Zhanpeng Zhou

+86 177-1755-7410 | zzp1012@sjtu.edu.cn | Homepage

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

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   *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*

Awards

2024 Nov. National Scholarship (top 0.2%), Ministry of Education
2024 Mar. Top 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, NeurIPS, CVPR, ICLR, AISTATS, AAAI
Journal Reviewer: T-PAMI, Intelligent Computing (Science Partner)

Teaching

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