

Yoonho Lee

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Education

POSTECH (Pohang University of Science and Technology)

M.S. in Computer Science

- Advisor: Seungjin Choi
- Thesis: Gradient-Based Meta-Learning with Learned Layerwise Metric and Subspace [C1].

Pohang, South Korea

Aug. 2016 - Aug. 2018

POSTECH (Pohang University of Science and Technology)

B.S. in Mathematics

Pohang, South Korea

Mar. 2012 - Aug. 2016

University of California, Berkeley

Exchange Student, Mathematics Department

CA, United States

Aug. 2014 - Aug. 2015

Publications

CONFERENCE PAPERS

- [C5] **Yoonho Lee**, Juho Lee, Sung Ju Hwang, Eunho Yang, and Seungjin Choi. “Neural Complexity Measures”. 34th Conference on Neural Information Processing Systems (**NeurIPS 2020**)
- [C4] Juho Lee*, **Yoonho Lee***, Jungtaek Kim, Eunho Yang, Sung Ju Hwang, and Yee Whye Teh. “Bootstrapping Neural Processes”. 34th Conference on Neural Information Processing Systems (**NeurIPS 2020**)
- [C3] Wonjae Kim and **Yoonho Lee**. “Learning Dynamics of Attention: Human Prior for Interpretable Machine Reasoning”. 33rd Conference on Neural Information Processing Systems (**NeurIPS 2019**)
- [C2] Juho Lee, **Yoonho Lee**, Jungtaek Kim, Adam Kosiorek, Seungjin Choi, and Yee Whye Teh. “Set Transformer: A Framework for Attention-based Permutation-Invariant Neural Networks”. 36th International Conference on Machine Learning (**ICML 2019**)
- [C1] **Yoonho Lee** and Seungjin Choi. “Gradient-based meta-learning with learned layerwise metric and subspace”. 35th International Conference on Machine Learning (**ICML 2018**)

WORKSHOP PAPERS

- [W1] Juho Lee, **Yoonho Lee**, and Yee Whye Teh. “Deep Amortized Clustering”. **Oral Presentation**, Sets and Partitions Workshop at **NeurIPS 2019**

PREPRINTS

- [P3] Ari Pakman*, Yueqi Wang*, **Yoonho Lee***, Pallab Basu, Juho Lee, Yee Whye Teh, Liam Paninski. “Amortized Probabilistic Detection of Communities in Graphs”.
- [P2] Minkyoo Seo*, **Yoonho Lee***, and Suha Kwak. “On the Distribution of Penultimate Activations of Classification Networks”.
- [P1] **Yoonho Lee**, Wonjae Kim, Wonpyo Park, and Seungjin Choi. “Discrete Infomax Codes for Supervised Representation Learning”.

Industry Experience

AITRICS

Research Scientist

- Conducted research on meta-learning [C5] and probabilistic models [C4, P3].

Seoul, South Korea

Mar. 2020 - Present

Kakao Corporation

Research Scientist

- Conducted research on set-input networks [C2, W1], interpretable attention mechanisms [C3], regularization for meta-learning [P1], and efficient knowledge distillation [P2].

Pangyo, South Korea

Aug. 2018 - Mar. 2020

Naver Corporation

Research Intern

- Conducted research on meta-learning optimizers.

Jeongja, South Korea

Mar. 2018 - Jun. 2018

Awards & Honors

SCHOLARSHIPS

KFAS Doctoral Study Abroad Fellowship

Sep. 2021 -

Full-tuition scholarship with stipend for graduate studies abroad, Korea Foundation for Advanced Studies

Korean Presidential Science Scholarship

Mar. 2012 - Mar. 2016

Full-tuition scholarship with stipend for undergraduate studies, Korea Student Aid Foundation

AWARDS

Outstanding Reviewer, Conference on Neural Information Processing Systems (NeurIPS)

2019

Travel Award, International Conference on Machine Learning (ICML)

2018

Silver Medal, Korean Mathematical Olympiad (KMO), High-school Division

2010

Gold Medal, Korean Mathematical Olympiad (KMO), Middle-school Division

2008

Reviewing Services

Advances in Neural Information Processing Systems (NeurIPS)

2018 - 2020

International Conference on Machine Learning (ICML)

2019 - 2021

International Conference on Learning Representations (ICLR)

2021

International Conference on Artificial Intelligence and Statistics (AISTATS)

2019 - 2021

International Joint Conferences on Artificial Intelligence (IJCAI)

2019 - 2021

Asian Conference on Machine Learning (ACML)

2019 - 2020

Relevant Coursework

Mathematics Modern Algebra 1-2, Analysis 1-2, Intro to Geometry, Intro to Number Theory, Intro to Numerical Analysis, General Topology Algebra 1, Algebraic Topology, Homological Algebra, Probability Theory, Theory of Functions of Complex Variables, Metamathematics

Computer Science Automata and Formal Languages, Data Analysis Using Tools, Computational Geometry, Pattern Recognition, Machine Learning, Deep Learning for Visual Recognition, Linguistics Basics for Natural Language Processing, Vision and Language

Teaching Experience

Teaching Assistant, Deep Learning Course, POSCO Group

Mar. 2017 - Jun. 2018

Teaching Assistant, Business ML Course, Samsung Electronics Device Solutions

Sep. 2017 - Dec. 2017

Teaching Assistant, AI Job Training Course, POSTECH Institute of AI

Mar. 2017 - Jun. 2017

Teaching Assistant, CSED101 (Programming and Problem Solving), POSTECH

Mar. 2017 - Jun. 2017

Skills

Languages Python, ~~TeX~~TeX, Matlab, C, C++, Java

Libraries PyTorch, TensorFlow, NumPy, SciPy, Pandas, Seaborn