

TIANCHENG ZHI

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EDUCATION

Carnegie Mellon University <i>Ph.D. in Computer Science</i>	Aug. 2016 - Sep. 2021 <i>Pittsburgh, PA, USA</i>
Peking University <i>B.S. in Computer Science and Technology</i>	Sep. 2012 - Jul. 2016 <i>Beijing, China</i>

WORK EXPERIENCE

ByteDance <i>Research Scientist, Computer Vision</i>	Nov. 2021 - Present <i>Mountain View, CA, USA</i>
PRO Unlimited @ Facebook Onsite <i>Research Collaborator</i>	Sep. 2019 - Nov. 2019 <i>Pittsburgh, PA, USA</i>
Facebook Reality Labs <i>Research Intern, Full Body Capture and Reconstruction</i>	May. 2019 - Aug. 2019 <i>Sausalito, CA, USA</i>
UISEE Technology <i>Algorithm Engineer Intern</i>	Apr. 2016 - Jul. 2016 <i>Beijing, China</i>
Intel China Research Center <i>Research Intern, Computer Vision</i>	Sep. 2015 - Mar. 2016 <i>Beijing, China</i>

PUBLICATIONS

- [1] **Learning Continuous Implicit Representation for Near-Periodic Patterns**
 - Bowei Chen, **Tiancheng Zhi**, Martial Hebert, Srinivasa G. Narasimhan
 - European Conference on Computer Vision (ECCV), 2022.
- [2] **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.
- [3] **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.
- [4] **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**)
- [5] **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.
- [6] **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 (DCS), 2018. (**Oral**)
- [7] **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.

REVIEWER

Journal: TIP, TCSVT, TMM, IJCV, SPL

Conference: ECCV'20, ICCV'21, ECCV'22, CVPR'22, AAAI'22, 3DV'22, NIPS'22