Hongrui Cai

Email: hrcai@mail.ustc.edu.cn Phone: (86) 152-0755-5839 GitHub: github.com/RainbowRui

Research interests Computer Vision & Graphics: 3D geometry processing, point cloud processing,

image and video generation.

Education University of Science and Technology of China Hefei, China

M.S. in Data Science Sep. 2019 – Present

Mentors: Prof. Juyong Zhang. GPA: 3.85/4.3

South China University of Technology Guangzhou, China

B.S. in Mathematics and Applied Mathematics Sep. 2015 – Jun. 2019

Ranking: 1/46. GPA: 3.84/4.0

Papers Feng, W., Cai, H., Hou, J., Deng, B., Zhang, J., (2021). Differentiable Deforma-

tion Graph based Neural Non-rigid Registration. (Submitted).

Cai, H., Guo, Y. Peng, Z., Zhang, J., (2021). Landmark Detection and 3D Face Reconstruction for Caricature using a Nonlinear Parametric Model. *Graphical*

Models (GMOD).

Feng, W., Zhang, J., Cai, H., Xu, H., Hou, J., Bao, H., (2021). Recurrent Multiview Alignment Network for Unsupervised Surface Registration. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition* (CVPR).

Guo, Y., Zhang, J., Chen, Y., **Cai, H.**, Huang, Z., Deng, B., (2021). Real-Time Face View Correction for Front-Facing Cameras. *Computational Visual Media* **(CVM)**.

Projects Real-Time Face View Correction for Front-Facing Cameras

Horizontal project Sep. 2019 – Oct. 2020

Propose a fully automatic face view correction system based on a single RGB camera to solve video calling problems such as "upward nose" and "big face"

caused by disparity between camera location and face orientation.

Honors Excellent Graduates of SCUT 2019

Excellent Undergraduate Thesis Award of SCUT 2019

Academic Talks Oral presentation in CVM 2021 Apr. 2021