Qianyi Wu

PERSONAL INFORMATION

Address:	University of Science and Technology of China, Hefei, Anhui, P.R.China
Phone:	+ 86 18756077259
Mail:	wqy9619@mail.ustc.edu.cn
Nationality:	Chinese
Data of Birth	Jan 9th, 1996

EDUCATION

University of Science and Technology of China 2016-2018
Third year Postgraduate in School of Mathematical Science

- Computer Vision
- Computer Graphics

Nanyang Technological University, Singapore 2017-2018
Visiting Research Intern in Multimedia and Interactive Computing Lab
Focus on 3D Cartoon Modeling

University of Science and Technology of China 2012-2016
Bachelor of Science in School of the Gifted Young

RESEARCH INTERESTS

Computer Vision, Computer Graphics, Image Processing, Geometry Processing

RESEARCH EXPERIENCE

Automatic Exposure Correction Algorithm 3.2016-6.2016
Implement some algorithms about correcting exposure in image and make a comparison about different results. This project is part of my bachelor thesis. It uses some classical computational photography methods to adjust image exposure and focuses on some special parts, like human face region.

Style Transfer on Facial Image 8.2016-12.2016
Implement some image style transfer algorithms of traditional image processing methods and deep learning methods. This project tries to solve style transfer problem on face region. By involving face parsing technology, specific style of face components can transfer separately.

Human Detection for Online Course Video Transmission 12.2016-2.2017
Transferring high quality video of online course will leads huge memory cost, but major movements in video resulted from lecturer's walking. Based on this notification, detection for human body will benefits the video transmission. A convolutional neural network was trained for human detection in this project.

3D Caricature Modeling 4.2017-3.2018
Propose a novel algorithm to model 3D caricature face from 2D image. This project adopts a brand new 3D object representation, with sparse 2D landmark constraint, to create a vivid 3D caricature model.

A tie-1 publication was produced in this project and the paper was recommended by MIT Technology Review.

A Disentangled 3D Face Shape Representation 8.2018-12.2018

Develop a new kind of 3D face representation based on spectral graph convolution neural network. This project proposes a framework to tackle attributes decomposition problem defined in 3D mesh and directly applies the framework to 3D face shape for getting a disentangled representation. Paper about this project is under review.

PUBLICATIONS

- **Alive Caricature from 2D to 3D.** Qianyi Wu, Juyong Zhang, Yu-Kun Lai, Jianmin Zheng, Jianfei Cai. IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2018, (spotlight) (acceptance rate: 6.6%)
- **Disentangled Representation Learning for 3D Face Shape.** Zihang Jiang, Qianyi Wu, Keyu Chen, Juyong Zhang. submitted to IEEE Conference on Computer Vision and Pattern Recognition, CVPR 2019

ACADEMIC TALKS

Spotlight presentation in CVPR 2018, Salt Lake City, YouTube Link
Graphics And Mixed Environment Seminar Webinar, GAMES talk

TEACHING EXPERIENCE

Teaching Assistant, Calculus, University of Science and Technology of China 9.2015-1.2016

AWARDS AND HONORS

National Scholarship (awarded to top 1% graduates)	2018
ACM Mutilmedia'18 reviewer	2018
First Class Scholarship	2016-2018
CVPR Student Volunteer and Travel Grant	2018
Outstanding Volunteer of USTC	2014
Special Freshman Scholarship	2012

TECHNICAL SKILLS

- Programming: C/C++, Matlab, Python.
- Language: Chinese (first language), English (IELTS: 6.5 (overall)).