

## Suyoung Lee

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| CONTACT INFORMATION | Korea Advanced Institute of Science and Technology (KAIST), School of Electrical Engineering.<br>N1-619, 291 Daehak-ro, Yuseong-gu, Daejeon 34141, Republic of Korea  | <b>Email:</b> <a href="mailto:suyoung.l@kaist.ac.kr">suyoung.l@kaist.ac.kr</a><br><b>Homepage:</b> <a href="https://suyoung-lee.github.io">https://suyoung-lee.github.io</a> |
| RESEARCH INTERESTS  | Deep reinforcement learning, especially meta-reinforcement learning and generalization.   |  |
| EDUCATION           | <p><b>Ph.D. Candidate</b>, Electrical Engineering <i>Aug. 2022 to Feb. 2024 (expected)</i><br/>Korea Advanced Institute of Science and Technology (KAIST).<br/>Advisor: Prof. Youngchul Sung.</p> <p><b>Ph.D. Candidate</b>, Electrical Engineering <i>Mar. 2019 to Aug. 2022</i><br/>Korea Advanced Institute of Science and Technology (KAIST).<br/>Advisor: Prof. Sae-Young Chung.</p> <p><b>M.S.</b>, Electrical Engineering <i>Mar. 2017 to Feb. 2019</i><br/>Korea Advanced Institute of Science and Technology (KAIST).<br/>Advisor: Prof. Sae-Young Chung.</p> <p><b>B.S.</b>, Electrical Engineering <i>Feb. 2012 to Feb. 2017</i><br/>Korea Advanced Institute of Science and Technology (KAIST).<br/>Hansung Science High School, Seoul, Republic of Korea. <i>Feb. 2012</i></p>   |  |
| HONORS              | <p>Best Ph.D. Dissertation Award. <i>2024</i><br/>Thesis: <i>Meta-Reinforcement Learning with Imaginary Tasks</i>, KAIST EE.</p> <p>Qualcomm-KAIST Innovation Awards. <i>2018</i><br/>Paper competition awards for graduate students, Qualcomm.</p> <p>Un Chong-Kwan Scholarship Award. <i>2017</i><br/>For achievement of excellence in 2017 entrance examination, KAIST EE.</p>   |  |
| PUBLICATIONS        | <p>[C] Conference    [W] Workshop    [P] Preprint</p> <p>[C1] <b>Suyoung Lee</b>, 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] <b>Suyoung Lee</b> 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] <b>Suyoung Lee</b>, 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] Jeonghyee Kim, <b>Suyoung Lee</b>, 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 <b>spotlight presentation (366/7262= 5.0%)</b>.</p> <p>[W1] <b>Suyoung Lee</b> 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.

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