

# Ying Fan

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## EDUCATION

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**Department of Computer Sciences, UW-Madison**

PhD Student, GPA: 3.9/4.0

Madison, WI, USA

Sep 2019 – May 2025 (expected)

**Yuanpei College, Data Science Major, Peking University**

Bachelor of Science, Overall GPA: 3.6/4.0; Major GPA: 3.8/4.0

Beijing, China

Sep 2015 – Jul 2019

## PAPERS

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**Ying Fan**, Yilun Du, Kannan Ramchandran, Kangwook Lee

*Looped Transformers for Length Generalization*

**NeurIPS 2024 Workshop MATH-AI**

**Ying Fan**, Steve Yadlowsky, Dimitris Papailiopoulos, Kangwook Lee

*Transformers Learn Meta-Skills for Task Generalization*

**NeurIPS 2024 Workshop Compositional Learning**

**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

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Student Researcher, Google LLC Mentor: Qifei Wang	Sep 2024 – Now
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Research Intern, Google LLC Mentor: Qifei Wang	May 2024 – Aug 2024
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Student Researcher, Google LLC Mentor: Kimin Lee	Feb 2023 – Nov 2023
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Research Intern, Microsoft Research Mentor: Ching-An Cheng	Jun 2022 – Aug 2022
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## ACADEMIC SERCIVES

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

## HONORS & AWARDS

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Rising Stars in Machine Learning, University of Maryland (2024)  
NeurIPS Scholar Award (2023)  
Founder Scholarship, Peking University (top 5%)  
Award for Academic Excellence, Peking University (top 5%)