

SHANGZHE DI

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EDUCATION

Beihang University (BUAA)

Sep 2016 - Jun 2020

B.E in Software Engineering

Beijing

- First Prize Scholarship for Academic Performance (Top 8%) Nov 2019
- Special Prize Scholarship for Academic Performance (Top 3%) Nov 2018
- Scholarships for Academic Competitions Nov 2018

Technical University of Munich (TUM)

Apr 2019 - Aug 2019

Exchange program, Informatics Department

Munich

- CSC Exchange Program Scholarship Apr 2019

RESEARCH EXPERIENCE

Flow-based Virtual Try-On System

Oct 2019 - Present

Research Intern, Supervisor: Yilin Guo, Songtao Zhao

Kuaishou Y-Tech Group

- Build a SOTA virtual try-on system that has three modules: a) human parsing estimating, b) cloth warping, and c) image rendering.
- Collect a large try-on dataset with 20,924 pairs of models and clothes, and rich annotations such as fashion landmarks, densepose, and human parsing.

Research on Facial Motion Transfer for Virtual Characters

2019.12 - 2020.05

Bachelor Thesis, Advisor: Prof. Yunxiang Lu

BUAA

- Use facial alignment techniques to calculate the proposed facial motion parameters from selfies.
- Collect an annotated 2D virtual character dataset.
- Change a virtual character's pose and expression by using appearance flow and alpha-blending methods.

Landmark-Free Facial Motion Transfer to VTubers

May 2019 - Jul 2019

Research Assistant

TUM Visual Computing Group

- Design an efficient network to estimate 3DMM pose and expression parameters from RGB video frames, which are then used to control the facial movements of VTubers.
- Enhance accuracy at large angles and computational efficiency towards landmark-based methods.

SKILLS

Languages

Python, C++

Platforms/Frameworks

Numpy, PyTorch, OpenCV

English

TOEFL 107, GRE 325