Thomas Wimmer

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Doctoral researcher in 3D computer vision and visual semantics at the Max Planck Institute for Informatics and ETH Zurich.

EDUCATION

Max-Planck-Institute for Informatics & ETH Zurich — **Saarbrücken, Germany & Zurich, Switzerland**
Joint Doctorate on 3D Computer Vision; (Dynamic) Scene Reconstruction, Analysis and Generation — *11/2024 – 11/2027*

- Joint supervision by Jan Eric Lenssen, Bernt Schiele, Christian Theobalt (MPI-INF), and Siyu Tang (ETHZ).
- Fellow of the Max Planck ETH Center for Learning Systems (CLS) [one of 8 successful applicants from >1000 applications], and the European Laboratory for Learning and Intelligent Systems (ELLIS) [3% acceptance rate].

Technical University of Munich — **Munich, Germany**
Master of Science in Informatics — *10/2021 – 07/2024*

- **Cumulative Grade:** 1.06 / 1 [A]; Passed with high distinction
- **Thesis:** Text-Driven Animation of 3D Gaussian Splatting Scenes (in collaboration with Google) – Supervisors: Federico Tombari and Andreas Geiger.

Institut Polytechnique de Paris (incl. École Polytechnique, TELECOM Paris) — **Palaiseau, France**
Master of Science in Computer Science, Specialization: Data & Artificial Intelligence — *09/2022 – 09/2023*

- **Cumulative Grade:** 18.43 / 20 [A+, Ranked **first in class**]; Graduation with highest honors.
- **Thesis:** Back to 2D: Shape Analysis through the lens of large pre-trained 2D Models – Supervisor: Maks Ovsjanikov

Technical University of Munich — **Munich, Germany**
Bachelor of Science in Informatics, Minor in Physics — *10/2018 – 11/2021*

- **Cumulative Grade:** 1.50 / 1 [A]; Passed with distinction
- **Thesis:** Scale-Equivariant Deep Learning for 3D Data – Supervisor: Daniel Cremers

University of Copenhagen — **Copenhagen, Denmark**
Visiting Student (Semester abroad) in M.Sc. Computer Science — *09/2020 – 01/2021*

Kempten University of Applied Sciences — **Kempten, Germany**
Early Studies Program, Informatics — *10/2015 – 03/2016*

WORK EXPERIENCE

Google, Technical University of Munich — **Munich, Germany / Zurich (remote)**
Master Thesis Student — *12/2023 – 06/2024*

- Co-supervision by Federico Tombari and Andreas Geiger, in collaboration with Michael Niemeyer and Michael Oechsle.
- Work on using video diffusion models to animate given 3D scenes. Published at 3DV '25.

École Polytechnique, INRIA — **Palaiseau, France**
Research Intern, 3D Shape Analysis — *04/2023 – 09/2023*

- Research internship in the GeomeriX group under the supervision of Maks Ovsjanikov.
- Work on knowledge transfer from large pre-trained (multi-modal) 2D models for 3D shape analysis. Published at CVPR '24.

Technical University of Munich — **Munich, Germany**
Teaching Assistant, Functional Programming and Verification — *10/2020 – 03/2021*

VOLUNTARY WORK

European Union Strategy for the Alpine Region (EUSALP)
Founding Member and German Delegate, EUSALP Youth Council — *2021 – 2023*

Alpine Convention
German Delegate, Youth Parliament to the Alpine Convention — *2017 – 2018*

SELECTED PUBLICATIONS (FULL LIST IN GOOGLE SCHOLAR)

Do It Yourself: Learning Semantic Correspondence from Pseudo-Labels
Olaf Dünkel, Thomas Wimmer, Christian Theobalt, Christian Rupprecht, Adam Kortylewski
In Proceedings of the IEEE/CVF International Conference on Computer Vision (**ICCV**), 2025

Gaussians-to-Life: Text-Driven Animation of 3D Gaussian Splatting Scenes
Thomas Wimmer, Michael Oechsle, Michael Niemeyer, Federico Tombari
In Proceedings of the International Conference on 3D Vision (**3DV**), 2025

MEt3R: Measuring Multi-View Consistency in Generated Images
Mohammad Asim, Christopher Wewer, Thomas Wimmer, Bernt Schiele, and Jan Eric Lenssen
In Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**), 2025

Back to 3D: Few-Shot 3D Keypoint Detection with Back-Projected 2D Features
Thomas Wimmer, Peter Wonka, and Maks Ovsjanikov
In Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**), 2024

Scale-Equivariant Deep Learning for 3D Data
Thomas Wimmer, Vladimir Golkov, Hoai Nam Dang, Moritz Zaiss, Andreas Maier, and Daniel Cremers
Preprint, 2023

Language Models for German Text Simplification: Overcoming Parallel Data Scarcity through Style-specific Pre-training
Miriam Anschütz, Joshua Oehms, Thomas Wimmer, Bartłomiej Jezierski, and Georg Groh
In Findings of the Association for Computational Linguistics (**ACL**), 2023

HONORS, AWARDS AND GRANTS

Project Lead at Saarbrücken Research Center for Visual Computing, Interaction and Artificial Intelligence (VIA) *2025*
- Project-specific collaboration between *Google* and the *Max Planck Institute for Informatics*.

Doctoral Fellow of the Max Planck ETH Center for Learning Systems (CLS) and ELLIS *2024 – 2027*
Scholarship Holder of the Konrad Zuse School of Excellence in Learning and Intelligent Systems (ELIZA) *2023 – 2024*
- Research-oriented Master's scholarship for outstanding talents in AI on track to their PhD. Part of Germany's AI strategy.

Scholarship Holder of the German Academic Scholarship Foundation (Studienstiftung des Deutschen Volkes) *2022 – 2024*
- Monetary and non-material support for outstanding academic achievements and contributions to society

ADDITIONAL INFORMATION

Conference Participation:
International Conference on 3D Vision — Singapore, 2025
IEEE/CVF Conference on Computer Vision and Pattern Recognition — Seattle, USA, 2024
International Geometry Summit (incl. Symposium on Geometry Processing) — Genoa, Italy, 2023

Invited Talks:
From 2D to 3D: Applications of large pre-trained 2D models for 3D shape analysis and generative scene dynamics
Computer Vision and Learning Group (Siyu Tang) — ETH Zürich, 2024
Back to 3D: Few-Shot 3D Keypoint Detection using Back-Projected 2D Features
Departments of Computer Vision (Bernt Schiele) and Visual Computing (Christian Theobalt) — MPI for Informatics, 2024
Autonomous Vision Group (Andreas Geiger) — University of Tübingen, 2024

Reviewer Duties: TPAMI (2024-), CVPR (2025-), ICCV (2025-), NeurIPS (2025-), SIGGRAPH Asia (2025-)
Hobbies: Outdoor sports (Running, Cycling, Climbing, Skiing, Sailing, Football), Reading, Photography, Museums