISTATS, CDC, AAAI

Presentation

GLAMPING Seminar — Seoul National University, Seoul, South Korea
-Queueing Matching Bandits with Preference Feedback — Dec 2024

INFORMS Annual Meeting — Seattle, Washington, U.S
-Queueing Matching Bandits with Preference Feedback — Oct 2024

SIAM Conference on Optimization (OP23) — Seattle, Washington, U.S
-Scheduling Servers with Stochastic Bilinear Rewards — June 2023

Extra

- Master Student in Physics, KAIST — Fall 2015–Spring 2016

Projects

- Bandit algorithms for multi-objective optimization and fair exploration — 2023–
  (funded by Korean Ministry of Education)
- Development of recommender systems under sparse labels — 2022–2023
  (funded by Samsung Research)
- Development of prediction models for tire properties and inverse design models for tire recipes — 2019–2020
  (funded by Hankook Tire & Technology Group)

Teaching

- **Teaching Assistant** at KAIST
  Statistical Machine Learning (IE343) — Spring 2019, 2020
  Concentration inequalities in matrix data analysis (IE801(B)) — Fall 2018
  General Physics I (PH141) — Fall 2015
- **Teaching Assistant** at Enterprise
  Samsung DS-KAIST AI Expert Program — Summer, Fall 2019
  LG-KAIST AI & Big Data Advanced Course — Spring 2019

Scholarships and Awards

- The National Scholarship for Science and Engineering, Korea Student Aid Foundation — 2013–2014
- Award for Semester Academic Excellence, UNIST — 5 times in 2011–2014
- Scholarship for Academic Excellence, UNIST — 2011–2012