QUANKAI GAO

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EDUCATION

University of Southern California Sept. 2022-May 2027(expected)
Ph.D. student, Computer Science
Advisor: Prof. Ulrich Neumann

South China University of Technology Sept. 2015-Jun. 2019
Bachelor of Engineering in Automation
GPA: 3.72/4.0

EXPERIENCE

Research Assistant
Robotics Institute, Carnegie Mellon University Aug. 2021-Apr. 2022
-Advisor: Prof. Fernando De La Torre
-3D Face Generation with granular control over expressions, in part with Meta(facebook).

AWARDS & HONORS

Scholarship for Excellent Freshman, Wuhan University	2019
First Prize, The Chinese Mathematics Competitions (CMC), Guangdong.	2018
Finalist Winner, Mathematical Contest in Modeling (MCM/ICM), COMAP.	2018
National Scholarship (Highest scholarship for undergraduate students in China).	2018
Scholarship of South China University of Technology	2017
Scholarship of South China University of Technology	2016

PUBLICATIONS

∗ denotes equal contribution

[1] **Quankai Gao***, Qiangeng Xu, Hao Su, Ulrich Neumann, Zexiang Xu. Strivec: Sparse Tri-Vector Radiance Fields. Proceedings of the IEEE International Conference on Computer Vision (**ICCV**), 2023. [Paper][Project Page]

[2] Fariborz Taherkhan, Aashish Rai*, **Quankai Gao***, Shaunak Srivastava*, Xuanbai Chen, Fernando de la Torre, Steven Song, Aayush Prakash, Daeil Kim. Controllable 3D Generative Adversarial Face Model via Disentangling Shape and Appearance. Winter Conference on Applications of Computer Vision (**WACV**), 2023. [Paper][Project Page]

[3] **Quankai Gao**, Fudong Wang, Nan Xue, Jingang Yu, Guisong Xia. Deep Graph Matching under Quadratic Constraint. In proceedings of IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2021.[Paper][Code]

RESEARCH INTERESTS

- Computer Graphics
- Computer Vision