Thomas Wimmer

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Doctoral researcher in 3D computer vision and representation learning
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 and Representation Learning — *11/2024 – 05/2028*

- 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) [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*

WORK EXPERIENCE

Google — **Zurich, Switzerland**
Student Researcher — *06/2026 – 11/2026*

- Working in the Semantic Perception team of Federico Tombari, hosted by Michael Oechsle.

Technical University of Munich, Google — **Munich, Germany**
Master's 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 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)

QUIV3R: Query-based Iterative 4D Reconstruction from Unposed Video
Thomas Wimmer, Christopher Wewer, Nikolai Kalischek, Michael Niemeyer, Fabian Manhardt, Federico Tombari, Michael Oechsle
Under Review, 2026.

AnyUp: Universal Feature Upsampling
Thomas Wimmer, Prune Truong, Marie-Julie Rakotosaona, Michael Oechsle, Federico Tombari, Bernt Schiele, Jan Eric Lenssen
In Proceedings of the International Conference on Learning Representations (**ICLR**), 2026. **Oral Presentation**

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, 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, Maks Ovsjanikov
In Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**), 2024.

HONORS, AWARDS AND GRANTS

Oral Presentation (~1% of submissions) at the International Conference on Learning Representations (ICLR) *2026*
Outstanding Reviewer Award at the International Conference on Computer Vision (ICCV) (~3% of reviewers) *2025*
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 – 2028*
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 d. Deutschen Volkes) *2022 – 2024*

- Monetary and non-material support for outstanding academic achievements and contributions to society.

ADDITIONAL INFORMATION

Invited Talks:

Beyond Patches: Learning Dense Visual Features
Berlin Learning & Intelligent Systems Society (BLISS) Berlin, 2026

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:
CVPR (2025-27), ICCV/ECCV (2025-26), NeurIPS (2025-26), ICLR (2026-27), SIGGRAPH Asia (2025), TPAMI (2024-26)

Conference Participation:
2026: ICLR; **2025:** ICCV, 3DV; **2024:** CVPR; **2023:** Symposium on Geometry Processing (SGP)

Languages: German (mother tongue), English (fluent), French (professional proficiency), Danish (basic knowledge)

Hobbies: Outdoor sports (Cycling, Climbing, Skiing, Sailing, Football), Reading, Photography, Museums