

# Zhiyu Xue

Phone: (+1) 517-944-9646 / Email: xzy990228@gmail.com

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

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## EDUCATION

**Michigan State University (MSU)**  
(Ongoing) Master 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

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## 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 [\[Paper\]](#) [\[Codes\]](#)

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## 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)

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## 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

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

## LEADERSHIP AND ACTIVITIES

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

## ADDITIONAL INFORMATION

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**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)