Yajie Zhao

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RESEARCH INTERESTS

My research interests are human face/body reconstruction, tracking, performance capturing and applications in VR/AR . I'm also interested in general problems solving related to computer graphics, computer vision and image processing areas.

EDUCATION

University of Kentucky, Lexington, KY

Ph.D., Computer Science, December 2017

- Thesis Topic: Human Face Modeling and Appearance Synthesis
- Advisors: Ruigang Yang, Ph.D
- GPA 4.0/4.0

Xian Jiaotong University, Xi'an, China

B.S., Computer Science, May 2011

Work Experience

Postdoctoral Researcher

December 2017 to present

University of Southern California, Institute for Creative Technologies

Supervisors: Hao Li

Intern at Google

May 2017 to September 2017

Machine Perception Team, Google, Mountain View

Supervisors: Avneesh Sud and Chris Bregler

Research Assistant

May 2014 to May 2017

Center for Visualization and Virtual Environment,

University of Kentucky Supervisor: Ruigang Yang

Teaching Assistant

Jan 2012 to May 2014

Department of Computer Science,

University of Kentucky

Supervisors: Debby Keen, Ph.D and Yi Pike, Ph.D

Refereed Publications

- Zhao, Yajie, et al. "Identity Preserving Face Completion for Large Ocular Region Occlusion." The British Machine Vision Conference (BMVC), 2018.(To appear)
- 2. Shugo Yamaguchi*, Shunsuke Saito*, Koki Nagano, **Zhao, Yajie**, Weikai Chen, Shigeo Morishima, Hao Li. "High-Fidelity Facial Reflectance and Geometry Inference From an Unconstrained Image." ACM Transactions on Graphics (Proceedings of SIGGRAPH 2018).
- Zeng Huang, Tianye Li, Weikai Chen, Yajie Zhao, Jun Xing, Chloe LeGendre, Linjie Luo, Chongyang Ma, Hao Li. "Deep Volumetric Video From Very Sparse Multi-View Performance Capture." European Conference on Computer Vision (ECCV), 2018.(To appear)
- 4. **Zhao, Yajie**, et al. "A Performance Comparison between Circular and SplineBased Methods for Iris Segmentation." Pattern Recognition (ICPR), 2014 22nd International Conference on. IEEE, 2014.

5. **Yajie Zhao**; Xinyu Huang; Jizhou Gao; Tokuta, A.; Cha Zhang; Ruigang Yang, "Video face beautification," in Multimedia and Expo (ICME), 2014 IEEE International Conference on , vol., no., pp.1-6, 14-18 July 2014.

SUBMITTED PUBLICATIONS

- 1. **Zhao, Yajie**, et al. "Mask-off: Synthesizing Face Images in the Presence of Head-mounted Displays." arXiv preprint arXiv:1610.08481 (2016).
- 2. **Zhao, Yajie**, et al. "Perspective Undistortion of Unconstrained Portrait Photos." Submitted to SIGGRAPH Asia 2018 (To appear).

Programming Languages

• C, C++, Matlab, Python, Lua