

WENQI (WENDY) XIAN

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EDUCATION

Cornell University/Cornell Tech, New York, NY

Ph.D. in Computer Science

2018 – present

Advisor: Noah Snavely

Georgia Institute of Technology, Atlanta, GA

B.S. in Computer Science

2014 – 2018

Concentration: Intelligence and Media

RESEARCH INTERESTS

3D Computer Vision, Computational Photography, AR/VR. I'm interested in the intersections of computer vision and graphics for computational photography and videography.

PUBLICATIONS

Xian, W*., Li, Z.*, Fisher, M., Eisenmann, J., Schechtman, E., Snavely, N., UprightNet: Geometry-Aware Camera Orientation Estimation from Single Images. *IEEE International Conference on Computer Vision (ICCV) 2019*. *co-first author

Xian, W*., Sangkloy P.*, Agrawal, V., Raj, A., Lu J., Fang C., Yu F., Hays J., Texturegan: Controlling deep image synthesis with texture patches. *IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2018 (Spotlight Oral)*. *co-first author

Yu F., **Xian, W.**, Chen, Y., Liu, F., Liao, M., Madhavan V., Trevor D., Bdd100k: A diverse driving video database with scalable annotation tooling, *ArXiv: 1805.04687*

RESEARCH EXPERIENCE

Cornell Graphics and Vision Group

Graduate Research Assistant

May. 2018 – present
Ithaca/New York, NY

Advisors: Noah Snavely

Projects: Geometry-aware camera orientation estimation from single images; Temporal Feature-Crossing in Two-Task Training

Adobe Research

Research Intern

May. 2019 – Aug. 2019
Seattle, WA

Advisors: Oliver Wang, Matt Fisher, Eli Schechtman, Noah Snavely

Project: Deep video inpainting guided by 3D geometry constraints

Adobe Research

Research Intern

May. 2018 – Aug. 2018
San Francisco, CA

Advisors: Matt Fisher, J Eisenmann, Eli Schechtman

Project: Deep single image camera calibration

Georgia Institute of Technology

Undergraduate Research Assistant

Jan. 2017 – Jan. 2018
Atlanta, GA

Advisors: James Hays
Project: Deep image and texture synthesis

Berkeley Deep Drive Lab

Research Intern

Advisors: Trevor Darrell

Project: Large-scale driving dataset and annotation tool

May. 2017 – Aug. 2017

Berkeley, CA

AWARDS

World Second Place Winner of Microsoft Imagine Cup 2017	2017
Third Place in Atlanta Startup Battle	2017
President's Undergraduate Research Award	2017

TEACHING EXPERIENCE

Part-time Teaching Assistant

CS 5650 Virtual and Augmented Reality, Cornell Tech

Aug. 2019 – present

CS 5787 Deep Learning, Cornell Tech

Jan. 2019 – May. 2019

SKILLS

Programming Languages: Python, MATLAB, C/C++, HTML, JavaScript, Java

Tools: PyTorch, TensorFlow, Torch, OpenCV