Zhanpeng Zhou

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EDUCATION

Shanghai Jiao Tong University
Shanghai, China
Ph.D. Computer Science, advised by Prof. Junchi Yan
Sep 2022 – June 2027 (Expected)

Shanghai Jiao Tong University
Shanghai, China
B.S. Electrical And Computer Engineering, Minor in Data Science
Sep 2018 – Aug 2022
- Course Works: Probability Methods in Eng. (A+), Methods of Applied Math (A+), etc

RESEARCH EXPERIENCE

National Institute of Informatics
Tokyo, Japan
Research Intern, Advisor: Dr. Mahito Sugiyama
Sep 2023 – March 2024

Mila Quebec, HEC Montréal
Montreal, Canada
Research Intern, Advisor: Dr. Jian Tang (CIFAR Chair)
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, UM-SJTU JI
2021 Nov. Yu Liming Scholarship, UM-SJTU JI
2020 Nov. John Wu & Jane Sun Excellence Scholarship, UM-SJTU JI
2019 Dec. First prize of Midea Innovation Competition, Midea Inc.
2019 Aug. Best Technology Award in Summer Design Expo, UM-SJTU JI
2019 May. First Prize of Freshman Robotics Competition, UM-SJTU JI

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, UM-SJTU JI
SU. 2021: Probabilistic Methods in Eng. (VE401), Teaching Assistant, UM-SJTU JI