





# Marko Mihajlovic

PhD Student in Computer Vision

 markomih.github.io  github.com/markomih  scholar  Zurich, Switzerland

## Education

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### PhD Computer Science (expected in Sept. 2024)

ETH Zurich, Switzerland 2020-2024

Photo-realistic digitization of dynamic environments and avatars.

Supervisors Prof. Dr. Siyu Tang and Prof. Dr. Marc Pollefeys.

### MSs Computer Science

ETH Zurich, Switzerland 2018-2020

Specialization in Visual Computing. Supervisor: Prof. Dr. Marc Pollefeys.

### BSc Computer Science

Faculty of Electronic Engineering, Serbia 2013-2017

Valedictorian (1/420 students), GPA 10.0/10.0.

## Experience

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### Research Intern *Meta Reality Labs Research*

Zurich, Switzerland 08/2023 - 02/2024

- I worked on static and dynamic 3D reconstruction with Gaussian Splatting. (*under submission*)

- Managers: Edmond Boyer and Tony Tung

### Research Intern *Meta Reality Labs Research*

Pittsburgh, Pennsylvania 09/2021 - 04/2022

- I worked on neural rendering and reconstruction from sparse views.

- Manager: Michael Zollhoefer

### Research Assistant *ETH Zurich*

Zurich, Switzerland 12/2019 - 03/2020

- I worked on a robust and privacy-preserving Federated Learning framework.

### Software Engineer *Stem Inc. (stem.com)*

San Francisco, Remote 07/2018 - 09/2018

- I developed and deployed a microservice pipeline that processes online data streams and supplies machine learning algorithms.

### Software Engineer *ABB Switzerland Ltd. (abb.com)*

Switzerland, Remote 03/2018 - 06/2018

- I worked on an ETL system that prepares data for machine learning algorithms.

## Selected Publications (Full List at Google Scholar)

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1. **Marko Mihajlovic**, Sergey Prokudin, Marc Pollefeys, and Siyu Tang, "ResFields: Residual neural fields for spatiotemporal signals," In **ICLR (spotlight)**, 2024
2. Xiyi Chen, **Marko Mihajlovic**, Shaofei Wang, Sergey Prokudin, and Siyu Tang, "Morphable Diffusion: 3d-consistent diffusion for single-image avatar creation," In **CVPR**, 2024
3. Zhiyin Qian, Shaofei Wang, **Marko Mihajlovic**, Andreas Geiger, and Siyu Tang, "3DGS-Avatar: Animatable avatars via deformable 3d gaussian splatting," In **CVPR**, 2024
4. Yan Zhang, Sergey Prokudin, **Marko Mihajlovic**, Qianli Ma, and Siyu Tang, "Degree-of-freedom matters: Inferring dynamics from point trajectories," In **CVPR**, 2024
5. **Marko Mihajlovic**, Aayush Bansal, Michael Zollhoefer, Siyu Tang, and Shunsuke Saito, "KeypointNeRF: Generalizing image-based volumetric avatars using relative spatial encoding of keypoints," In **ECCV**, 2022
6. **Marko Mihajlovic**, Shunsuke Saito, Aayush Bansal, Michael Zollhoefer, and Siyu Tang, "COAP: Compositional articulated occupancy of people," In **CVPR**, 2022
7. Shaofei Wang, **Marko Mihajlovic**, Qianli Ma, Andreas Geiger, and Siyu Tang, "MetaAvatar: Learning animatable clothed human models from few depth images," In **NeurIPS**, 2021
8. **Marko Mihajlovic**, Yan Zhang, Michael J. Black, and Siyu Tang, "LEAP: Learning articulated occupancy of people," In **CVPR**, 2021
9. **Marko Mihajlovic**, Silvan Weder, Marc Pollefeys, and Martin R. Oswald, "DeepSurfels: Learning online appearance fusion," In **CVPR**, 2021