

# Rui Wang

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🌐 <https://pdz.ethz.ch/the-group/people/rui-wang.html>

## Education

- 09/2023 – present  **ETH Zurich, Zurich, Switzerland**  
Ph.D candidate in pd|z, D-MAVT;
- 09/2020 – 05/2023  **ETH Zurich, Zurich, Switzerland** GPA: 5.64/6.0  
M.Sc. D-ITET in Machine learning and signal processing
- 09/2016 – 05/2020  **Wuhan University, Wuhan, China** Core GPA 3.91/4.0  
Bachelor's degree. in the Electronic Information School

## Selected Publications

- **Rui Wang**, Quentin Lohmeyer, Siyu Tang, Mirko Meboldt; Multi4D: High-Fidelity Dynamic Gaussian Splatting via Multi-Level Competitive Allocation; European Conference on Computer Vision (ECCV), 2026
- **Rui Wang**, Quentin Lohmeyer, Mirko Meboldt, Siyu Tang; DeGauss: Dynamic-Static Decomposition with Gaussian Splatting for Distractor-free 3D Reconstruction; Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV), 2025
- Robin Brutschi\*, **Rui Wang\***, Michaela Kolbe, Kerrin Weiss, Quentin Lohmeyer and Mirko Meboldt; Speech recognition technology for assessing team debriefing communication and interaction patterns: An algorithmic toolkit for healthcare simulation educators; Advances in Simulation, vol. 9: no. 1, pp. 42, BioMed Central, 2024.(\* equal contribution)
- **Rui Wang\***, Sophokles Ktistakis\*, Siwei Zhang, Mirko Meboldt, Quentin Lohmeyer; POV-Surgery: A Dataset for Egocentric Hand and Tool Pose Estimation During Surgical Activities; MICCAI 2023 (\* denotes co-first authors) ([Oral Presentation](#))

## Research experience

- 09/2023 – present  **PDZ, ETH Zurich** Prof. Mirko Meboldt, Co-supervisor: Prof. Siyu Tang  
Doctoral student in Egocentric human-behavior understanding
- 05/2022 – 08/2022  **VLG, ETH Zurich** Research assistant Prof. Siyu Tang  
(Egobody, Zhang et al. ECCV2022) dataset collection and processing
- 07/2021 – 11/2021  **SIUS, Switzerland** Machine Learning Developer
- 09/2019 – 1/2020  **National University of Singapore, Singapore** Prof. Andrew Lim  
Student Researcher for 3d reconstruction from drone-captured images

## Research Interests and Skills

- Research Interests  Egocentric human-behavior understanding, optimization-based & feed-forward 4D dynamic scene reconstruction, human-object interaction
- Skills  Python, C++, PyTorch, dynamic scene representation and Gaussian Splatting, neural rendering, dynamic human modeling, multi-view geometry, large-scale training on GPU clusters