JIAHUI FAN

Ph.D. Student - Neural Rendering / Physically-Based Rendering / Inverse Rendering

CONTACT

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EDUCATION

MSc. & PhD. - Computer Science & Engineering
Nanjing University of Science and Technology, China   **2020 - NOW**

Working on Neural-Based Appearance Modeling for Realistic Rendering, including neural rendering, physically-based rendering and inverse 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 computer vision, specifically depth estimation and completion, advised by Prof. Jian Yang.

WORK EXPERIENCE

Internship in rendering group
Disney Research | Studio, Zurich   **2023 Summer**

Worked on a researching project for rendering complex materials.

PROFESSIONAL SKILLS

C/C++	since 2016
Python	since 2017
Linux	since 2017
Deep Learning	since 2017
Rendering	since 2020

PUBLICATIONS

Free Your Hands: Lightweight Turntable-Based Object Capture Pipeline   **ARXIV '25**

Jiahui Fan, Fujun Luan, Jian Yang, Miloš Hašan, Beibei Wang

RNG: Relightable Neural Gaussians   **CVPR '25**

Jiahui Fan, Fujun Luan, Jian Yang, Miloš Hašan, Beibei Wang

Neural Biplane Representation for BTF Rendering and Acquisition `SIGGRAPH '23`

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

Neural Layered BRDFs `SIGGRAPH '22`

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

Position-free Multiple-bounce Computations for Smith Microfacet BSDFs `ACM TOG '22`

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

Efficient Specular Glints Rendering with Differentiable Regularization `IEEE TVCG '21`

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

HONORS AND AWARDS

- **2022 Style3D Graphics Scholarship.**
- **2022 GAMES Best Poster Award.**
- **National Scholarship 2022.**

EXTRACURRICULAR

- **Foreign Languages.** Based on my deep interests in different cultures from different countries around the world, I've been learning multiple languages, including Japanese, Russian, Italian, German and French, and hopefully will be more in the future.

- **Modern Drama.** I have been learning and practicing for performing drama since 2016, and have been the leader of a Provincial College Student Drama Troupe for two years.