



Yiming Zhao

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EDUCATION

ETH Zürich

Master's degree, Electrical Engineering and Information Technology

Zurich, Switzerland

Oct. 2019 – August. 2024

- GPA: 5.55/6.0

Technical University of Munich

Bachelor's degree, Electrical Engineering and Information Technology

Munich, Germany

Oct. 2016 – Sept. 2019

- GPA: 1.9/1.0

PROFESSIONAL EXPERIENCE

Research Collaborator

ETH Zurich

Sept. 2024 – Feb. 2025

Zurich, Switzerland

- Preparing for the submission of *EgoPressure* to CVPR 2025, manuscript preparation, and revisions
- Developed *PressureFormer*, a novel baseline model for contact pressure estimation

Master Thesis

ETH Zürich | CVG Group & SIPLAB | Grade: 6.0/6.0

Advisor: Prof. Marc Pollefeys & Prof. Christian Holz

Sept. 2023 – June. 2024

Zurich, Switzerland

- Build an egocentric motion capture system with precise synchronization between multiple sensors and accurate pose tracking
- Design a marker-less hand pose annotation pipeline for multiple views using differentiable render
- Collection of hand surface interaction dataset for AR/VR applications with groundtruth pressure and egocentric view results in 21 participants of 5 hours with 4.3 million images
- Proposed baseline modes that integrates hand pose to predict hand contact and pressure on surfaces from RGB images
- Accepted to CVPR 2025 as *EgoPressure*

Software Engineer

TALPA Inspection | Durability of Engineering Materials Lab | Spin-off of ETH Zurich

Oct. 2022 – Sept. 2024

Zurich, Switzerland

- Automate the measurement pipeline for electrochemical detection of corrosion of reinforcement bars in concrete
- Development of a new measurement software with the user-friendly graphical user interface (GUI)
- Development of a communication system for multiple devices
- Embedded system programming on microcontrollers (Arduino and Raspberry Pi)

Semester Project

ETH Zürich | CVG Group | Advisor: Prof. Marc Pollefeys | Grade: 6.0/6.0

June 2022 – April. 2023

Zurich, Switzerland

- Design an optimization-based pipeline to extract human body pose from blurry images.
- Accepted to ICCV 2023 as *Human from Blur*

Industrial Internship

Carl Zeiss, Corporate Research and Technology

Sept. 2021 – May 2022

Oberkochen, Baden-Württemberg, Germany

- Develop multi-cameras synchronization system in optical object tracking pipeline for vehicle assembly line

- Deployment of the RBOT-based method across multiple OS platforms

Bachelor Thesis

March 2019 – Sept. 2019

TU Munich | Advisor: Prof. Alois Knoll | Grade: 1.3/1.0

Munich, Germany

- Topic: Event-based 3D Reconstruction on Snake Robot
- Obtain sparse point cloud from event-based camera
- Optimal control of snake robot 's locomotion for different scene

Undergraduate Research Assistant

May 2018 – Sept. 2018

TU Munich | Environmental Sensing and Modeling Lab | Advisor: Prof. Chen Jia

Munich, Germany

- Design and modelling of container for atmosphere monitoring device with 3D printing
- Simulation of mechanical operations for deployment at various latitudinal locations

PUBLICATIONS

EgoPressure: A Dataset for Hand Pressure and Pose Estimation in Egocentric Vision June. 2025

- Yiming Zhao*, Taein Kwon*, Paul Strel*, Marc Pollefeys, Christian Holz
- **CVPR 2025 (Highlight) Conference** [\[Paper\]](#) [\[Project Page\]](#)

Human from Blur: Human Pose Tracking from Blurry Images Oct. 2023

- Yiming Zhao, Denys Rozumnyi, Jie Song, Otmar Hilliges, Marc Pollefeys, Martin R. Oswald
- **ICCV 2023 Conference** [\[Paper\]](#)

SemSpray: Virtual Reality As-Is Semantic Information Labeling Tool for 3D Spatial Data June 2022

- Yiming Zhao*, Cyprien Fol*, Yuchang Jiang, Tianyu Wu, Iro Armeni
- **EC3 2022 Conference** [\[Paper\]](#)

PERSONAL

- **Languages:** Mandarin (Native), German (proficiency), English (proficiency)
- **Technical Skills:** Python, Pytorch, C/C++, C#, MATLAB, SolidWorks, Blender, Unity3D, ROS, Embedded system
- **Others:** Driver's License (Category B, Switzerland)