

Kaizhang Kang

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Education

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

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

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| 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

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| English | Proficient |
| Mandarin | Native |
| Japanese | Competent |

Referees

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|-------------|---|
| Name | Hongzhi Wu |
| Affiliation | State Key Lab of CAD&CG, Zhejiang University |
| Position | Professor |
| Homepage | http://hongzhiwu.com |
| Contact | hwu@acm.org |

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| Name | Kun Zhou |
| Affiliation | State Key Lab of CAD&CG, Zhejiang University |
| Position | Cheung Kong Professor, Director of State Key Lab of CAD&CG |
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