

ETH Zurich  
Department of Computer Science  
CAB G 82.2  
Universitätsstrasse 6  
8092 Zurich, Switzerland

+41 44 632 74 69  
[yifan.wang@inf.ethz.ch](mailto:yifan.wang@inf.ethz.ch)  
<https://yifita.github.io>

## Research Interests

Learning-based image and video processing, geometry processing.

## Education

*ETH Zurich,* Fall 2017 - Now  
**PhD Candidate in Computer Science**  
Research Topic: Detail-driven raw data restoration and enhancement, supervised by Prof. Olga Sorkine-Hornung.

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

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

*TU Munich,* 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

## Positions

*Research Intern*  
Seattle, USA  
Topic: Shape generation

*Adobe Research*  
Jun 2019 - Sep 2019

*Research Intern*  
Zurich, Switzerland  
Topic: Image super-resolution

*Disney Research*  
Fall 2016 - Feb 2017

*Research Assistant*  
Zurich, Switzerland  
Topic: Action Recognition from Videos

*ETH Zurich*  
May 2016 - Jul 2016

*Internship*  
Munich, Germany  
Topic: Hardware for augmented reality, ConnectedDrive Project

*BMW Research and Technology*  
May 2014

## 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 Münlfenzl-Stiftung* 2013  
Selected recipient

## Selected Courses

Geometry Processing and Shape Modelling, Image Analysis and Computer Vision, 3D photography, Machine Learning, Probabilistic Artificial Intelligence, Probabilistic Graphical Models for Image Analysis

## Teaching

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