



Zhenghao Zhang

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🔧 Competences & Languages

Programming	Python, Java, C#, Solidity, Shell, C, JavaScript, SQL
Office & Writing	LaTeX, Markdown, Microsoft Office
Tools	Git, Conda, SSH, Docker, K8S
Framework & Engine	PyTorch, Unity, Spring, Angular, Flask
🌐 Languages	English, German, Mandarin (native), Japanese (introduction)

🎓 Education

	School of CIT, TU Munich	
Oct. 2023	Master in Informatics	Grade: 1.5 / 4.0
Sep. 2023	Faculty of Computer Science, RWTH Aachen	
Oct. 2019	Bachelor in Informatics	Grade: 2.2 / 4.0
Sep. 2019	Freshman Institute, FH Aachen	
Sep. 2018	Studienkolleg in T-Course	Grade: 1.9 / 4.0

📄 Publications

- Y. Mou*, J. Chen*, **Z. Zhang***, J. Roßmann, S. Decker, "Self-sovereign Identity-based Access Control Management in Forestry 4.0," in *10th International Conference on Future Internet of Things and Cloud (FiCloud)*, 2023, pp. 159-166, doi: 10.1109/FiCloud58648.2023.00031.

🔗 Projects

- Query-aware 3D Open-Vocabulary Instance Segmentation**
Leverage Vision-Language-Models to achieve query-aligned 3D instance segmentation conditioned with arbitrary text inputs. This is part of the course "Advanced Deep Learning for Computer Vision" supervised by Prof. Matthias Niessner.
- ORganizAR: Medical AR Tool for Operating Room Preparation**
Provide user-friendly guidance for organizing operating rooms. Instructions are given based on scene understanding from open-voc segmentation model. This practical project is supervised by Dr. Ulrich Eck.
- Decentralized Access Control in Forestry 4.0**
Explored a decentralized-identity-based access control management system for heterogeneous IoT devices in Forestry 4.0. The project is partially funded by the funding program from the NRW government.

📁 Experiences

	Interdisciplinary Project at fortiss GmbH	
Nov. 2024	End-to-end automated driving enabled by VLM and memory retrieval.	
	Research Internship at Helmholtz Munich	
Oct. 2024	Unified framework for adaption methods in vision context.	
	Teaching Assistant at TU Munich	
Jul. 2024	Introduction to Deep Learning by Prof. Matthias Nießner. (2024SS)	
	Introduction to Deep Learning by Prof. Daniel Cremers. (2024/25WS)	
	Summer Internship at PERCENT Technology Inc.	
Sep. 2021	Participate in developing the Clever BI system and create the user manual website.	
Jul. 2021		