SHANGZHE DI

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EDUCATION

Beihang University (BUAA)   **Sep 2020 - Present**

M.S in Computer Science   *Beijing*

· First Prize Scholarship for Academic Performance

Beihang University (BUAA)   **Sep 2016 - Jun 2020**

B.E in Software Engineering   *Beijing*

· First Prize Scholarship for Academic Performance (Top 8%)
· Special Prize Scholarship for Academic Performance (Top 3%)

Technical University of Munich (TUM)   **Apr 2019 - Aug 2019**

Exchange program, Informatics   *Munich*

· CSC Scholarship

PUBLICATIONS

[1] Video Background Music Generation with Controllable Music Transformer
Shangzhe Di*, Zeren Jiang*, Si Liu, Zhaokai Wang, Leyan Zhu, Zexin He, Hongming Liu, Shuicheng Yan
ACM MM 2021

RESEARCH EXPERIENCE

Flow-based Virtual Try-On System   **Oct 2019 - Nov 2020**

Research Intern, Supervisor: Yilin Guo, Songtao Zhao   *Kuaishou Y-Tech Group*

· Build a SOTA virtual try-on system with three modules: human parsing, cloth warping, and image rendering.
· Collect a large try-on dataset with 20,924 pairs of models and clothes, and rich annotations.

Research on Facial Motion Transfer for Virtual Characters   **Dec 2019 - May 2020**

Bachelor Thesis, Advisor: Prof. Yunxiang Lu   *BUAA*

· Use facial alignment techniques to calculate the proposed facial motion parameters from selfies.
· 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.

SKILLS

Programming Languages	Python, C++
Platforms/Frameworks	Numpy, PyTorch, OpenCV
English	TOEFL 107, GRE 325