





Marko Mihajlovic

 markomih.github.io  github.com/markomih  scholar  Zurich, Switzerland (EU)

Education

PhD in Computer Science and AI

ETH Zurich (CH) 2020–2025

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

MSc Computer Science

ETH Zurich (CH) 2018–2020

Focus on Machine Learning. Supervisor: Prof. Dr. Marc Pollefeys.

BSc Computer Science

University of Niš (RS) 2013–2017

Valedictorian, Faculty of Electronic Engineering (1/420 students), GPA 10.0/10.0.

Experience

Researcher *Apple*

2025 – Present

- Research in photorealism and visual intelligence on a team led by Vladlen Koltun.

Research Intern *Meta*

2023 – 2024

- SplatFields: Neural Gaussian Splats for Sparse 3D and 4D Reconstruction. Accepted to ECCV 2024.
- Team: Federica Bogo, Robert Maier, Tony Tung, Edmond Boyer

Research Intern *Meta*

2021 – 2022

- KeypointNeRF: Generalizing Image-based Volumetric Avatars. Accepted to ECCV 2022.
- Team: Shunsuke Saito, Aayush Bansal, Michael Zollhoefer

Selected Publications (Full List at Google Scholar)

1. **Marko Mihajlovic**, Siwei Zhang, Gen Li, Lea Müller, and Siyu Tang, “VolumetricSMPL: A neural volumetric body model for efficient interactions, contacts, and collisions,” In **ICCV (highlight)**, 2025
2. Frano Rajič, Haofei Xu, **Marko Mihajlovic**, Siyuan Li, Irem Demir, Emircan Gündoğdu, Lei Ke, Sergey Prokudin, Marc Pollefeys, and Siyu Tang, “Multi-view 3d point tracking,” In **ICCV (oral)**, 2025
3. Mingyang Song, Yang Zhang, **Marko Mihajlovic**, Siyu Tang, Markus Gross, and Tunc Ozan Aydin, “Spline Deformation Field,” In **SIGGRAPH**, 2025
4. Yutong Chen, **Marko Mihajlovic**, Xiyi Chen, Yiming Wang, Sergey Prokudin, and Siyu Tang, “SplatFormer: Point transformer for robust 3d gaussian splatting,” In **ICLR (spotlight)**, 2025
5. Adam Kania, **Marko Mihajlovic**, Sergey Prokudin, Jacek Tabor, and Przemysław Spurek, “FreSh: Frequency shifting for accelerated neural representation learning,” In **ICLR**, 2025
6. **Marko Mihajlovic**, Sergey Prokudin, Siyu Tang, Robert Maier, Federica Bogo, Tony Tung, and Edmond Boyer, “SplatFields: Neural gaussian splats for sparse 3d and 4d reconstruction,” In **ECCV**, 2024
7. Deheng Zhang, Jingyu Wang, Shaofei Wang, **Marko Mihajlovic**, Sergey Prokudin, Hendrik Lensch, and Siyu Tang, “RISE-SDF: A relightable information-shared signed distance field for glossy object inverse rendering,” In **3DV**, 2025
8. **Marko Mihajlovic**, Sergey Prokudin, Marc Pollefeys, and Siyu Tang, “ResFields: Residual neural fields for spatiotemporal signals,” In **ICLR (spotlight)**, 2024
9. Xiyi Chen, **Marko Mihajlovic**, Shaofei Wang, Sergey Prokudin, and Siyu Tang, “Morphable Diffusion: 3d-consistent diffusion for single-image avatar creation,” In **CVPR**, 2024
10. Zhiyin Qian, Shaofei Wang, **Marko Mihajlovic**, Andreas Geiger, and Siyu Tang, “3DGS-Avatar: Animatable avatars via deformable 3d gaussian splatting,” In **CVPR**, 2024
11. Yan Zhang, Sergey Prokudin, **Marko Mihajlovic**, Qianli Ma, and Siyu Tang, “Degree-of-freedom matters: Inferring dynamics from point trajectories,” In **CVPR**, 2024
12. **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

13. **Marko Mihajlovic**, Shunsuke Saito, Aayush Bansal, Michael Zollhoefer, and Siyu Tang, "COAP: Compositional articulated occupancy of people," In **CVPR**, 2022
14. Shaofei Wang, **Marko Mihajlovic**, Qianli Ma, Andreas Geiger, and Siyu Tang, "MetaAvatar: Learning animatable clothed human models from few depth images," In **NeurIPS**, 2021
15. **Marko Mihajlovic**, Yan Zhang, Michael J. Black, and Siyu Tang, "LEAP: Learning articulated occupancy of people," In **CVPR**, 2021
16. **Marko Mihajlovic**, Silvan Weder, Marc Pollefeys, and Martin R. Oswald, "DeepSurfels: Learning online appearance fusion," In **CVPR**, 2021

Academic Services

Conference Reviewer: CVPR, ICCV, ECCV, SIGGRAPH.

Teaching at ETH Zurich:

○ [263-3710-00L] Machine Perception	Spring, 2021
○ [401-0131-00U] Linear Algebra	Fall, 2022
○ [252-0002-00L] Data Structures and Algorithms	Spring, 2023
○ [263-5806-00L] Digital Humans	Spring, 2024
○ [252-0836-00S] Computer Science	Fall, 2024
○ [263-5806-00L] Digital Humans	Spring, 2025

Student supervision:

○ [Master thesis] Xiyi Chen (Next: PhD Student at the University of Maryland, College Park)	2024
○ [Master thesis] Deheng Zhang (Next: PhD Student at the University of Tübingen)	2024
○ [Master thesis] Jingyu Wang (Next Research Assistant at ETH Zurich)	2024
○ [Master thesis] Zhiyin Qian (Next: PhD Student at ETH Zurich)	2023
○ [Master thesis] Dusan Svilarkovic (Next: PhD Student at NTU Singapore)	2023
○ [Semester project] Changlin Qian (Next: Research Assistant at ETH)	2022

Fellowships/Scholarships

○ Hasler Stiftung Small Project Grant ($\approx 50k$ CHF)	2025
○ Scholarship for master studies at ETH via Direct Doctorate program ($\approx 48k$ CHF)	2018-2020
○ Scholarship of Excellence for Young Talents Serbia ($\approx 30k$ EUR)	2017-2023