

Zhanpeng Zhou

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EDUCATION

Shanghai Jiao Tong University

Ph.D. Computer Science, advised by Prof. Junchi Yan

Shanghai, China

Sep 2022 – June 2027 (Expected)

Shanghai Jiao Tong University

B.S. Electrical And Computer Engineering, Minor in Data Science

Shanghai, China

Sep 2018 – Aug 2022

- Course Works: Probability Methods in Eng. (A+), Methods of Applied Math (A+), etc

RESEARCH EXPERIENCE

National Institute of Informatics

Research Intern, Advisor: Dr. Mahito Sugiyama

Tokyo, Japan

Sep 2023 – March 2024

Mila Quebec, HEC Montréal

Research Intern, Advisor: Dr. Jian Tang (CIFAR Chair)

Montreal, Canada

Mar 2021 – Jun 2021

PUBLICATIONS

The Role of Label Noise in the Feature Learning Process

In Submission

Andi Han, Wei Huang*, Zhanpeng Zhou*, Gang Niu, Wuyang Chen, Junchi Yan, Akiko Takeda, Taiji Suzuki*

Sharpness-Aware Minimization Efficiently Selects Flatter Minima Late in Training

In Submission

Zhanpeng Zhou, Mingze Wang*, Yuchen Mao, Bingrui Li, Junchi Yan*

On the Optimization and Generalization of Two-layer Transformers with Sign Gradient Descent

In Submission

Bingrui Li, Wei Huang, Andi Han, Zhanpeng Zhou, Taiji Suzuki, Jun Zhu, Jianfei Chen

On the Emergence of Cross-Task Linearity in the Pretraining-Finetuning Paradigm

ICML 2024

Zhanpeng Zhou, Zijun Chen*, Yilan Chen, Bo Zhang, Junchi Yan*

The Network Feature Complexity and Its Interpretation Using Category Theory

ICLR 2024

Yiting Chen, Zhanpeng Zhou, Junchi Yan

Going Beyond Linear Mode Connectivity: Layerwise Linear Feature Connectivity

NeurIPS 2023

Zhanpeng Zhou, Yongyi Yang, Xiaojiang Yang, Junchi Yan, Wei Hu

Defects of Convolutional Decoder Networks in Frequency Representation

ICML 2023

Ling Tang, Wen Shen, Zhanpeng Zhou, Quanshi Zhang

Batch Normalization Is Blind to the First and Second Derivatives of the Loss

AAAI 2024 (Oral)

Zhanpeng Zhou, Wen Shen*, Huixin Chen*, Ling Tang, Quanshi Zhang*

Can We Faithfully Represent Absence States to Compute Shapley Values on a DNN?

ICLR 2023

Jie Ren, Zhanpeng Zhou, Qirui Chen, Quanshi Zhang

Towards a Unified Game-Theoretic View of Adversarial Perturbations and Robustness

NeurIPS 2021

Jie Ren, Die Zhang*, Yisen Wang*, Lu Chen, Zhanpeng Zhou, Xu Cheng, Xin Wang, Yiting Chen, Jie Shi, Quanshi Zhang*

SELECTED AWARDS AND HONORS

2024 Mar. Excellent Internship Evaluation, National Institute of Informatics
2022 May. Outstanding Graduate Student, Shanghai Jiao Tong University
2021 Dec. Pu Yuan Future Talents Scholarship, Shanghai Jiao Tong University
2021 Nov. Yu Liming Scholarship, Shanghai Jiao Tong University
2020 Nov. John Wu & Jane Sun Excellence Scholarship, Shanghai Jiao Tong University
2019 Dec. First prize of Midea Innovation Competition, Midea Inc.
2019 Aug. Best Technology Award in Summer Design Expo, Shanghai Jiao Tong University
2019 May. First Prize of Freshman Robotics Competition, Shanghai Jiao Tong University

SERVICES

Conference Reviewer: ICML ('22, '24), NeurIPS ('22-24), CVPR '24, ICLR ('24-25), AISTATS '25, AAAI '25
Journal Reviewer: T-PAMI, Intelligent Computing (Science Partner)

TEACHING EXPERIENCE

FA. 2021: Bayesian Analysis (VE414), Teaching Assistant, Shanghai Jiao Tong University
SU. 2021: Probabilistic Methods in Eng. (VE401), Teaching Assistant, Shanghai Jiao Tong University