

# YIFEI WANG (王一飞)

Beijing, China

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## 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, THU-A**)
- 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, THU-A**)
- 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, CCF-A**)
- 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, CCF-A**)
- Optimization-induced Graph Implicit Nonlinear Diffusion* 2022
- Qi Chen, **Yifei Wang**, Yisen Wang, Zhouchen Lin
  - International Conference on Machine Learning (**ICML, CCF-A**)
- G<sup>2</sup>CN: 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, CCF-A**)
- Reparameterized Sampling for Generative Adversarial Networks* 2021
- **Yifei Wang**, Yisen Wang, Jiansheng Yang, Zhouchen Lin
  - The European Conference on Machine Learning (**ECML, CCF-B**)
  - **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, CCF-A**)
- **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, CCF-B**)

## SELECTED HONORS AND AWARDS

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- **National Scholarship (国家奖学金)**, Ministry of Education (**top 1%**)
- **President's Scholarship (校长奖学金)**, Peking University (**top 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

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**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

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**Languages:** Python, MATLAB

**Technologies/Frameworks:** Linux, Git, PyTorch