

# Alexey Gavryushin

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Zurich, Switzerland ▪ German Citizenship ▪ Fluent in English, German, Russian

## Education

- 09/24–Present** | **Doctorate**, Computer Vision and Geometry Group, ETH Zurich, Switzerland  
Supervisors: Prof. Dr. Marc Pollefeys, Dr. Xi Wang  
Focus: Egocentric Vision, Hand–Object Interaction, Dexterous Robotics.  
Head TA for [Large Scale AI Engineering](#), [Embodied Intelligence](#), [Robot Learning](#).
- 09/21 – 12/23** | **Computer Science (M. Sc.)**, ETH Zurich, Switzerland  
Final GPA: 5.78 – *graduated with distinction* (scale of 1.0 – 6.0 (best))  
Major: Machine Intelligence, Minor: Data Management  
Skills: Python, C++, PyTorch, NumPy, Pandas, scikit-learn, Computer Vision, LLMs, Vision Foundation Models, Multimodal Models, Diffusion Models, Semantic Segmentation, Human–Object Interaction  
Courses: Big Data (6.0), Computer Vision (5.75), Deep Learning (6.0), Machine Perception (6.0), Research in Computer Science (6.0)  
Thesis: Semi-Supervised Affordance–Conditioned Hand Trajectory Generation From Egocentric Videos
- 10/18 – 08/21** | **Informatics (B. Sc.)**, Technical University of Munich, Germany  
Final GPA: 1.1 – *graduated with high distinction* (scale of 5.0 – 1.0 (best))  
Major: Informatics, Minor: Mathematics
- 09/10 – 06/18** | **High School**, Carl–Spitzweg–Gymnasium Germering, Germany  
Final GPA: 1.0 (*best possible*; scale of 5.0 – 1.0 (best))

## Practical Experience

- 04/24 – 09/24** | **Scientific Assistant**, CVG Group, ETH Zurich, Switzerland  
Worked on egocentric vision and hand trajectory synthesis.
- 12/23 – 03/24** | **Research Assistant**, AIT Lab, ETH Zurich, Switzerland  
Worked on action anticipation and hand trajectory synthesis.
- 11/20 – 03/21** | **Tutor**, Technical University of Munich, Germany  
Teaching classes and grading exams for Functional Programming course.
- 11/18 – 11/20** | **Web Developer** (working student), Upswing Media GmbH, Germany  
Design of websites and apps with focus on automation for businesses.  
Worked with C#, Java, JavaScript, node.js, Python, React, Shopify, Stripe.

## Publications

- 2026** | **CoMind: Understanding Collaborative Human Activity from Multiple Minds and Views**. In Submission.  
[Alexey Gavryushin](#), Dingxi Zhang, Zhao Huang, Alexandros Delitzas, Jiaqi Chen, Ben Ellis, Cedric Zoellner, Manthan Patel, Manuel Kaufmann, Marc Pollefeys, Xi Wang.
- EgoVerse: An Egocentric Human Dataset for Robot Learning from Around the World**. In Submission. [egoverse.ai](https://egoverse.ai)  
Ryan Punamiya, Simar Kareer, Zeyi Liu, Joshua Citron, Ri–Zhao Qiu, Xiongyi Cai, [Alexey Gavryushin](#), et al.
- Reconstructing Functional 3D Scenes from Egocentric Interaction Videos**. CVPR 2026.  
Alexandros Delitzas, Chenyangguang Zhang \*, [Alexey Gavryushin](#) \*, Tommaso Di Mario, Boyang Sun, Rishabh Dabral, Leonidas Guibas, Christian Theobalt, Marc Pollefeys, Francis Engelmann, Daniel Barath.

- 2025 | **MAPLE: Encoding Dexterous Robotic Manipulation Priors Learned from Egocentric Videos.** In Submission. [arXiv:2504.06084](https://arxiv.org/abs/2504.06084).  
Alexey Gavryushin, Xi Wang, Robert J. S. Malate, Chenyu Yang, Xiangyi Jia, Shubh Goel, Davide Liconti, René Zurbrügg, Robert K. Katzschmann, Marc Pollefeys
- 2024 | **ROMEO: Revisiting Optimization Methods for Reconstructing 3D Human-Object Interaction Models From Images.** [Best Paper](#) at [T-CAP, ECCVW 2024](#).  
Alexey Gavryushin, Yifei Liu, Daoji Huang, Yen-Ling Kuo, Julien Valentin, Luc Van Gool, Otmar Hilliges, Xi Wang
- Summarize the Past to Predict the Future: Natural Language Descriptions of Context Boost Multimodal Object Interaction Anticipation.** [CVPR 2024](#).  
 Razvan Pasca\*, Alexey Gavryushin\*, Muhammad Hamza, Yen-Ling Kuo, Kaichun Mo, Luc Van Gool, Otmar Hilliges, Xi Wang

### Special Achievements

- '21 – '23 | **Scholarship Holder**, German Academic Scholarship Foundation  
 Awarded to < 0.5% of all German students
- '18 – '23 | **Scholarship Holder**, Bavaria's Max Weber Programme

### Volunteering

- 06/22 – Present | **Tutor**, Lern-Fair e.V.  
 Free tutoring of disadvantaged students in mathematics, computer science