Zihui (Sherry) Xue

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https://zihuixue.github.io

EDUCATION BACKGROUND

The University of Texas at Austin GPA: 4.0/4.0 Sep. 2020 – Jun. 2025 (expected)
Ph.D. student, Department of Electrical and Computer Engineering

Fudan University Rank: 10/189 GPA: 3.66/4.0 Sep. 2016 – Jun. 2020
B.E. in Electronic and Information Science and Technology
Semester GPA: 3.85/4.0 (2017-2018), 3.94/4.0 (2018-2019)
Selected to Elite Engineering Program (top 5%)

University of California, Santa Barbara (Exchange Program) GPA: 4.0/4.0 Sep. 2018 – Dec. 2018
The College of Engineering Dean's Honors List

PUBLICATIONS

o **Z. Xue,** Y. Yang, M. Yang and R. Marculescu, "SUGAR: Efficient Subgraph-level Training via Resource-aware Graph Partitioning," *arXiv preprint*, 2022. [PDF]

o S. Ren, Z. Gao, T. Hua, **Z. Xue**, Y. Tian, S. He, and H. Zhao, "Co-advise: Cross Inductive Bias Distillation," *arXiv preprint*, 2021. [PDF]

o Y. Huang, C. Du, **Z. Xue** and H. Zhao, "What Makes Multi-Modal Learning Better than Single (Provably)," *Conference on Neural Information Processing Systems (NeurIPS)*, 2021. [PDF]

o Y. Yang, **Z. Xue**, and R. Marculescu, "Anytime Depth Estimation with Limited Sensing and Computation Capabilities on Mobile Devices," *Conference on Robot Learning (CoRL)*, 2021. [PDF]

o **Z. Xue**, S. Ren, Z. Gao, and H. Zhao, "Multimodal Knowledge Expansion," *International Conference on Computer Vision (ICCV)*, 2021. [PDF][website]

o T. Hua, W. Wang, **Z. Xue** and H. Zhao, "On Feature Decorrelation in Self-Supervised Learning," *International Conference on Computer Vision (ICCV)*, 2021. [PDF][website]

o S. Jiao, **Z. Xue**, X. Chen, and Y. Xu, "Sampling Graphlets of Multi-layer Networks: A Restricted Random Walk Approach," *ACM Transactions on the Web (TWEB)*, 2021. [PDF]

RESEARCH INTERESTS

o Multimodal Learning, Self-supervised Learning, General Machine Learning
o Efficient Deep Learning, Graph Neural Networks

RESEARCH EXPERIENCE

The System Level Design (SLD) Group, The University of Texas at Austin
Research Assistant to Prof. Radu Marculescu, Graph Learning and Edge Computing Sep. 2021 – present

MARS Lab, Tsinghua University
Research Assistant to Prof. Hang Zhao, Multimodal Learning and Self-supervised Learning Aug. 2020 – Aug. 2021

Multimedia and Mobile Networking Group (MediaNET), Fudan University

Research Assistant to Prof. Yuedong Xu, Graph Sampling   Apr. 2018 – Jun. 2020

Prof. Zheng Zhang's research group, University of California, Santa Barbara

Research Assistant to Prof, Zheng Zhang, Bayesian Tensor Learning   Dec. 2018 – Aug. 2019

INTERNSHIP EXPERIENCE

NLP Algorithm Intern, **Ping An Technology**   Mar. 2019 – June. 2019

o   Investigated state-of-the-art Named Entity Recognition (NER) models and compared their performances;

o   Built, evaluated and improved current NER models for Chinese medical cases;

o   Annotated Chinese medical cases and maintained the datasets of medical cases and their annotations.

SCHOLARSHIPS & AWARDS

o   National Second Prize & Shanghai Division First Prize in 2018 China Undergraduate Mathematical Contest in Modeling;

o   Ranked 8/2115 teams in the first round and 13/2116 teams in the second round in 2018 Alibaba Global Scheduling Algorithm Competition;

o   Second Prize of the Scholarship for Outstanding Students at Fudan University in the 2019-2020 academic year;

o   Tung OOCL Scholarship at Fudan University (the First Prize) in the 2017-2018 academic year;

o   Third Prize of the Scholarship for Outstanding Students at Fudan University in the 2016-2017 academic year.

EXTRACURRICULAR ACTIVITIES

Volunteer of World Artificial Intelligence Conference, Fudan University   Sep. 2018 – Sep. 2018

Deputy Minister of Arts Department, Student Union, Fudan University   Oct. 2017 – Oct. 2018

SKILLS

Programing language: Python, MATLAB, C/C++, Linux, Verilog

Language skills: TOEFL108 (R30 L30 S25 W23); GRE327 (Q168 V159 W4.0)