

# Yoonho Lee

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## Education

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### 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 in Mathematics Department

CA, United States

Aug. 2014 - Aug. 2015

### Sejong Science High School

Specialized high school for talented students in math and science. Early graduation.

Seoul, South Korea

Mar. 2010 - Mar. 2012

## Publications

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### PEER-REVIEWED 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**)

### PEER-REVIEWED WORKSHOP PAPERS

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

### PREPRINTS

- [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

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### AITRICS

Research Scientist

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

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

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### SCHOLARSHIPS

- Doctoral Study Abroad Program Fellowship** Aug. 2021 - Aug 2026 (expected)  
Full-tuition scholarship with stipend for graduate studies abroad, Korea Foundation for Advanced Studies (KFAS)
- 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

## Teaching Experience

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- 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

## Reviewing Services

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- Advances in Neural Information Processing Systems (NeurIPS) 2018 - 2020
- International Conference on Machine Learning (ICML) 2019 - 2020
- 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 - 2020
- Asian Conference on Machine Learning (ACML) 2019 - 2020

## Skills

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- Languages** Python,  $\LaTeX$ , Matlab, C, C++, Java
- Frameworks** PyTorch, TensorFlow, NumPy, SciPy, Pandas, Seaborn
- TOEFL Scores** 114 (Reading 30, Listening 29, Speaking 28, Writing 27)
- GRE Scores** Verbal 167 (95%), Quantitative 169 (94%), Analytical Writing 5.0 (92%)