

YIFEI WANG

Beijing, China

☎ +86-176-1113-6518 ✉ yifei_wang@pku.edu.cn 🧑 yifeiwang77.github.io

EDUCATION

Peking University, School of Mathematical Sciences 09 2019 – 07 2023 (expected)
Ph.D. Candidate - Applied Math - Advisor: Jiansheng Yang Beijing, China
Member of ZERO Lab - Co-Advisors: Yisen Wang & Zhouchen Lin

Peking University, School of EECS 09 2017 – 09 2019
Master Candidate - Machine Perceptron - Advisor: Tong Lin Beijing, China

Peking University, School of Mathematical Sciences 09 2013 – 07 2017
Bachelor of Science Beijing, China

Peking University, Department of Philosophy 09 2014 – 07 2017
Bachelor of Art (Double Degree) Beijing, China

RESEARCH AREAS

- Machine Learning
- Statistical Inference
- Deep Learning and Applications

RESEARCH INTERESTS

- Self-Supervised Learning
- Probabilistic Inference and Generative Models
- Adversarial Machine Learning
- Graph Neural Networks and Diffusion Process

PUBLICATIONS

- Chaos is a Ladder: A New Theoretical Understanding of Contrastive Learning via Augmentation Overlap* 2022
- **Yifei Wang***, Qi Zhang*, Yisen Wang, Jiansheng Yang, Zhouchen Lin
 - International Conference on Learning Representations (ICLR)
- A Unified Contrastive Energy-based Model for Understanding the Generative Ability of Adversarial Training* 2022
- **Yifei Wang**, Yisen Wang, Jiansheng Yang, Zhouchen Lin
 - International Conference on Learning Representations (ICLR)
- Residual Relaxation for Multi-view Representation Learning* 2021
- **Yifei Wang**, Zhengyang Geng, Feng Jiang, Chuming Li, Yisen Wang, Jiansheng Yang, Zhouchen Lin
 - Advances in Neural Information Processing Systems (NeurIPS)
- Dissecting the Diffusion Process in Linear Graph Convolutional Networks* 2021
- **Yifei Wang**, Yisen Wang, Jiansheng Yang, Zhouchen Lin
 - Advances in Neural Information Processing Systems (NeurIPS)
- Optimization-induced Implicit Graph Diffusion* 2022
- Qi Chen, **Yifei Wang**, Yisen Wang, Zhouchen Lin
 - International Conference on Machine Learning (ICML)
- G²CN: Graph Gaussian Convolution Networks with Concentrated Graph Filters* 2022
- Mingjie Li, Xiaojun Guo, **Yifei Wang**, Yisen Wang, Zhouchen Lin
 - International Conference on Machine Learning (ICML)
- Reparameterized Sampling for Generative Adversarial Networks* 2021
- **Yifei Wang**, Yisen Wang, Jiansheng Yang, Zhouchen Lin
 - The European Conference on Machine Learning and Principles and Practice of Knowledge Discovery (ECML-PKDD)
 - **BEST (STUDENT) MACHINE LEARNING PAPER AWARD**

Demystifying Adversarial Training via A Unified Probabilistic Framework

2021

- **Yifei Wang**, Yisen Wang, Jiansheng Yang, Zhouchen Lin
- International Conference on Machine Learning AML Workshop (**ICML-W**)
- **SILVER BEST PAPER AWARD**

Train Once, and Decode as You Like

2020

- Chao Tian, **Yifei Wang**, Hao Cheng, Yijiang Lian, Zhihua Zhang
- International Committee on Computational Linguistics (**COLING**)

SELECTED HONORS AND AWARDS

- **National Scholarship**, Chinese Government (**top 0.1%**)
- **Presidential Scholarship**, Peking University (**top 0.1%**)
- **Best (Student) Machine Learning Paper Award**, ECML-PKDD 2021 (**1/685**)
- **Silver Best Paper Award**, ICML 2021 workshop on AML
- **Meritorious Winner (First Prize)**, Mathematical Contest in Modeling

INTERNSHIP

Huawei Noah's Arch Lab

09 2021 – now

Research Intern

Beijing, China

- Research on Self-supervised Learning.

Huawei Noah's Arch Lab

09 2019 – 03 2020

Research Intern

Beijing, China

- Research on Representation Disentanglement of Robust and Sensitive Features.

Baidu's Phoenix Nest

09 2018 – 03 2019

Research Intern

Beijing, China

- Research on End-to-end AD Selection with Reinforcement Learning.

TECHNICAL SKILLS

Languages: Python, MATLAB

Technologies/Frameworks: Linux, Git, PyTorch