

Yoonho Lee

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Education

Stanford University, Ph.D.

Department of Computer Science, Advisor: Chelsea Finn

United States

2021 - present

POSTECH, M.S.

Department of Computer Science and Engineering, Advisor: Seungjin Choi

South Korea

2018

- Thesis: Gradient-Based Meta-Learning with Learned Layerwise Metric and Subspace

POSTECH, B.S.

Department of Mathematics

South Korea

2016

Publications

- [13] Eric Mitchell, **Yoonho Lee**, Alexander Khazatsky, Christopher D Manning, Chelsea Finn. “DetectGPT: Zero-Shot Machine-Generated Text Detection using Probability Curvature”. 40th International Conference on Machine Learning (**ICML 2023**), Oral Presentation
- [12] **Yoonho Lee***, Annie S. Chen*, Fahim Tajwar, Ananya Kumar, Huaxiu Yao, Percy Liang, Chelsea Finn. “Surgical Fine-Tuning Improves Adaptation to Distribution Shifts”. 11th International Conference on Learning Representations (**ICLR 2023**)
- [11] **Yoonho Lee**, Huaxiu Yao, Chelsea Finn. “Diversify and Disambiguate: Out-of-Distribution Robustness via Disagreement”. 11th International Conference on Learning Representations (**ICLR 2023**)
- [10] Balhae Kim, Jungwon Choi, Seanie Lee, **Yoonho Lee**, Jung-Woo Ha, Juho Lee. “On Divergence Measures for Bayesian Pseudocoresets”. 36th Conference on Neural Information Processing Systems (**NeurIPS 2022**)
- [9] Huaxiu Yao*, Caroline Choi*, Bochuan Cao, **Yoonho Lee**, Pang Wei Koh, Chelsea Finn. “Wild-Time: A Benchmark of in-the-Wild Distribution Shift over Time”. 36th Conference on Neural Information Processing Systems (**NeurIPS 2022**), Datasets & Benchmarks track
- [8] **Yoonho Lee**, Wonjae Kim, Wonpyo Park, Seungjin Choi. “Discrete Infomax Codes for Supervised Representation Learning”. Entropy special issue “Theory and Applications of Information Processing Algorithms”, 2022
- [7] Giung Nam*, Jongmin Yoon*, **Yoonho Lee**, Juho Lee. “Diversity Matters When Learning From Ensembles”. 35th Conference on Neural Information Processing Systems (**NeurIPS 2021**)
- [6] Minkyo Seo*, **Yoonho Lee***, Suha Kwak. “On the Distribution of Penultimate Activations of Classification Networks”. 37th Conference on Uncertainty in Artificial Intelligence (**UAI 2021**)
- [5] **Yoonho Lee**, Juho Lee, Sung Ju Hwang, Eunho Yang, Seungjin Choi. “Neural Complexity Measures”. 34th Conference on Neural Information Processing Systems (**NeurIPS 2020**)
- [4] Juho Lee*, **Yoonho Lee***, Jungtaek Kim, Eunho Yang, Sung Ju Hwang, Yee Whye Teh. “Bootstrapping Neural Processes”. 34th Conference on Neural Information Processing Systems (**NeurIPS 2020**)
- [3] Wonjae Kim, **Yoonho Lee**. “Learning Dynamics of Attention: Human Prior for Interpretable Machine Reasoning”. 33rd Conference on Neural Information Processing Systems (**NeurIPS 2019**)
- [2] Juho Lee, **Yoonho Lee**, Jungtaek Kim, Adam Kosiorek, Seungjin Choi, Yee Whye Teh. “Set Transformer: A Framework for Attention-based Permutation-Invariant Neural Networks”. 36th International Conference on Machine Learning (**ICML 2019**)
- [1] **Yoonho Lee**, Seungjin Choi. “Gradient-based meta-learning with learned layerwise metric and subspace”. 35th International Conference on Machine Learning (**ICML 2018**)

Fellowships and Grants

KFAS Doctoral Fellowship

Korea Foundation for Advanced Studies

Sep. 2021 - present

HAI Google Cloud Credits Award

Stanford HAI, \$15,000

Nov. 2022 - Nov. 2023

Korean Presidential Science Scholarship

Korea Student Aid Foundation

Mar. 2012 - Mar. 2016

Industry Experience

AITRICS

Research Scientist

South Korea

Mar. 2020 - Aug. 2021

Kakao Corporation

Research Scientist

South Korea

Aug. 2018 - Mar. 2020

Naver Corporation

Research Intern

South Korea

Mar. 2018 - Jun. 2018

Professional Service

Workshop organizer, NeurIPS Workshop on Distribution Shifts (2022, 2023)

Reviewer: NeurIPS (2018-2023; outstanding reviewer at 2019 and 2021), ICML (2019-2023), ICLR (2021-2023), AISTATS (2019-2022), IJCAI (2019-2021), ACML (2019-2020), ME-FoMo@ICLR (2023), TrustML@ICLR (2023).

Talks and Presentations

ICLR 2023, Kigali, Rwanda

Apr. 2023

Deep Learning: Classics and Trends, Online

Mar. 2023

NeurIPS 2022, New Orleans, USA

Dec. 2022

ICML 2022, Baltimore, USA

Jul. 2022

NeurIPS 2021, Online

Dec. 2021

NeurIPS 2020, Online

Dec. 2020

NeurIPS 2019, Vancouver, Canada

Dec. 2019

Kakao Brain, South Korea

May 2019

Second Korea-Japan Machine Learning Workshop, South Korea

Feb. 2019

ICML 2018, Stockholm, Sweden

Jul. 2018

Naver, South Korea

Apr. 2018

Teaching Experience

Teaching Assistant, CS330 Deep Multi-Task and Meta Learning, Stanford University

Sep. 2022 - Dec. 2022

Teaching Assistant, Deep Learning, POSCO Group

Mar. 2017 - Jun. 2018

Teaching Assistant, Machine Learning for Business, Samsung Electronics

Sep. 2017 - Dec. 2017

Teaching Assistant, AI Job Training, POSTECH Institute of AI

Mar. 2017 - Jun. 2017

Teaching Assistant, CS210L Programming and Problem Solving, POSTECH

Mar. 2017 - Jun. 2017

Selected Coursework

Mathematics Introduction to {Geometry, Number Theory, Numerical Analysis}, Algebra, Homological Algebra, Algebraic Topology, General Topology, Analysis, Complex Analysis, Probability Theory, Statistics, Mathematical Logic

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