

# Duan Gao (高端)

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Tsinghua University  
Department of Computer Science and Technology  
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Born: 06/03/1995  
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**Education**      **Tsinghua University**  
Ph.D. Student, Computer Science, 2017.9 - now  
Fields: Computer Graphics  
Research interests: Appearance modeling, physically-based rendering and neural rendering.

**Nanjing University**  
B.A., Computer Science, 2012.9 - 2017.7.

**Publications**    **Deferred Neural Lighting: Free-viewpoint Relighting from Unstructured Photographs**  
**SIGGRAPH Asia 2020**  
Duan Gao, Guojun Chen, Yue Dong, Pieter Peers, Kun Xu, Xin Tong

**Deep Inverse Rendering for High-resolution SVBRDF Estimation from an Arbitrary Number of Images**  
**SIGGRAPH 2019**  
Duan Gao, Xiao Li, Yue Dong, Pieter Peers, Kun Xu, Xin Tong

**Experience**      **Research intern@Microsoft Research Asia, Internet Graphics Group**  
2019.10 - 2020.5, Neural relighting research with Dr. Guojun Chen, Dr. Yue Dong and Dr. Xin Tong.

**Research intern@Tencent AI Lab**  
2019.7 - 2019.8, 3D face reconstruction research with Dr. Haozhi Huang.

**Research intern@Microsoft Research Asia, Internet Graphics Group**  
2018.8 - 2019.5, Appearance modeling research with Dr. Yue Dong and Dr. Xin Tong.

**Research intern@Megvii(Face++)**  
2017.7 - 2017.9, Facial recovery and rendering research with Dr. Liqian Ma.

Technical skills **Main skills** : Computer graphics  
**Languages** : C/C++, Python, Java, OpenGL  
**Software** : Git, LaTeX, TensorFlow

Languages **Chinese** (native), **English** (Working knowledges.)

Projects **Elegans Renderer**  
Physically based renderer. [Link](#)

**Smoke Simulation**  
Smoke simulation based on the paper “Visual Simulation of Smoke“ [Link](#)

**Face Relighting**  
3D face reconstruction from a single image and face relighting [Link](#)

**BlueNoise Generator**  
Generate blue noise images. [Link](#)