

# Haoyu Wu

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## Education

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### **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

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### **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

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### **S-VolSDF: Sparse Multi-View Stereo Regularization of Neural Implicit Surfaces**

**Haoyu Wu**, Alexandros Graikos, Dimitris Samaras

*ICCV, 2023*

### **HighEr-Resolution Network for Image Demosaicing and Enhancing**

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

*ICCV Workshop, 2019*

## Teaching

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### **Stony Brook University**

CSE 527: Introduction to Computer Vision

Spring 2021 & Fall 2022

IAE 101: Digital Intelligence

Fall 2021

## Awards

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