

# SHANGZHE DI

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## EDUCATION

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### Beihang University (BUAA)

Sep 2020 - Jan 2023

*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

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[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 Multimedia*, 2021 (**Best Paper Award**)

## RESEARCH EXPERIENCE

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### Video Background Music Generation

2020.12 - 2021.04

*MM'21 Best Paper*

*CoLab, BUAA*

- Propose the first satisfying method for video background music generation.
- Establish three rhythmic relations between video and background music.
- Design a controllable music generation model.

### Flow-based Virtual Try-On System

Oct 2019 - Nov 2020

*Rejected by CVPR'21*

*Y-Tech, Kuaishou*

- 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*

*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.

## SKILLS

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### Programming Languages

Python, C++

### Platforms/Frameworks

Numpy, PyTorch, OpenCV

### English

TOEFL 107, GRE 325