





ZHIHENG LI

Contact

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Education

University of Rochester

PhD in Computer Science

Aug. 2018 – Present

Advisor: Prof. Chenliang Xu

Wuhan University

Bachelor of Engineering in Software Engineering

Sep. 2014 – Jun. 2018

Research Interests

- Computer Vision
- Disentangled Representation Learning
- Image/Video Synthesis
- AI Fairness
- Image/Video Segmentation

Experience

NEC Labs America

Research Intern

06/2021 – 09/2021

Mentors: Martin Renqiang Min, Kai Li

- Leverage disentangled representation to improve the compositionality of text-to-image synthesis.

Publications

- “Debiasing Alternate Networks (DebiAN): Toward Discovering and Mitigating Unknown Biases,” **Zhiheng Li**, Anthony Hoogs, Chenliang Xu, *In Submission*, 2022
- “StyleT2I: Toward Compositional and High-Fidelity Text-to-Image Synthesis,” **Zhiheng Li**, Martin Renqiang Min, Kai Li, Chenliang Xu, *In Submission*, 2022
- “Discover the Unknown Biased Attribute of an Image Classifier,” **Zhiheng Li**, Chenliang Xu, *ICCV*, 2021
- “Deep Grouping Model for Unified Perceptual Parsing,” **Zhiheng Li**, Wenxuan Bao, Jiayang Zheng, Chenliang Xu, *CVPR*, 2020
- “Learning a Weakly-Supervised Video Actor-Action Segmentation Model with a Wise Selection,” Jie Chen, **Zhiheng Li**, Ross K Maddox, Jiebo Luo, Chenliang Xu, *CVPR*, 2020 (**Oral**)
- “Graph Neural Network Based Coarse-Grained Mapping Prediction,” **Zhiheng Li**, Geemi P. Wellawatte, Maghesree Chakraborty, Heta A. Gandhi, Chenliang Xu, Andrew D. White, *Chemical Science*, 2020
- “Lip Movements Generation at a Glance,” Lele Chen*, **Zhiheng Li*** (*Equal Contribution), Ross K Maddox, Zhiyao Duan, Chenliang Xu, *ECCV*, 2018

Professional Services

Reviewer: NeurIPS’20, CVPR’21, ICML’21, ICCV’21, NeurIPS’21, ICLR’22, AAAI’22, CVPR’22, ICML’22

Volunteer: FAccT’21, ICLR’21

Technical Skills

Programming Languages: Python, Java, C, C++, Ruby, Swift, Objective-C, Common Lisp

Technologies/Frameworks: PyTorch, Caffe, MxNet, OpenCV