

# Thomas Wimmer

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## EDUCATION

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**Max-Planck-Institute for Informatics, ETH Zurich** **Saarbrücken, Germany & Zürich, Switzerland**  
*Joint Doctorate, 3D Computer Vision* 11/2024 – 11/2027

- Joint supervision by Prof. Christian Theobalt (MPI-INF), Prof. Bernt Schiele (MPI-INF), and Prof. Siyu Tang (ETHZ).
- Fellow of the Max Planck ETH Center for Learning Systems (CLS) and the European Laboratory for Learning and Intelligent Systems (ELLIS).

**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 Research)  
– Supervisors: Federico Tombari and Prof. 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: Prof. 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: Prof. Daniel Cremers

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

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

- Promotion of gifted students in the field of informatics

## WORK EXPERIENCE

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**Google Research, 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.

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

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

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

## VOLUNTARY WORK

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**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

## PUBLICATIONS

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### **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 Anschutz, Joshua Oehms, Thomas Wimmer, Bartłomiej Jezierski, and Georg Groh

In Findings of the Association for Computational Linguistics (**ACL**), 2023

### **Vorhersage von Spielereignissen während eines Fußballspiels mittels Machine Learning Verfahren**

*Oral Presentation and Young Researcher Award*

Steffen Lang, Thomas Wimmer, Alexander Isenko, and Daniel Link

In 28. Annual Conference of the Commission on Soccer of the German Association for Sports Science (dvs), 2023

### **Joint MR sequence optimization beats pure neural network approaches for spin-echo MRI super-resolution**

Hoai Nam Dang, Vladimir Golkov, Thomas Wimmer, Daniel Cremers, Andreas Maier, and Moritz Zaiss

In International Society for Magnetic Resonance in Medicine (ISMRM) Annual Meeting, 2024

## HONORS AND AWARDS

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### **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. ELIZA is one of three German-wide Konrad Zuse graduate schools that promote academic excellence and are a core component of [Germany's AI strategy](#).

### **Scholarship Holder of the German Academic Scholarship Foundation** (Studienstiftung des Deutschen Volkes)

2022 – 2024

- Monetary and non-material support from one of the most renowned foundations in Germany (< 0.5% of all students are supported for outstanding academic achievements and contributions to society).

### **Award for the best Abitur (High School Diploma) in Physics and Mathematics**

2018

### **Multiple prize winner in the regional Jugend-forscht (youth research) competition**

2016 – 2017

### **Multiple prize winner in the Mathematics Olympiad at the state level**

2010 – 2015

## Additional Information

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### **Conference Participation:**

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:**

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

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