

Kaizhang Kang

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Education

Sep. 2014 - June 2018	Zhejiang University B.S. in Computer Science Honors Degree from Chu Kochen Honors College
Sep. 2018 - June 2023 (expected)	Zhejiang University Ph.D. in Computer Science

Research Interests

My research interests include appearance/geometry acquisition & modeling. Based on the proposed differentiable acquisition framework, the published works mainly focus on how to efficiently and accurately digitize real objects.

Publications

- **Neural Reflectance Capture in the View-Illumination Domain**
Kaizhang Kang, Minyi Gu, Cihui Xie, Xuanda Yang, Hongzhi Wu and Kun Zhou
accepted by TVCG
- **Learning Efficient Photometric Feature Transform for Multi-view Stereo**
Kaizhang Kang, Cihui Xie, Ruisheng Zhu, Xiaohe Ma, Ping Tan, Hongzhi Wu and Kun Zhou
Proc. ICCV 2021, pp. 5956-5965
- **Free-form Scanning of Non-planar Appearance with Neural Trace Photography**
Xiaohe Ma, Kaizhang Kang, Ruisheng Zhu, Hongzhi Wu and Kun Zhou
ACM Trans. Graph. (Proc. SIGGRAPH 2021), 40, 4 (Aug. 2021), 124.
- **Learning Efficient Illumination Multiplexing for Joint Capture of Reflectance and Shape**
Kaizhang Kang, Cihui Xie, Chengan He, Mingqi Yi, Minyi Gu, Zimin Chen, Kun Zhou and Hongzhi Wu
ACM Trans. Graph. (Proc. SIGGRAPH Asia 2019), 38, 6 (Nov. 2019), 165.
- **Efficient Reflectance Capture Using an Autoencoder**
Kaizhang Kang, Zimin Chen, Jiaping Wang, Kun Zhou and Hongzhi Wu
ACM Trans. on Graphics (Proc. SIGGRAPH 2018), 37, 4 (Aug. 2018), 127.

Honors & Awards

ACM SIGGRAPH Student Research Competition (2nd Place, Undergraduate Category)	2018
Microsoft Research Asia Fellowship	2021
Lu Zengyong CAD&CG High Technology Award (2nd Place)	2019

Skills

- **Deep learning.** I used deep learning in previous works to solve 3D modeling problems for both geometry and appearance, and the implementations are done with Pytorch and Tensorflow.
- **Computer vision & graphics.** My research in the past 4 years mainly focuses on Computer vision & graphics about how to digitize 3D objects in both high efficiency and high quality manner.
- **Hardware design.** I built hardware prototypes of lightstage and hand-held scanner from scratch, including PCB design, FPGA programming.

Languages

English	Proficient
Mandarin	Native
Japanese	Competent

Referees

Name	Hongzhi Wu
Lab	State Key Lab of CAD&CG, Zhejiang University
Position	Professor
Homepage	http://hongzhiwu.com
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Name	Kun Zhou
Lab	State Key Lab of CAD&CG, Zhejiang University
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