



Joongkyu Lee

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RESEARCH APPOINTMENT

Sequential Decision Making, Reinforcement Learning, Bandit Algorithms, Machine Learning

EDUCATION

Seoul National University, Seoul, South Korea Mar. 2023 - **Present**
Ph.D Candidate in Data Science, Advisor: Min-hwan Oh

Seoul National University, Seoul, South Korea Feb. 2023
M.S. in Data Science, Advisor: Min-hwan Oh

Yonsei University, Seoul, South Korea Feb. 2016
B.S. in Industrial Engineering

PUBLICATIONS

- [2] **Demystifying Linear MDPs and Novel Dynamics Aggregation Framework**
J. Lee and M. Oh
Proceedings of the 12th International Conference on Learning Representations (ICLR), to appear, 2024.
- [1] **Learning Uncertainty-Aware Temporally-Extended Actions**
J.Lee, S. Park, Y. Tang, and M. Oh
Proceedings of the 38th AAAI Conference on Artificial Intelligence (AAAI), to appear, 2024.

INDUSTRY EXPERIENCE

Samsung Electronics | *SQL, Python* Aug. 2018 - Dec. 2020

- Production Management Group at Samsung Electronics DS

INDUSTRY PROJECTS

Development of Analysis Model to Explore Test Process Equipment Combination and Improve Flexible Test Performance Mar. - Sep. 2022

- Director: Prof. Min-hwan Oh
- Funded by *SK hynix*

INVITED TALKS & CONFERENCE PRESENTATION

- “Contextual Linear Bandits” and “Deep Reinforcement Learning”
- SK Telecom Market Top AI Course July. - Aug. 2023
- “Hierarchical Model-Based Reinforcement Learning with Linear Function Approximation”
- 2023 Korea Artificial Intelligence Association (KAIA), **Best Paper Award** July. 2023
 - Earlier Version of “Demystifying Linear MDPs and Novel Dynamics Aggregation Framework”
- “Contextual Linear Bandits”
- SK Telecom Market Top AI Course July. 2023
- “Learning Uncertainty-Aware Temporally-Extended Actions”
- 2023 Korea Data Mining Society June. 2023
 - 2022 INFORMS Annual meeting, Indianapolis Oct. 2022
 - 2022 Korea Artificial Intelligence Association (KAIA) Aug. 2022

AWARDS & SCHOLARSHIPS

Best Paper Award, Korea Artificial Intelligence Association

July. 2023

National Excellence Scholarship, Korea Student Aid Foundation

Spring. 2010 - Fall. 2013

TEACHING EXPERIENCE

Seoul National University, Seoul, South Korea

- Machine Learning & Deep Learning

Spring. 2022

- Data Science & Reinforcement Learning

Fall. 2021