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. ECCV 2026. comind.ethz.ch
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. RSS 2026. 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. functionalscenes.github.io
Alexandros Delitzas, Chenyangguang Zhang *, Alexey Gavryushin *, Tommaso Di Mario, Boyang Sun, Rishabh Dabral, Leonidas Guibas, Christian Theobalt, Marc Pollefeys, Francis Engelmann, Daniel Barath.

	From Pixels to Part Motion: Full 6DoF Articulated Trajectory Prediction. In Submission. Jiaqi Chen, Alexey Gavryushin, Boyang Sun, Taein Kwon, Marc Pollefeys, Hermann Blum.
2025	**MAPLE: Encoding Dexterous Robotic Manipulation Priors Learned from Egocentric Videos.** In Submission. arXiv: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