

# KYOWOON LEE

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## RESEARCH INTERESTS

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

## EDUCATION

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**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: 4.01/4.3 (overall), 4.1/4.3 (major)

## HONORS AND AWARDS

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### 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

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### Preprints (\*: equal contribution)

1. Seongun Kim\*, **Kywoon Lee\*** and Jaesik Choi, *Variational Curriculum Reinforcement Learning for Unsupervised Discovery of Skills*, under review.

### International Conferences (\*: equal contribution)

1. **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.
2. 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.
3. **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

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### **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**

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