

KEYU CHEN

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EDUCATION

University of Science and Technology of China

Sep. 2018 - June 2021 (expected)

Master in Computational Science and Applied Mathematics
Department of Mathematics
Supervised by Prof. Juyong Zhang

University of Science and Technology of China

Sep. 2014 - June 2018

Bachelor of Computational Science and Applied Mathematics
Department of Mathematics

RESEARCH INTERESTS

Intersection area of Geometry Processing and Machine Learning, Computer Graphics and Computer Vision;

PROJECTS

Facial Expression Transfer with Optimization Method

Oct. 2017 - Jan. 2018

Supported by Huawei Company, Finished at USTC

In the project I implemented an existing facial expression transfer system via numerical optimization method. The optimizing module as well as others like 3D face reconstruction was provided to Huawei company for further potential utilization.

3D Face Shape Reconstruction From Single RGBD Image

Feb. 2018 - May 2018

Finished During Internship at Dilusense Tech.

The project aimed at reconstructing 3D face shapes from RGBD data in an unsupervised way. The basic idea was inspired by bilinear 3D face representations. The final results could enhance many entertainment applications like facial expression transfer.

Extending Generalized Barycentric Coordinates

May 2018 - Aug. 2018

GSoC 2018 Project with CGAL Organization

The project aimed to extend the existed Generalized Barycentric Coordinates package in CGAL with another two powerful coordinates - Harmonic Coordinates and Maximum Entropy Coordinates. This project was mentored by Dr. Dmitry Anisimov and obtained all pass evaluations in GSoC 2018.

Disentangled 3D Face Representation Learning

Sep. 2018 - Nov. 2018

CVPR 2019 Project

The project was motivated by nonlinear encoder-decoder technology in building disentangled 3D face shape attributes domains. Our working result is selected in CVPR 2019 conference. The paper name is *Disentangled Representation Learning for 3D Face Shape*.

PUBLICATION

Disentangled Representation Learning For 3D Face Shape

Zi-Hang Jiang, Qianyi Wu, **Keyu Chen** and Juyong Zhang

IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2019.

SKILLS

Python
C++
Matlab
Generic Programming
Machine Learning

WORK EXPERIENCE

Dilusense Tech., Hefei
Research Intern

Feb 2018 - May 2018

- Research internship in developing 3D face reconstruction model. Learned and implemented an unsupervised training network for 3D face reconstruction.

RELATED COURSES

Computer Graphics (Spring 2017)
Fundamental Algorithms (Spring 2017)
Numerical Theory (Spring 2017)
PDE Numerical Solution (Fall 2017)
Graph Theory (Fall 2018)
Digital Geometry Processing (Spring 2019)

EXTRA-CIRRICULAR

Co-Organized Nirmitee 2017 - a National Symposium of Civil Department of MIT, Pune

Attended a workshop on Autodesk Revit at IIT Bombay in 2014.

Winner of Inter Departmental Football Competition 2015.

Member of the Rotaract Club Of Pune Pride from 2014 to 2017.

Worked for a start-up company Named OUST as a Regional Marketing Manager

PERSONAL TRAITS

Highly motivated and eager to learn new things.

Strong motivational and leadership skills.

Ability to work as an individual as well as in group.