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.*

EXPERIENCE

Samsung Electronics | *SQL, Python*   Aug. 2018 - Dec. 2020
- Production Management Group at Samsung Electronics DS

Military Service   Mar. 2016 - Mar.2018
- Republic of Korea Air Force

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"*

"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