

KYOWOON LEE

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RESEARCH INTERESTS

Deep reinforcement learning: unsupervised skill discovery and automatic curriculum learning in reinforcement learning.

EDUCATION

Ulsan National Institute of Science and Technology (UNIST)

Combined M.S. and Ph.D. Program in Computer Science and Engineering

Sep 2016 - present

Ulsan National Institute of Science and Technology (UNIST)

B.S. in Computer Science and Engineering, *summa cum laude*

Mar 2012 - Aug 2016

GPA (Overall): 4.01/4.3

HONORS AND AWARDS

Awards

- Naver Ph.D. Fellowship Award, Naver, 2018
- SAIL Research Excellence Award, Statistical Artificial Intelligence Lab, UNIST, 2018.
- Summa Cum Laude, UNIST, 2016.

Competitions

- **Winner (the 1st place)**, Breast Cancer Classification on Frozen Pathology, HeLP Challenge at Asan Medical Center, 2019.
- **Winner (the 1st place)**, UEC-cup Digital Curling Competition, Game AI Tournament, 2018.
- **Winner (the 1st place)**, Digital Curling Competition, Game Playing Workshop, 2017.

Scholarship

- National Science and Technology Scholarship, Korean Student Aid Foundation, 2012 - 2016.

PUBLICATIONS AND PREPRINTS

Preprints (*: equal contribution)

1. **Kywoon Lee***, Seongun Kim* and Jaesik Choi, *Refining Diffusion Planner for Reliable Behavior Synthesis by Automatic Detection of Infeasible Plans*.

International Conferences (*: equal contribution)

1. Seongun Kim*, **Kywoon Lee*** and Jaesik Choi, *Variational Curriculum Reinforcement Learning for Unsupervised Discovery of Skills*, International Conference on Machine Learning (ICML), 2023.
2. **Kywoon Lee***, Seongun Kim* and Jaesik Choi, *Adaptive and Explainable Deployment of Navigation Skills via Hierarchical Deep Reinforcement Learning*, International Conference on Robotics and Automation (ICRA), 2023.
3. Jiyeon Han*, **Kywoon Lee***, Anh Tong and Jaesik Choi, *Confirmatory Bayesian Online Change Point Detection in the Covariance Structure of Gaussian Processes*, International Joint Conference on Artificial Intelligence (IJCAI), 2019.
4. **Kywoon Lee***, Sol-A Kim*, Jaesik Choi and Seong-Hwan Lee, *Deep Reinforcement Learning in Continuous Action Spaces: a Case Study in the Game of Simulated Curling*, International Conference on Machine Learning (ICML), 2018.

EXTRACURRICULAR ACTIVITIES

Amateur Piano Competitions

- **Winner (the 1st place)**, H-Arts Music Competition at the Youth Group, H-Arts, 2023.
- **Winner (the 3rd place)**, 1st SYAP Amateur Piano Concours at the Youth Group, Seoul Young Academic Pianists, 2022.

Amateur Piano Concerts

- F. Chopin - Ballade No.1 In G minor, Op.23, PianoBridge, 2022

REFERENCES

Prof. Jaesik Choi: Associate Professor in the Graduate School of Artificial Intelligence, KAIST