

# ZIHUI (SHERRY) XUE

[sherryxue@utexas.edu](mailto:sherryxue@utexas.edu)  
<https://zihuixue.github.io>

## EDUCATION

---

**The University of Texas at Austin** Sep 2020 – Present

*Ph.D. in Electrical and Computer Engineering*

- GPA: 4.00/4.00, Advisor: Prof. Kristen Grauman
- Research interests: video understanding, egocentric (first-person) vision, multimodal learning

**Fudan University** Sep 2016 – Sep 2020

*B.E. in Electronic and Information Science and Technology*

- GPA: 3.66/4.00, Advisor: Prof. Yuedong Xu
- Elite Engineering Program (top 5%)

**University of California, Santa Barbara (Exchange Program)** Sep 2018 – Dec 2018

*UCEAP Exchange Program*

- GPA: 4.00/4.00
- The College of Engineering Dean's Honors List

## PUBLICATIONS

---

1. **Z Xue**, K Ashutosh, K Grauman, “Learning Object State Changes in Videos: An Open-World Perspective”, arXiv preprint. [\[PDF\]](#) [\[webpage\]](#)
2. K Ashutosh, **Z Xue**, T Nagarajan, K Grauman, “Detours for Navigating Instructional Videos”, arXiv preprint. [\[PDF\]](#)
3. K Grauman, A Westbury, L Torresani, K Kitani, J Malik, ..., **Z Xue** et al., “Ego-exo4d: Understanding skilled human activity from first-and third-person perspectives”, arXiv preprint. [\[PDF\]](#) [\[webpage\]](#)
4. **Z Xue**, K Grauman, “Learning Fine-grained View-Invariant Representations from Unpaired Ego-Exo Videos via Temporal Alignment”, NeurIPS, 2023. [\[PDF\]](#) [\[webpage\]](#)
5. **Z Xue**, Y Song, K Grauman, L Torresani, “Egocentric Video Task Translation”, **CVPR (highlight, top 2.5%)**, 2023. [\[PDF\]](#) [\[webpage\]](#)
6. **Z Xue**, R Marculescu, “Dynamic multimodal fusion”, CVPR MULA Workshop, 2023. [\[PDF\]](#) [\[code\]](#)
7. **Z Xue**, Z Gao, S Ren, H Zhao, “The modality focusing hypothesis: Towards understanding crossmodal knowledge distillation”, **ICLR (oral, top 5%)**, 2023. [\[PDF\]](#) [\[webpage\]](#)
8. **Z Xue**, Y Yang, R Marculescu, “SUGAR: Efficient Subgraph-level Training via Resource-aware Graph Partitioning”, IEEE Transactions on Computers, 2023. [\[PDF\]](#)
9. Y Yang, **Z Xue**, R Marculescu, “Anytime Depth Estimation with Limited Sensing and Computation Capabilities on Mobile Devices”, CoRL, 2022. [\[PDF\]](#)
10. S Ren, Z Gao, T Hua, **Z Xue**, Y Tian, S He, H Zhao, “Co-advise: Cross inductive bias distillation”, CVPR 2022. [\[PDF\]](#)
11. Y Huang, C Du, **Z Xue**, X Chen, H Zhao, L Huang, “What makes multi-modal learning better than single (provably)”, NeurIPS, 2021. [\[PDF\]](#)
12. T Hua, W Wang, **Z Xue**, S Ren, Y Wang, H Zhao, “On feature decorrelation in self-supervised learning”, **ICCV (oral, top 3%)**, 2021. [\[PDF\]](#) [\[webpage\]](#)
13. **Z Xue**, S Ren, Z Gao, H Zhao, “Multimodal knowledge expansion”, ICCV, 2021. [\[PDF\]](#) [\[webpage\]](#)
14. S Jiao, **Z Xue**, X Chen, Y Xu, “Sampling graphlets of multiplex networks: a restricted random walk approach”, ACM Transactions on the Web, 2021. [\[PDF\]](#)

## RESEARCH EXPERIENCE

---

**The University of Texas at Austin**  
*Research Assistant to Prof. Kristen Grauman, Video Understanding* Sep 2022 – Present

**FAIR, Meta AI**  
*Visiting Student Researcher, Video Understanding* Jan 2023 – Present  
*Research Intern to Lorenzo Torresani, Egocentric (First-Person) Video* May 2022 – Dec 2022

**The University of Texas at Austin***Research Assistant to Prof. Radu Marculescu, Efficient Learning*

Sep 2021 – May 2022

**Shanghai Qi Zhi Institute***Research Assistant to Prof. Hang Zhao, Multimodal Learning*

Aug 2020 – Aug 2021

**Fudan University***Research Assistant to Prof. Yuedong Xu, Graph Sampling*

Apr 2018 – Jun 2020

**University of California, Santa Barbara***Research Assistant to Prof. Zheng Zhang, Bayesian Tensor Learning*

Dec 2018 – Aug 2019

**HONORS AND AWARDS**

---

- 1st Place in Talking-To-Me, 3rd Place in PNR Keyframe Localization, Ego4D ECCV 23 Challenge 2023
- Second Prize of the Scholarship for Outstanding Student, Fudan University 2020
- Nation Second Prize in China Undergraduate Mathematical Contest in Modeling 2018
- Ranked 8/2115 (first round) and 13/2116 (second round) in Alibaba Global Scheduling Algorithm 2018
- Tung OOCL Scholarship (the First Prize), Fudan university 2018
- Third Prize of the Scholarship for Outstanding Students, Fudan University 2017

**MEDIA COVERAGE**

---

- Meta AI Research, “Overcoming challenges of video learning and multimodal perception” [\[Link\]](#) 2023
- Analytics India Magazine, “Top 8 papers by Meta AI” [\[Link\]](#) 2023
- Meta AI Blog, “Egocentric Video Task Translation” [\[Link\]](#) 2023

**PROFESSIONAL SERVICE**

---

- **Reviewer:** CVPR, ICCV, ECCV, NeurIPS, ICLR, ICML, IJCV