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 (Minor: Mechanical Engineering), GPA: 3.94/4.30 (*Summa Cum Laude*)

Research Interests

Bandits, RL

Publications

[1] "An Adaptive Approach for Infinitely Many-armed Bandits under Generalized Rotting Constraints". By Jung-hun Kim, Milan Vojnovic, and Se-Young Yun. In: *NeurIPS* (2024).

[2] "Queueing Matching Bandits under Preference Feebback". By Jung-hun Kim and Min-hwan Oh. In: *NeurIPS* (2024).

[3] "Contextual Linear Bandits under Noisy Features: Towards Bayesian Oracles". By Jung-hun Kim, Se-Young Yun, Minchan Jeong, Jun Hyun Nam, Jinwoo Shin, and Richard Combes. In: *AISTATS* (2023).

[4] "Rotting infinitely many-armed bandits". By Jung-hun Kim, Milan Vojnovic, and Se-Young Yun. In: *ICML* (2022).

[5] "Research Hypothesis Generation Using Link Prediction in a Bipartite Graph". By Jung-Hun Kim and Aviv Segev. In: *2018 IEEE International Conference on Big Data (Big Data)*. IEEE. 2018, pp. 2863–2867.

Working Papers

1. (Submitted) Dynamic Pricing + Bandits and RL, Jung-hun Kim, Min-hwan Oh.
2. (Submitted) Matching Optimization + Bandits, Jung-hun Kim, Min-hwan Oh
3. (Submitted) "Scheduling Servers with Stochastic Bilinear Rewards" Jung-hun Kim and Milan Vojnović (arxiv).

Experience & Activities

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 (funded by Facebook)

Area Chair
AAAI

Reviewer
NeurIPS, ICML, ICLR, AISTATS, CDC

Presentation

INFORMS Annual Meeting — Seattle, Washington, U.S
-Queueing Matching Bandits under 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

- Development of recommender systems under sparse labels (funded by Samsung Research) — 2022–2023
- Development of prediction models for tire properties and inverse design models for tire recipes (funded by Hankook Tire & Technology Group) — 2019–2020

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