

Zhiyu Xue

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[\[Google Scholar\]](#) [\[LinkedIn\]](#)

EDUCATION

Michigan State University (MSU)
Graduate Student of Engineering in Computer Science
GPA: 3.8/4.0

East Lansing, USA
Fall 2021

University of Electronic Science and Technology of China (UESTC)
Bachelor of Engineering in Data Science and Big Data Technology
GPA: 3.81/4.0; 87.9/100

Chengdu, China
Fall 2017

PUBLICATIONS & PREPRINTS

Relative Position and Map Networks in Few-shot Learning for Image Classification

Zhiyu Xue, Zhenshan Xie, Zheng Xing, Lixin Duan
CVPR Workshops, 2020, pp. 932-933 [\[Paper\]](#) [\[Codes\]](#)

Differentially Private Pairwise Learning Revisited

Zhiyu Xue*, Shaoyang Yang*, Mengdi Huai, and Di Wang (*equal contribution)
IJCAI, 2021 [\[Paper\]](#)

Region Comparison Network for Interpretable Few-shot Image Classification

Zhiyu Xue, Lixin Duan, Wen Li, Lin Chen, Jiebo Luo
arXiv preprint, 2020, arXiv:2009.03558 [\[Paper\]](#) [\[Codes\]](#)

UNDER REVIEW MANUSCRIPTS

1 Paper About Group Fairness on AdaBoost Submitted to ICDM 2022 (First Author)

1 Paper About Multi-modal Early Detection of Dementia Submitted to Pacific Symposium on Biocomputing 2023 (Second Author)

1 Paper About Long-tailed Heterogeneous Federated Learning Submitted to ICLR 2023 (First Author)

1 Paper About Adversarial Robustness Submitted to ICLR 2023 (First Author)

INDUSTRIAL EXPERIENCES

Intern, ByteDance AI Lab, Beijing, China

Mar. 2021-Jun. 2021

- Developed deep learning models for fine-grained food image classification and retrieval under the extreme long-tailed dataset generated by TikTok or TouTiao
- Matched the fine-grained food videos and their relative texts on TikTok by deep learning models

Intern, Big Data R & D Centre of Fintell Fintech Inc, Beijing, China

Jun. 2019-Jul. 2019

- Maintained the database and established a new version of dataset for risk management modelling
- Developed a model with Apriori and GBDT algorithm to provide the company with better plans and solutions based on the company's database

RESEARCH EXPERIENCES

Research Assistant of [ILLIDAN Lab](#), MSU

Aug. 2021-Present

Supervised by Prof. Jiayu Zhou on Model Fairness and Federated Learning

Research Assistant of [Data Intelligence Group](#), UESTC

Aug. 2018-Dec. 2020

Supervised by [Prof. Lixin Duan](#) on Few-shot Learning for Image Classification

Intern of [PART Lab](#), King Abdullah University of Science and Technology

May. 2020-Dec. 2020

Supervised by [Prof. Di Wang](#) on Differential Privacy for Pairwise Learning

Intern of [VISTA Group](#), University of Rochester

Dec. 2019-Feb. 2020

Supervised by [Prof. Jiebo Luo](#) and [Prof. Wen Li](#) on Interpretable Few-Shot Learning

Intern of [Explainable AI Group](#), Shanghai Jiao Tong University

Jun. 2020 -Aug. 2020

Supervised by [Prof. Quanshi Zhang](#) for Explainable Deep Learning Models

HONORS AND AWARDS

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|---|-------------------------|
| Reviewer of CVPR 2020 VL3 Workshop | Mar. 2020 |
| Sub-reviewer of KDD 2022 & CHASE 2022 | Apr. 2021 |
| Excellent Student Scholarship at UESTC | Sept. 2018 & Sept. 2019 |
| 2 nd Prize (Group Award) of Mathematical Modelling Competition at UTSEC | Sept. 2018 |
| National 1 st Prize of the Fifth National College Students Art Exhibition, Viola Performance | Apr. 2018 |

LEADERSHIP AND ACTIVITIES

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|---|---------------------|
| Founder , Hongya Markoo Children Programming Centre, Hongya, China | Jun. 2019-Jul. 2019 |
| Participant , Summer Camp on Innovation and Global Leadership, UC Berkeley, USA | Aug. 2018 |
| Kindergarten Volunteer Teacher , Sri Lanka International Volunteer Support Programme | Dec. 2017-Jan. 2018 |

ADDITIONAL INFORMATION

Language Skill: Chinese (Native), English (Fluent)

Computer Skills: Python (Numpy, Pandas, Pytorch and so on), C, Java, Linux, MATLAB

Interests: Music (Member of UESTC Orchestra Playing Viola)