Oliver Lemke

M.Sc. Computer Science | ETH Zurich

Fastlane Scholar | BMW Group

Research Intern | Boston Dynamics AI Institute



- About me

Highly motivated, and dedicated graduate student looking to enroll as a PhD student in 2025. I focus on Machine Intelligence and Computer Vision, with special emphasis on 3D Vision and Autonomous Cars. Excellent organization, communication, and coordination skills acquired through a variety of extra-curricular activities and volunteering experience. Able to effectively self-manage during independent projects.

- Details -

- 2000-02-05
- lemke.oliver@icloud.com
- Zurich, Switzerland
- in Oliver Lemke
- oliver-lemke.github.io/

– Languages

- 🛑 German Native Language
- 🌺 English C2 Proficiency

WORK EXPERIENCE



SCIENTIFIC WORK

Paper	Spot-Compose: A Framework for Open-Vocabulary Ob-	
2024	ject Retrieval and Drawer Manipulation in Point Clouds.	
	Oliver Lemke, Zuria Bauer, René Zurbrügg, Marc Pollefeys,	
	Francis Engelmann, Hermann Blum. ICRA 2024 Workshops.	
	🏆 Best Paper Award	
	also demo'd at 3DV Conference (2024) in Davos, Switzerland	
Paper	Spatial-MQFormer: Spatially Sensitive Data-Retrieval for	
2024	Automotive Contexts. Oliver Lemke, Thomas Stauner,	
	Naveen Nagaraja. (under submission)	
Paper	Entropy Aware Message Passing in Graph Neural Net-	
2024	works. Philipp Nazari*, Oliver Lemke*, Davide Guidobene*,	
	Artiom Gesp*. arXiv preprint arXiv:2403.04636	
Bachelor Thesis	Comparison of Vision-based State Representation Learn-	
2022	ing Algorithms for Reinforcement Learning of Robotic	
	Reaching Tasks. Oliver Lemke, Josip Josifovski, Alois Knoll	

—— Soft Skills an	u otrengens
Analytical Thinking	Highly Organized
Efficient	ard Working
Excellent Communication	on Skills Disciplined
Dependable	Reliable

- Other Interests -

- Gym 🚻
- Reading Hiking
- Volleyball 🖄
- PC Building 🖌

HONORS AND AWARDS

best.in.tum	best.in.tum is a special program by the TUM Department of In-		
	formatics that promotes the top 2% of all Informatics students		
	based on academic results. It is designed to confront the best		
	students with open and especially difficult issues in Informatics,		
	while opening up opportunities for discussion and research.		
Best Paper	Awarded for the paper "Spot-Compose: A Framework for Open-		
Award	Vocabulary Object Retrieval and Drawer Manipulation in Point		
	Clouds" in the Mobile Manipulation Workshop at ICRA.		

EXTRA-CURRICULAR ACTIVITIES

2022	Summer School	Sarntal, Italy
	Technical University of Munich	
	Topic: Deep Learning in Image and Video Processing	
	Summer School for the introduction of and gifted students to advanced fields autonomously steering a toy car with vio	of research. Worked on
09/15-06/18	Max Born Academy	Germering, Germany
	Max-Born-Gymnasium Germering	s e
	Extra-curricular lectures, workshops, an	d excursions in a variety
	of technical, societal, and cultural fields opment of particularly gifted students.	s of study for the devel-

OTHER ACTIVITIES

09/18-07/19	Work and Travel	♥ New Zealand
	Various Companies	
	Lived, worked, and travelled in New 2	
	a Work-and-Travel visa. A trip, which	I undertook and financed
	alone, by working as a receptionist, fai	rm hand, or waiter (among
	other jobs).	

REFERENCES

Marc	Supervisor & Co-Author Spot-Compose
Pollefeys	Professor, ETH Zürich
	➡ marc.pollefeys@inf.ethz.ch
Francis	Supervisor & Co-Author Spot-Compose
Engelmann	Postdoctoral Researcher, Stanford University
	Formerly: Postdoctoral Researcher, ETH Zurich, Google
	≤ engelmann@cs.stanford.edu
Hermann	Supervisor & Co-Author Spot-Compose
Blum	Junior Professor, Lamarr Institute / University of Bonn
	Formerly: Postdoctoral Researcher, ETH Zurich
	✓ blumh@uni-bonn.de
Thomas	Supervisor & Co-Author Spatial-MQFormer
Stauner	Head of Predevelopment: Perception and Prediction, BMW
	➡ Thomas.Stauner@bmw.de