

# Xianyao Zhang

Joint doctoral student  
Computer Graphics Lab, D-INFK, ETH Zürich  
DisneyResearch | Studios

Email: [xyzhang.qd@gmail.com](mailto:xyzhang.qd@gmail.com)  
Homepage: <https://mkimish.github.io>

## Education

- Ph. D.** in *Computer Science*, ETH Zürich. 2019.8-present
- M. Sc.** in *Computer Science*, ETH Zürich (with distinction). 2017.9-2019.7  
GPA: 5.96/6.0.
- B. Sc.** in *Intelligence Science and Technology*, Peking University (with distinction). 2013.9-2017.7  
GPA: 3.76/4.0.

## Professional Experience

- Intern**, Rendering Group, Disney Research Zürich 2018.4-2018.9  
Mentor: *Dr. Jan Novak*  
Project: **Denosing Monte-Carlo renderings with low sample counts**

## Academic Experience

- Research Assistant**, Computer Graphics Lab, ETH Zürich 2018.11-2019.5  
Advisor: *Dr. Marios Papas, Thijs Vogels and Thomas Müller*  
Project: **Denosing Radiance Samples in Scene Space with Order-Independent Neural Networks** (Master Thesis)
- Research Assistant**, Key Laboratory of Machine Perception (MoE), Peking University 2016.11-2017.6  
Advisor: *Prof. Zhouchen Lin*  
Project: **Fast Multiple Affine Template Matching** (Bachelor Thesis)
- Research Assistant**, NELVT, Peking University 2015.12-2016.11  
Advisor: *Prof. Yizhou Wang*  
Project: **Video Inpainting with GAN**
- Teaching Assistant**, Department of Computer Science, ETH Zürich Fall 2018, Fall 2019, Fall 2020  
Course: **Computer Graphics**
- Teaching Assistant**, School of EECS, Peking University Fall 2016  
Course: **Introduction to Computation (B)**

## Publications

- Xianyao Zhang**, Marco Manzi, Thijs Vogels, Henrik Dahlberg, Markus Gross, Marios Papas.  
*Deep Compositional Denoising for High-quality Monte Carlo Rendering*  
Eurographics Symposium on Rendering 2021 (**EGSR 2021**).

## Projects

**Game Recognition of Go** (C++ with OpenCV) 2017.2-2017.6

Description: Using image processing algorithms for image recognition of Go games.

**High-Quality Real-Time Video Inpainting with PixMix** (MATLAB and C++, team leader) 2016.10-2017.1

Description: Reimplementation of TVCG'14 paper as a project for *Image Processing* course.

## Skills

### Programming

Languages: Proficient in python, MATLAB, C/C++; familiar with C#, HTML, JavaScript,  $\LaTeX$ , CUDA C/C++

Toolboxes: TensorFlow, OpenCV, Torch7, CGAL, Boost Graph Library.

### Languages

Chinese: native

English: fluent

German and French: beginner

## Awards and Honors

**Willi-Studer Prize**, ETH Zürich, 2020.

**Excellent Undergraduate of Beijing**, Peking University, 2017.

**Excellent Undergraduate Thesis**, Peking University, 2017.

**Founder Scholarship** (top 5%), Peking University, 2014 and 2016.

**Merit Student** (top 5%), Peking University, 2015 and 2016.

**Tung OOCL Scholarship** (top 5%), Peking University, 2015.