

Yoonho Lee

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Education

Stanford University

Ph.D. Computer Science, Advisor: Chelsea Finn

United States

2021 - present

Pohang University of Science and Technology

M.S. Computer Science, Advisor: Seungjin Choi

South Korea

B.S. Mathematics

2018

2016

Publications

Total 4,300+ citations (Google Scholar, Jan 2025).

- [26] **Yoonho Lee**, Joseph Boen, Chelsea Finn. “Feedback Descent: Open-Ended Text Optimization via Pairwise Comparison”. [arXiv:2511.07919 \(preprint\)](#)
- [25] Yuxiao Qu*, Anikait Singh*, **Yoonho Lee***, Amrith Setlur, Ruslan Salakhutdinov, Chelsea Finn, Aviral Kumar. “RLAD: Training LLMs to Discover Abstractions for Solving Reasoning Problems”. [ICML 2025](#) (42nd International Conference on Machine Learning) Workshops: AI for Math, PRAL, ES-FoMo
- [24] **Yoonho Lee**, Jonathan Williams, Henrik Marklund, Archit Sharma, Eric Mitchell, Anikait Singh, Chelsea Finn. “Test-Time Alignment via Hypothesis Reweighting”. [ICML 2025](#) (42nd International Conference on Machine Learning) Workshop PUT
- [23] Yuejiang Liu, Jubayer Ibn Hamid, Annie Xie, **Yoonho Lee**, Maximilian Du, Chelsea Finn. “Bidirectional Decoding: Improving Action Chunking via Closed-Loop Resampling”. [ICLR 2025](#) (13th International Conference on Learning Representations)
- [22] **Yoonho Lee**, Michelle Lam, Helena Vasconcelos, Michael S. Bernstein, Chelsea Finn. “Clarify: Improving Model Robustness With Natural Language Corrections”. [UIST 2024](#) (ACM Symposium on User Interface Software and Technology), [NeurIPS 2023](#) (37th Conference on Neural Information Processing Systems) Workshops: XAIA, ICBINB
- [21] Johnathan Xie*, Annie S. Chen*, **Yoonho Lee**, Eric Mitchell, Chelsea Finn. “Calibrating Language Models With Adaptive Temperature Scaling”. [EMNLP 2024](#) (2024 Conference on Empirical Methods in Natural Language Processing)
- [20] Caroline Choi*, **Yoonho Lee***, Annie S. Chen, Allan Zhou, Aditi Raghunathan, Chelsea Finn. “AutoFT: Learning an Objective for Robust Fine-Tuning”. Workshop on Distribution Shifts, [NeurIPS 2023](#) (37th Conference on Neural Information Processing Systems)
- [19] Annie S. Chen, **Yoonho Lee**, Amrith Setlur, Sergey Levine, Chelsea Finn. “Confidence-Based Model Selection: When to Take Shortcuts for Subpopulation Shifts”. Workshop on Distribution Shifts, [NeurIPS 2023](#) (37th Conference on Neural Information Processing Systems)
- [18] Caroline Choi*, Fahim Tajwar*, **Yoonho Lee***, Huaxiu Yao, Ananya Kumar, Chelsea Finn. “Conservative Prediction via Data-Driven Confidence Minimization”. [Transactions on Machine Learning Research \(TMLR 2024\)](#), [ICLR 2023](#) (11th International Conference on Learning Representations) Workshops: TrustML, ME-FoMo
- [17] Annie S. Chen*, **Yoonho Lee***, Amrith Setlur, Sergey Levine, Chelsea Finn. “Project and Probe: Sample-Efficient Domain Adaptation by Interpolating Orthogonal Features”. [ICLR 2024, Spotlight](#) (12th International Conference on Learning Representations, top 5% of submissions), [ICLR 2023](#) (11th International Conference on Learning Representations) Workshops: TrustML (**Oral**), ME-FoMo
- [16] Johnathan Wenjia Xie, **Yoonho Lee**, Annie S. Chen, Chelsea Finn. “Self-Guided Masked Autoencoders for Domain-Agnostic Self-Supervised Learning”. [ICLR 2024](#) (12th International Conference on Learning Representations)
- [15] Eric Mitchell, **Yoonho Lee**, Alexander Khazatsky, Christopher D Manning, Chelsea Finn. “DetectGPT: Zero-Shot Machine-Generated Text Detection using Probability Curvature”. [ICML 2023, Oral](#) (40th International Conference on Machine Learning, top 2% of submissions)
- [14] **Yoonho Lee***, Annie S. Chen*, Fahim Tajwar, Ananya Kumar, Huaxiu Yao, Percy Liang, Chelsea Finn. “Surgical Fine-Tuning Improves Adaptation to Distribution Shifts”. [ICLR 2023](#) (11th International Conference on Learning Representations)

