Ying Fan

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yingfan@cs.wisc.edu

EDUCATION

Department of Computer Sciences, UW-Madison Madison, WI, USA
PhD Student, GPA: 3.9/4.0 Sep 2019 – May 2025 (expected)
Advisor: Kangwook Lee

Yuanpei College, Data Science Major, Peking University Beijing, China
Bachelor of Science, Overall GPA: 3.6/4.0; Major GPA: 3.8/4.0 Sep 2015 – Jul 2019

PAPERS

Ying Fan, Yilun Du, Kannan Ramchandran, Kangwook Lee
Looped Transformers for Length Generalization
Arxiv 2024

Ying Fan, Steve Yadlowsky, Dimitris Papailiopoulos, Kangwook Lee
Transformers Learn Meta-Skills for Task Generalization
Arxiv 2024

Ying Fan, Jingling Li, Adith Swaminathan, Aditya Modi, Ching-An Cheng
How to Solve Contextual Goal-Oriented Problems with Offline Datasets?
NeurIPS 2024

Zhenmei Shi*, Yifei Ming*, **Ying Fan***, Frederic Sala, Yingyu Liang
Domain Generalization with Nuclear Norm Regularization
CPAL 2024

Ying Fan*, Olivia Watkins, Yuqing Du, Hao Liu, Moonkyung Ryu, Craig Boutilier, Pieter Abbeel,
Mohammad Ghavamzadeh, Kangwook Lee, Kimin Lee*
DPOK: Reinforcement Learning for Fine-tuning Text-to-Image Diffusion Models
NeurIPS 2023

Krishnamurthy Dj Dvijotham, Shayegan Omidshafiei, Kimin Lee, Katherine M. Collins, Deepak
Ramachandran, Adrian Weller, Mohammad Ghavamzadeh, Milad Nasr, **Ying Fan**, Jeremiah Zhe Liu
Algorithms for Optimal Adaptation of Diffusion Models to Reward Functions
ICML 2023 Workshop Frontiers4LCD

Ying Fan, Kangwook Lee
Optimizing DDPM Sampling with Shortcut Fine-Tuning
ICML 2023

Dohyun Kwon, **Ying Fan**, Kangwook Lee
Score-based Generative Modeling Secretly Minimizes the Wasserstein Distance
NeurIPS 2022

Yifei Ming*, **Ying Fan***, Yixuan Li
POEM: Out-of-distribution Detection with Posterior Sampling
ICML 2022 (Long talk ~2%)

Ying Fan, Yifei Ming
Model-based Reinforcement Learning for Continuous Control with Posterior Sampling
ICML 2021, (Long talk ~3%)

(* equal contribution)

WORK EXPERIENCES

Research Intern, Google   May 2024 – Aug 2024
Mentor: Qifei Wang

Student Researcher, Google   Feb 2023 – Nov 2023
Mentor: Kimin Lee

Research Intern, Microsoft Research   Jun 2022 – Aug 2022
Mentor: Ching-An Cheng

ACADEMIC SERCIVES

Conference reviewer: ICML 2022, 2023, 2024, NeurIPS 2022, 2023, 2024, ICLR 2024, 2025

HONORS & AWARDS

Research assistantship from Institute of Foundations of Data Science, UW-Madison
Founder Scholarship, Peking University (top 5%)
Award for Academic Excellence, Peking University (top 5%)