

Suyoung Lee

CONTACT INFORMATION	Korea Advanced Institute of Science and Technology (KAIST), School of Electrical Engineering. N1-619, 291 Daehak-ro, Yuseong-gu, Daejeon 34141, Republic of Korea	Email: suyoung.l@kaist.ac.kr Homepage: https://suyoung-lee.github.io
RESEARCH INTERESTS	Deep reinforcement learning, especially meta-reinforcement learning and generalization.	
EDUCATION	<p>Ph.D. Candidate, Electrical Engineering <i>Aug. 2022 to Feb. 2024 (expected)</i> Korea Advanced Institute of Science and Technology (KAIST). Advisor: Prof. Youngchul Sung.</p> <p>Ph.D. Candidate, Electrical Engineering <i>Mar. 2019 to Aug. 2022</i> Korea Advanced Institute of Science and Technology (KAIST). Advisor: Prof. Sae-Young Chung.</p> <p>M.S., Electrical Engineering <i>Mar. 2017 to Feb. 2019</i> Korea Advanced Institute of Science and Technology (KAIST). Advisor: Prof. Sae-Young Chung.</p> <p>B.S., Electrical Engineering <i>Feb. 2012 to Feb. 2017</i> Korea Advanced Institute of Science and Technology (KAIST). Hansung Science High School, Seoul, Republic of Korea. <i>Feb. 2012</i></p>	
HONORS	<p>Best Ph.D. Dissertation Award. <i>2024</i> Thesis: <i>Meta-Reinforcement Learning with Imaginary Tasks</i>, KAIST EE.</p> <p>Qualcomm-KAIST Innovation Awards. <i>2018</i> Paper competition awards for graduate students, Qualcomm.</p> <p>Un Chong-Kwan Scholarship Award. <i>2017</i> For achievement of excellence in 2017 entrance examination, KAIST EE.</p>	
PUBLICATIONS	<p>[C] Conference [W] Workshop [P] Preprint</p> <p>[C1] Suyoung Lee, Sungik Choi, and Sae-Young Chung. “<i>Sample-Efficient Deep Reinforcement Learning via Episodic Backward Update</i>.” Neural Information Processing Systems (NeurIPS) 2019.</p> <p>[C2] Suyoung Lee and Sae-Young Chung. “<i>Improving Generalization in Meta-RL with Imaginary Tasks from Latent Dynamics Mixture</i>.” Neural Information Processing Systems (NeurIPS) 2021.</p> <p>[C3] Suyoung Lee, Myungsik Cho, and Youngchul Sung. “<i>Parameterizing Non-Parametric Meta-Reinforcement Learning Tasks via Subtask Decomposition</i>.” Neural Information Processing Systems (NeurIPS) 2023.</p> <p>[C4] Jeonghye Kim, Suyoung Lee, Woojun Kim, and Youngchul Sung “<i>Decision ConvFormer: Local Filtering in Metaformer is Sufficient for Decision Making</i>.” International Conference on Learning Representations (ICLR) 2024 as spotlight presentation (366/7262= 5.0%).</p> <p>[W1] Suyoung Lee and Sae-Young Chung. “<i>Adaptive Intrinsic Motivation with Decision Awareness</i>.” Decision Awareness in Reinforcement Learning Workshop at International Conference on Machine Learning (ICML) 2022.</p>	

[W2] Jeonghye Kim, **Suyoung Lee**, Woojun Kim, and Youngchul Sung. “*Decision ConvFormer: Local Filtering in MetaFormer is Sufficient for Decision Making.*” Foundation Models for Decision Making Workshop at Neural Information Processing Systems (NeurIPS) 2023.

[P1] Jeonghye Kim, **Suyoung Lee**, Woojun Kim, and Youngchul Sung “*Value-Aided Conditional Supervised Learning for Offline RL.*” arXiv Preprint.

LANGUAGES	<p>Korean (native)</p> <p>English (fluent) – TOEIC 950 (23.06.28)</p> <p>Russian (basic)</p> <p>International linguistic experience at Tashkent International School, 2007–2009.</p>
PROGRAMMING LANGUAGES	<p>MATLAB and Python (PyTorch/TensorFlow).</p> <p>GitHub: https://github.com/suyoung-lee</p>
ACADEMIC SERVICES	<p>Conference reviewer</p> <ul style="list-style-type: none"> • International Conference on Machine Learning (ICML): 2021–2023 • Neural Information Processing Systems (NeurIPS): 2021–2023 • International Conference on Learning Representations (ICLR): 2024 <p>Program committee</p> <ul style="list-style-type: none"> • Foundation Models for Decision Making Workshop (FMDM) at Neural Information Processing Systems (NeurIPS) 2023.
TEACHING EXPERIENCE	<p>Teaching assistant (KAIST) <i>Spring 2018 to Fall 2020</i></p> <ul style="list-style-type: none"> • EE326 Introduction to Information Theory and Coding. • EE210 Probability and Introductory Random Processes. • EE105 Electrical Engineering: Changing the World. • EE405 Electronics Design Lab. Network of Smart Things. • EE807 Special Topics in EE. Deep Reinforcement Learning and AlphaGo. <ul style="list-style-type: none"> – Course rewarded for the outstanding TA award at KAIST EE. • EE405 Electronics Design Lab. Network of Smart Systems.