- [13] **Yoonho Lee**, Huaxiu Yao, Chelsea Finn. “*Diversify and Disambiguate: Out-of-Distribution Robustness via Disagreement*”. **ICLR 2023** (11th International Conference on Learning Representations)
- [12] **Yoonho Lee**, Chelsea Finn, Stefano Ermon. “*Relaxing the Kolmogorov Structure Function for Realistic Computational Constraints*”. Workshop on Information-Theoretic Principles in Cognitive Systems, **NeurIPS 2022** (36th Conference on Neural Information Processing Systems)
- [11] Balhae Kim, Jungwon Choi, Seanie Lee, **Yoonho Lee**, Jung-Woo Ha, Juho Lee. “*On Divergence Measures for Bayesian Pseudocoresets*”. **NeurIPS 2022** (36th Conference on Neural Information Processing Systems)
- [10] 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*”. **NeurIPS 2022** (36th Conference on Neural Information Processing Systems), Datasets & Benchmarks track
- [9] **Yoonho Lee**, Wonjae Kim, Wonpyo Park, Seungjin Choi. “*Discrete Infomax Codes for Supervised Representation Learning*”. Special issue “Theory and Applications of Information Processing Algorithms”, **Entropy 2022**
- [8] Giung Nam*, Jongmin Yoon*, **Yoonho Lee**, Juho Lee. “*Diversity Matters When Learning From Ensembles*”. **NeurIPS 2021** (35th Conference on Neural Information Processing Systems)
- [7] Minkyo Seo*, **Yoonho Lee***, Suha Kwak. “*On the Distribution of Penultimate Activations of Classification Networks*”. **UAI 2021** (37th Conference on Uncertainty in Artificial Intelligence)
- [6] **Yoonho Lee**, Juho Lee, Sung Ju Hwang, Eunho Yang, Seungjin Choi. “*Neural Complexity Measures*”. **NeurIPS 2020** (34th Conference on Neural Information Processing Systems)
- [5] Juho Lee*, **Yoonho Lee***, Jungtaek Kim, Eunho Yang, Sung Ju Hwang, Yee Whye Teh. “*Bootstrapping Neural Processes*”. **NeurIPS 2020** (34th Conference on Neural Information Processing Systems)
- [4] Wonjae Kim, **Yoonho Lee**. “*Learning Dynamics of Attention: Human Prior for Interpretable Machine Reasoning*”. **NeurIPS 2019** (33rd Conference on Neural Information Processing Systems)
- [3] Juho Lee, **Yoonho Lee**, Yee Whye Teh. “*Deep Amortized Clustering Oral*”. Sets and Partitions Workshop at **NeurIPS 2019** (33rd Conference on Neural Information Processing Systems, **oral presentation**)
- [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*”. **ICML 2019** (36th International Conference on Machine Learning)
- [1] **Yoonho Lee**, Seungjin Choi. “*Gradient-based meta-learning with learned layerwise metric and subspace*”. **ICML 2018** (35th International Conference on Machine Learning)

Fellowships and Grants

HAI Google Cloud Credits Award , Stanford HAI, \$15,000	2025–2026
OpenAI Superalignment Fellowship , OpenAI, \$150,000 (50/2700 proposals)	2024
Microsoft Accelerate Foundation Models Research Grant , Microsoft Research, \$20,000	2023–2024
HAI Google Cloud Credits Award , Stanford HAI, \$15,000	2022–2023
KFAS Doctoral Fellowship , Korea Foundation for Advanced Studies	2021–present
Presidential Science Scholarship , Korea Student Aid Foundation	2012–2016

Mentoring

Zhengxu (Jason) Yan	2025-current
Teresa Zhang	2025-current
Roshen Nair	2025-current
Victor Kolev	2025
Ryan Park	2025

Jonathan Williams (Next: PhD at Princeton)	2023-2024
Jubayer Ibn Hamid (Next: PhD at Stanford)	2024-2025
Johnathan Wenjia Xie (Next: Tesla)	2024
Fahim Tajwar (Next: PhD at CMU)	2023
Caroline Choi (Next: PhD at Stanford)	2022

Professional Service

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

Reviewer: NeurIPS (2018-2025), ICML (2019-2025), ICLR (2021-2026), NeurIPS workshop proposals (2024-2025), ICML workshop proposals (2024), AAAI (2024-2025), AISTATS (2019-2022), IJCAI (2019-2021), ACML (2019-2020), ME-FoMo@ICLR (2023), TrustML@ICLR (2023).

Talks and Presentations

SPIGM Workshop @ NeurIPS 2025 (Invited Talk), San Diego, CA, USA	Dec. 2025
Moveworks, Mountain View, CA, USA	Dec. 2024
UIST 2024, Pittsburgh, PA, USA	Oct. 2024
Centre for Frontier AI Research, Online	Aug. 2023
MosaicML, Online	Aug. 2023
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
Post-NeurIPS Workshop @ KSC2020, Online	Dec. 2020
NeurIPS 2020, Online	Dec. 2020
NeurIPS 2019, Vancouver, Canada	Dec. 2019
Second Korea-Japan Machine Learning Workshop, South Korea	Feb. 2019
ICML 2018, Stockholm, Sweden	Jul. 2018

Teaching Experience

Teaching Assistant, CS330 Deep Multi-Task and Meta Learning, Stanford University	Sep. 2023 - Dec. 2023
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, CSED101 Programming and Problem Solving, POSTECH	Mar. 2017 - Jun. 2017