

Yifan Wang

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Interactive Geometry Lab
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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 München, 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 - CoRR abs/1906.04173, May 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 - **Wang Yifan**, 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 - **Wang Yifan**, 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.

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 Mhnlfenzl-Stiftung 2013
Selected recipient for Mhnlfenzl-Stiftung, a foundation supporting students conducting studies overseas.

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

Research Poisions *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

Research Assistant *Summer 2014*
BMW Research and Technology, Mönich, Germany
Topic: Hardware for argmented reality, ConnectedDrive Project