

Ziwei Xu

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Education

University of Science and Technology of China

Sep 2013 – Jul 2017

Bachelor of Engineering (Honors)

- Thesis: An Indoor Localization System based on High-level Visual Feature

National University of Singapore

Aug 2017 – Present

Ph.D. Candidate in Computer Science

- Advisor: Prof. Mohan S Kankanhalli

Research Interests

Understand the complexities of the visual world using compositional knowledge representations.

Areas: Computer Vision, Action Recognition, Multimodal Machine Learning.

Selected Publications

Ziwei Xu, Yogesh S Rawat, Yongkang Wong, Mohan S Kankanhalli, and Mubarak Shah, *Don't Pour Cereal into Coffee: Differentiable Temporal Logic for Temporal Action Segmentation*, NeurIPS 2022 (25% acceptance rate)

Ziwei Xu, Xudong Shen, Yongkang Wong, and Mohan S Kankanhalli, *Unsupervised Motion Representation Learning with Capsule Autoencoders*, NeurIPS, 2021 (26% acceptance rate).

Ziwei Xu, Guangzhi Wang, Yongkang Wong, and Mohan S Kankanhalli, *Relation-aware Compositional Zero-shot Learning for Attribute-Object Pair Recognition*, IEEE Transactions on Multimedia, 2021.

Junnan Li*, **Ziwei Xu***, Yongkang Wong, Qi Zhao, and Mohan S Kankanhalli, *GradMix: Multi-source Transfer across Domains and Tasks*, WACV, 2020.

Yaqi Xie*, **Ziwei Xu***, Kuldeep Meel, Mohan S Kankanhalli, and Harold Soh, *Embedding Symbolic Knowledge into Deep Networks*, NeurIPS, 2019 (21% acceptance rate).

* equal contributions.

Community Services

PC Member: AAAI (since 2021), IJCAI (since 2021), WACV (since 2021)

Working Experience

Aug 2021 – Feb 2022

Research Assistant: Center for Research in Computer Vision, University of Central Florida

Awards

Oct 2016

Outstanding Student Scholarship (for top 10% students), USTC

Dec 2016

Honored Enroller of *The Talent Program in Computer and Info. Sci. and Tech.*, USTC

Jul 2017

Outstanding Graduates, USTC

Dec 2020

Research Achievement Award, School of Computing, NUS

Aug 2022

Research Achievement Award, School of Computing, NUS