

# KYOWOON LEE

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## RESEARCH INTERESTS

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Deep reinforcement learning: unsupervised skill discovery and goal-conditioned reinforcement learning.

## PROFESSIONAL EXPERIENCE

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**Korea Advanced Institute of Science and Technology (KAIST)**

Postdoctoral Researcher

Oct 2024 - present

## 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 - Aug 2024*

**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

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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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### Submitted/Under Revision

1. **Kywoon Lee** and Jaesik Choi, *State-Covering Trajectory Stitching for Diffusion Planning*.

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

1. **Kywoon Lee**, Artyom Stitsyuk, Gunu Jho, Inchul Hwang and Jaesik Choi, *Counterfactual Activation Editing for Post-hoc Prosody and Mispronunciation Correction in TTS Models*, **Inter-speech**, 2025.
2. **Kywoon Lee** and Jaesik Choi, *Local Manifold Approximation and Projection for Manifold-Aware Diffusion Planning*, International Conference on Machine Learning (**ICML**), 2025.
3. **Kywoon Lee\***, Seongun Kim\* and Jaesik Choi, *Refining Diffusion Planner for Reliable Behavior Synthesis by Automatic Detection of Infeasible Plans*, Conference on Neural Information Processing Systems (**NeurIPS**), 2023.

4. Seongun Kim\*, **Kyowoon Lee\*** and Jaesik Choi, *Variational Curriculum Reinforcement Learning for Unsupervised Discovery of Skills*, International Conference on Machine Learning (ICML), 2023.
5. **Kyowoon 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.
6. Jiyeon Han\*, **Kyowoon 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.
7. **Kyowoon 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.

## REFERENCES

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