

Xiaohan Zhang

Email: Xiaohan.Zhang@uvm.edu

Office: *E434 Innovation*

Research Interests

Computer Vision, Deep Learning, Image Retrieval, Image Synthesis, Visual Geo-Localization, 3D Reconstruction

Education

- 2020 – Present **University of Vermont** – Burlington, Vermont
Ph.D. student, Computer Science
Advisor: Safwan Wshah
GPA: 3.91.
- 2018 – 2020 **University of California, Santa Cruz** – Santa Cruz, California
M.Sc., Computer Engineering
Advisor: Roberto Manduchi
GPA: 3.91.
- 2013 – 2017 **Michigan State University** – East Lansing, Michigan
B.Sc., Computer Engineering
GPA: 3.26.

Prizes and Scholarships

- 2023 Computer Science Graduate Award (The University of Vermont College of Engineering and Mathematical Sciences)
- 2023 AAAI-23 Student Scholarship (Association for the Advancement of Artificial Intelligence)
- 2022 Second Prize in UVM Computing Student Research Day (UVM CSRDay '22)

Publications

- 2023 **GeoDTR+: Toward generic cross-view geolocalization via geometric disentanglement**
Xiaohan Zhang, Xingyu Li, Waqas Sultani, Chen Chen, Safwan Wshah.
<https://arxiv.org/abs/2308.09624>
- 2023 **Cross-view Geo-localization via Learning Disentangled Geometric Layout Correspondence**
Xiaohan Zhang, Xingyu Li, Waqas Sultani, Yi Zhou, and Safwan Wshah.
AAAI-23.
- 2023 **Image and Object Geo-Localization**
Daniel Wilson, Xiaohan Zhang, Waqas Sultani, and Safwan Wshah.
International Journal of Computer Vision
- 2023 **Cross-View Image Sequence Geo-localization**
Xiaohan Zhang, Waqas Sultani, and Safwan Wshah.
Proceedings of the IEEE/CVF Winter Conference on Applications of Computer Vision. 2023.
- 2022 **LanePainter: Lane Marks Enhancement via Generative Adversarial Network**
Xiaohan Zhang and Safwan Wshah.
2022 26th International Conference on Pattern Recognition (ICPR), Montreal, QC, Canada, 2022, pp. 3668-3675, doi: 10.1109/ICPR56361.2022.9956446.
- 2022 **Object Tracking and Geo-Localization from Street Images**
Daniel Wilson, Thayer Alshaabi, Colin Van Oort, Xiaohan Zhang, Jonathan Nelson, and Safwan Wshah.
Remote Sensing 14, no. 11: 2575. <https://doi.org/10.3390/rs14112575>
- 2022 **Low-light Image Enhancement Using Chain-consistent Adversarial Networks**
Minghao Liu, Jiahao Luo, Xiaohan Zhang, Yang Liu, and James Davis.
2022 26th International Conference on Pattern Recognition (ICPR), Montreal, QC, Canada, 2022, pp. 713-719, doi: 10.1109/ICPR56361.2022.9956704.
- 2021 **Visual and Object Geo-localization: A Comprehensive Survey**
Daniel Wilson, Xiaohan Zhang, Waqas Sultani, and Safwan Wshah.
arXiv preprint arXiv:2112.15202

Reviewer for Journals and Conferences

The IEEE/CVF Conference on Computer Vision and Pattern Recognition

IEEE Transactions on Neural Networks and Learning Systems

ACM Multimedia Systems Conference 2023

MDPI Remote Sensing

MDPI Applied Sciences