

# 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)*

### University of Michigan - Shanghai Jiao Tong University Joint Institute

*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 (Expected)*

### MILA (founded by Yoshua Bengio), HEC Montréal

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

Montreal, Canada

*Mar 2021 – Jun 2021*

## PUBLICATIONS

### 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

*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*

## WORKING PAPERS

### The Network Feature Complexity and Its Interpretation Using Category Theory

In Submission

*Yiting Chen, Zhanpeng Zhou, Junchi Yan*

## SELECTED AWARDS AND HONORS

**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 ('22-23), CVPR '24, ICLR '24

**Journal Reviewer:** T-PAMI, Intelligent Computing (Science Partner)

## TEACHING EXPERIENCE

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**FA. 2021:** Bayesian Analysis (VE414), Teaching Assistant, UM-SJTU JI

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