# 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)*

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

**Cross-Task Linearity Emerges 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 ('22-23), CVPR '24, ICLR '24
**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