

Haoyu Wu

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Education

Stony Brook University, NY

Ph.D. student in Computer Science

Sept. 2020 - Present

GPA 4.0/4.0

Advised by Prof. Dimitris Samaras

The Chinese University of Hong Kong, Shenzhen, China

B.S. in Statistics

Sept. 2016 - Jun. 2020

GPA 3.6/4.0, Core GPA 3.9/4.0 & **Rank 3/151**

Experience

Research Assistant

Stony Brook University, NY

Sept. 2020 - Present

- Conduct research on in-the-wild 3D reconstruction problems.
- Combine neural volumetric surface reconstruction methods with the benefits of multi-view stereo for fast and robust 3D reconstruction with sparse input views.
- Improve the performance of surface rendering by combining it with volume rendering for 3D reconstruction without masks.
- Supervisor: Prof. Dimitris Samaras

Research Assistant

The Chinese University of Hong Kong, Shenzhen, China

Jan. 2019 - Jun. 2020

- Worked on the low-level vision. Our team Won 1st place in Raw to RGB Image Mapping Challenge (ICCV Workshop).
- Supervisor: Prof. Rui Huang

Research Intern

University of Ottawa, Canada

Jun. 2019 - Aug. 2019

- Conducted research on person re-identification. Implemented channel grouping and a multi-branch strategy to improve the performance of person re-identification.
- Supervisor: Prof. Robert Laganière

Publications

Neural Correspondence Fields

Haoyu Wu, Dimitris Samaras

In Submission, 2022

HighEr-Resolution Network for Image Demosaicing and Enhancing

Kangfu Mei, Juncheng Li, Jiajie Zhang, **Haoyu Wu**, Jie Li, Rui Huang

ICCV Workshop, 2019

Teaching

Stony Brook University

CSE 527: Introduction to Computer Vision

Spring 2021 & Fall 2022

IAE 101: Digital Intelligence

Fall 2021

Awards

Dean's List Award, School of Science and Engineering, CUHK(SZ)	2017 - 2020
Master's List, Shaw College, CUHK(SZ)	2018 - 2019