

TIANCHENG ZHI

EDUCATION

Carnegie Mellon University

Ph.D. in Computer Science

Aug. 2016 - Sep. 2021

Pittsburgh, PA, USA

Peking University

B.S. in Computer Science and Technology

Sep. 2012 - Jul. 2016

Beijing, China

WORK EXPERIENCE

ByteDance

Research Scientist, Computer Vision

Nov. 2021 - Present

Mountain View, CA, USA

PRO Unlimited @ Facebook Onsite

Research Collaborator

Sep. 2019 - Nov. 2019

Pittsburgh, PA, USA

Facebook Reality Labs

Research Intern, Full Body Capture and Reconstruction

May. 2019 - Aug. 2019

Sausalito, CA, USA

UISEE Technology

Algorithm Engineer Intern

Apr. 2016 - Jul. 2016

Beijing, China

Intel China Research Center

Research Intern, Computer Vision

Sep. 2015 - Mar. 2016

Beijing, China

PUBLICATIONS

[1] **AgileAvatar: Stylized 3D Avatar Creation via Cascaded Domain Bridging**

- Shen Sang, **Tiancheng Zhi**, Guoxian Song, Minghao Liu, Chunpong Lai, Jing Liu, Xiang Wen, James Davis, Linjie Luo
- ACM SIGGRAPH Asia Conference (SIGGRAPH Asia), 2022.

[2] **Learning Continuous Implicit Representation for Near-Periodic Patterns**

- Bowei Chen, **Tiancheng Zhi**, Martial Hebert, Srinivasa G. Narasimhan
- European Conference on Computer Vision (ECCV), 2022.

[3] **Semantically Supervised Appearance Decomposition for Virtual Staging from a Single Panorama**

- **Tiancheng Zhi**, Bowei Chen, Ivaylo Boyadzhiev, Sing Bing Kang, Martial Hebert, Srinivasa G. Narasimhan
- ACM Transactions on Graphics (SIGGRAPH), 2022.

[4] **TexMesh: Reconstructing Detailed Human Texture and Geometry from RGB-D Video**

- **Tiancheng Zhi**, Christoph Lassner, Tony Tung, Carsten Stoll, Srinivasa G. Narasimhan, Minh Vo
- European Conference on Computer Vision (ECCV), 2020.

[5] **Multispectral Imaging for Fine-Grained Recognition of Powders on Complex Backgrounds**

- **Tiancheng Zhi**, Bernardo R. Pires, Martial Hebert, Srinivasa G. Narasimhan
- IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2019. (**Oral**)

[6] **Deep Material-aware Cross-spectral Stereo Matching**

- **Tiancheng Zhi**, Bernardo R. Pires, Martial Hebert, Srinivasa G. Narasimhan
- IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2018.

[7] **Real-time, Short-wave, Infrared Hyperspectral Conforming Imaging Sensor for the Detection of Threat Materials**

- Matthew P. Nelson, Shawna K. Tazik, Patrick J. Treado, **Tiancheng Zhi**, Srinivasa Narasimhan, Bernardo Pires, Martial Hebert
- SPIE Commercial + Scientific Sensing and Imaging, Next-Generation Spectroscopic Technologies XI, 2018.

[8] **Two-stage Pooling of Deep Convolutional Features for Image Retrieval**

- **Tiancheng Zhi**, Ling-Yu Duan, Yitong Wang, Tiejun Huang
- IEEE International Conference on Image Processing (ICIP), 2016.