XIU LI

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RESEARCH INTEREST

My research interests lie broadly in computer vision,machine learning and computational photography. I'm now particularly focusing on 3D vision including performance capture, neural rendering/view synthetis, SfM and scene representation. I also spare some time on low-level vision including deblur, super-resolution, compressive imaging and various image restoration problems. My research aims at faithfully capturing, manipulating and presenting our real world.

EDUCATION

Tsinghua University *Dec,2021(expected)*
Ph.D.
Department of Automation
Advisor: Qionghai Dai

Tsinghua University *Aug,2011-July,2015*
B.Eng
Department of Automation

EXPERIENCE

Microsoft Research Asia Mar. 2021 - now
Research Intern *Beijing, CN*

· Group: Media Computing

Carnegie Mellon University Sep,2017 - Aug,2019
Visiting Scholar *Pittsburgh PA,USA*

· Mentor: Yaser Sheikh, Hongdong Li
· Working on single view 3D human pose estimation, dense keypoint pose estimation and full body performance capture.

PUBLICATIONS

Refereed

1. **X. Li**, Z. Li, Q. Dai, 'Multi-task single-pixel imaging with an end-to-end flow of joint optimization', Optical Letters(in revision).
2. X. Zhang, L. An, T. Yu, **X. Li**, K. Li, Y. Liu, '4D Association Graph for Realtime Multi-person Motion Capture Using Multiple Video Cameras', CVPR 2020(oral)
3. **X. Li**, H. Li, H. Joo, Y. Liu, Y. Sheikh, 'Structure from Recurrent Motion: From Rigidity to Recurrency', CVPR 2018.

Preprints

1. **X. Li**, J. Suo, W. Zhang, X. Yuan, Q. Dai, 'Universal and Flexible Optical Aberration Correction using Deep-Prior Based Deconvolution'.
2. **X. Li**, Y. Liu, H. Joo, Q. Dai, Y. Sheikh, 'Capture Dense: Full-body Markless Motion Capture with Full-body Parsing', arxiv:1812.01783

SERVICES

- Reviewer for recent CVPR, ICCV, ECCV, AAAI, ACCV, WACV

SKILL

Programming Languages	C/C++,Python,Matlab
Tools	OpenCV,OpenGL,Pytorch

AWARDS AND RECOGNITIONS

- 1st Place and 6th Mission finisher of 2013 International Aerial Robotics Competition