Xianyao Zhang

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

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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: **Denoising 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: **Denoising 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 2018/19/20/22
Course: **Computer Graphics**

Teaching Assistant, Department of Computer Science, ETH Zürich   Spring 2020/21/22
Course: **Scientific Visualization**

Publications

Xianyao Zhang, Melvin Ott, Marco Manzi, Markus Gross, Marios Papas.
Automatic Feature Selection for Denoising Volumetric Renderings
Computer Graphics Forum 41(4), Proceedings of Eurographics Symposium on Rendering 2022 (**EGSR2022**).

Xianyao Zhang, Marco Manzi, Thijs Vogels, Henrik Dahlberg, Markus Gross, Marios Papas.
Deep Compositional Denoising for High-quality Monte Carlo Rendering
Computer Graphics Forum 40(4), Proceedings of Eurographics Symposium on Rendering 2021 (**EGSR2021**).

Skills

Programming

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

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

Languages

Chinese: native

English: fluent

German and French: beginner

Miscellaneous: Top 5 Minesweeper player worldwide (personal best for expert mode: $32.62s$)

Awards and Honors

Willi-Studer Prize (1/150), 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.

Last updated: September 4, 2022