

## CONTACT

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## SKILLS

C/C++ 6 yrs

Python 5 yrs

Realistic Rendering 2 yrs

Machine Learning 4 yrs

Linux 2 yrs

English IELTS 7.5

Japanese N3

# JIAHUI FAN

Ph.D. Student - Computer Science & Engineering

## EDUCATION

**Ph. D. - Computer Science & Engineering**  
**Nanjing University of Science and Technology,**  
**China**

**2020 - NOW**

Working on Neural-Based Appearance Modeling, and Microfacet Model for Realistic Rendering, advised by Prof. Jian Yang and Prof. Beibei Wang.

**Bachelor - Computer Science & Engineering**  
**Nanjing University of Science and Technology,**  
**China**

**2016 - 2020**

Worked on Depth Completion in Computer Vision, advised by Prof. Jian Yang.

## PUBLICATIONS

**Neural Layered BRDFs**  
**2022**

**SIG 2022**

*Jiahui Fan*, Beibei Wang\*, Miloš Hašan, Jian Yang\* and Ling-Qi Yan

**Position-free Multiple-bounce Computations**  
**for Smith Microfacet BSDFs**  
**2022**

**SIG 2022/TOG**

Beibei Wang, Wenhua Jin, *Jiahui Fan*, Jian Yang, Nicolas Holzschuch and Ling-Qi Yan

**Efficient Specular Glints Rendering with Differentiable Regularization**  
**2022**

**TVCG**

*Jiahui Fan*, Beibei Wang\*, Wenshi Wu, Miloš Hašan, Jian Yang\* and Ling-Qi Yan

## QUALIFICATIONS/ AWARDS

### IELTS

**7.5 out of 9**

Qualified in 2021

A certificate to prove English language proficiency for non-native English language speakers.

### On-campus academic scholarships

**2nd class in 2022**

**1st class in 2021**

By Nanjing University of Science and Technology.

### GPA

**3.55 out of 4.0**

Finished in 2020

An average grade for all my courses during the undergraduate period.

### NJUST Innovation Cup

**1st place award**

2019

A competition in innovating technology products and services. My team won the 1st place by a program named Real-time Musical Accompaniment Software System

## PROJECTS

### Huawei Depth Completion 2020

Python

A computer vision project co-operated with Huawei Technologies Co., Ltd on depth completion in the ToF camera of mobile phones. I contributed in this project by implementing the algorithm, managing the code, and providing the final release version of this project.

### A Real-time Musical Accompaniment Software System 2019

C++

An Innovation Cup entry in NJUST. Scored the 1st place award. I contributed in this project by providing the algorithm outline and taking part in the design and discussion of the final product.

## EXTRACURRICULAR

- **Foreign Languages.** While I've been teaching myself Japanese since my high school, I'm also learning Russian (1 year for now) and French (0.5 years for now) with a lot of interests in their different culture and customs.
- **Drama.** I have learned to play modern drama for 5 years. In 2018 and 2019, I've been the leader of the Drama Troupe in Nanjing University of Science and Technology, a Provincial college student art group, for two years. I have performed in university-wide plays for more than 6 times and been invited to perform at an evening show in the Grand Theatre of China, Shanghai in 2018.