Yifan Wang

ETH Zurich
Interactive Geometry Lab
yifan.wang@inf.ethz.ch
https://yifita.github.io

Research Interests Learning-based image and video processing, video understanding, geometry processing.

Education

ETH Zürich, Fall 2017 - Now
PhD Candidate in Computer Science
Research Topic: Data-driven content completion from raw inputs. Supervised by Prof. Olga Sorkine-Hornung.

ETH Zürich, Fall 2014 - Fall 2016
Master of Science in Robotics, System and Control Graduated with distinction. Master Thesis: Semantic-Reginal CNNs for Action Recognition, supervised by Prof. Otmar Hilliges.

ETH Zürich, Fall 2013 - Spring 2014
ERASMUS program in Electrical Engineering

TU Münich, Fall 2010 - Spring 2013
Bachelor of Science in Electrical Engineering and Information Technology Graduated with distinction. Bachelor Thesis: High Data Rate MIMO Configuration for LEO Satellite Communications.

Publications

Differentiable Surface Splatting for Point-based Geometry Processing - **Wang Yifan**, Felice Serena, Shihao Wu, Cengiz Öztireli, Olga Sorkine-Hornung. SIGGRAPH Asia 2019.

Blind image super resolution with spatially variant degradations - Victor Cornillère, Abdelaziz Djelouah, **Wang Yifan**, Olga Sorkine-Hornung, Christopher Schroers. SIGGRAPH Asia 2019.

Patch-based Progressive 3D Point Set Upsampling - **Wang Yifan**, Shihao Wu, Hui Huang, Daniel Cohen-Or and Olga Sorkine-Hornung. 2019 The IEEE Conference on Computer Vision and Pattern Recognition (CVPR).

A Fully Progressive Approach to Single-Image Super-Resolution - **Yifan Wang**, F. Perazzi, B. McWilliams, A. Sorkine-Hornung, O. Sorkine-Hornung, C. Schroers. 2018 IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops (CVPRW), pages 977 - 97709.

Two-Stream SR-CNNs for Action Recognition in Videos - **Yifan Wang**, Jie Song, Limin Wang, Luc Van Gool and Otmar Hilliges. In Richard C. Wilson, Edwin R. Hancock and William A. P. Smith, editors, Proceedings of the British Machine Vision Conference (BMVC), pages 108.1-108.12. BMVA Press, September 2016.

Patents

Video Super-Resolution Using An Artificial Neural Network
US Patent App. 15/886,625

Research Positions

Internship *Summer 2019*
Adobe Research, Seattle, USA
Topic: Shape generation

Internship *Fall 2016*
Disney Research, Zurich, Switzerland
Topic: Image super-resolution

Research Assistant *Summer 2016*
Advanced Interactive Technology Group, ETH Zurich, Switzerland
Topic: Action Recognition from Videos

Internship *Summer 2014*
BMW Research and Technology, Münich, Germany
Topic: Hardward for argmented reality, ConnectedDrive Project

Awards

New Trends in Image Restoration and Enhancement Challenge 2018 2018
Winner Award in Track 1 and **Honorable Mention** in Tracks 2-4.

HackZurich 2016
Finalist in Europe's largest Hackathon.

Heinrich und Lotte Mühlfenzl-Stiftung 2013
Selected recipient for Mühlfenzl-Stiftung, a foundation supporting students conducting studies overseas.

Teaching

I'm teaching assistant for "Linear Algebra for Computer Science" and "C++ for Mechanical Engineers".