QUANKAI GAO

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EDUCATION

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

Wuhan University   Sept. 2019-Jun. 2022
Master of Engineering in Electronics

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

EXPERIENCE

Research Assistant, Carnegie Mellon University   Aug. 2021-Apr. 2022
Human Sensing Lab, Robotics Institute.
-Advisor: Prof.Fernando De La Torre Frade
-To generate 3D facial data with higher fidelity and with lower computational consumption, a pre-trained auto-encoder is adopted to reduce the output dimension of 3D shapes in generator, and the correlation between 3D shape and texture is captured in a learning way.

Research Assistant, South China University of Technology   Oct. 2018-Aug. 2019
Advisor:Prof.Jingang Yu
-Reformulated Graph matching as a multivariate function, which explicitly inducing the outliers and the optimization between inliers and outliers is implemented alternatively in a feedback fashion.

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

[1] **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]
[2] Jingang Yu, **Quankai Gao**. Graph Matching with Feedback, under review, 2019.[Paper]

RESEARCH INTERESTS

· 3D computer vision
· Graph matching in computer vision
· Optimization