Zhiyu Xue

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[Google Scholar] [LinkedIn]

EDUCATION

Michigan State University (MSU)   **East Lansing, USA**
Graduate Student of Engineering in Computer Science   **Fall 2021**
GPA: 3.8/4.0

University of Electronic Science and Technology of China (UESTC)   **Chengdu, China**
Bachelor of Engineering in Data Science and Big Data Technology   **Fall 2017**
GPA: 3.81/4.0; 87.9/100

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

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**
2nd Prize (Group Award) of Mathematical Modelling Competition at UTSEC	**Sept. 2018**
National 1st Prize of the Fifth National College Students Art Exhibition, Viola Performance	**Apr. 2018**

LEADERSHIP AND ACTIVITIES

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)