

# Marius Memmel

✉ memmelma@cs.washington.edu | 🌐 memmelma.github.io  
🐱 memmelma | in Marius Memmel | 🐦 @mammelma

## EDUCATION

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<b>University of Washington (UW)</b> <i>PhD Student in Computer Science &amp; Engineering, GPA: 3.81/4.00, in progress</i> <b>Advisors:</b> Prof. Dieter Fox, Prof. Abhishek Gupta	Seattle, US Sept. 2022 – Present
<b>Technical University of Darmstadt (TU Darmstadt)</b> <i>Master of Science, Grade 1.1 (scale 1-6, 1 best), GPA: 3.94/4.00, Top 6.93%</i> <b>Major:</b> Computer Science, <i>Minor:</i> Entrepreneurship & Innovation	Darmstadt, DE Oct. 2019 – Sept. 2022
<b>Swiss Federal Institute of Technology Lausanne (EPFL)</b> <i>Swiss-European Mobility Programme / Exchange Program, Master Thesis</i>	Lausanne, CH Sept. 2021 – May 2022
<b>Appalachian State University</b> <i>Exchange Program, GPA: 4.0/4.0</i>	Boone, US Aug. 2018 – Dec. 2018
<b>Baden-Württemberg Cooperative State University (DHBW)</b> <i>Bachelor of Science, Final Grade 1.4 (scale 1-6, 1 best), GPA: 3.97/4.00, Rank 1</i> <b>Major:</b> Business Information Systems, <i>Concentration:</i> Software Engineering	Mannheim, DE Aug. 2016 – Sept. 2019

## PUBLICATIONS

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- [1] Chen Z., Walsman A., **Mammel M.**, Mo K., Fang A., Fox D.\*, Gupta A.\* "URDFormer: A Pipeline for Constructing Articulated Simulation Environments from Real-World Images", *Robotics: Science and Systems* (RSS), 2024 [paper]
- [2] Khazatsky K., Pertsch K., Nair S., ..., **Mammel M.**, ..., Kollar T., Levine S., Finn C. "DROID: A Large-Scale In-The-Wild Robot Manipulation Dataset", *Robotics: Science and Systems* (RSS), 2024 [paper]
- [3] **Mammel M.**, Wagenmaker A., Zhu C., Fox D., and Gupta A. "ASID: Active Exploration for System Identification and Reconstruction in Robotic Manipulation", *International Conference on Learning Representations* (ICLR) (oral, top 1.2%), 2024 [paper]
- [4] **Mammel M.**, Bachmann R., and Zamir A., "Modality-invariant Visual Odometry for Embodied Vision", *Conference on Computer Vision and Pattern Recognition* (CVPR), 2023 [paper] [arxiv] [code]
- [5] Stammer W., **Mammel M.**, Schramowski P., and Kersting K., "Interactive Disentanglement: Learning Concepts by Interacting with their Prototype Representations", *Conference on Computer Vision and Pattern Recognition* (CVPR), 2022 [paper] [arxiv] [code]
- [6] **Mammel M.**, Liu P., Tateo D., and Peters J., "Dimensionality Reduction and Prioritized Exploration for Policy Search", *Artificial Intelligence and Statistics* (AISTATS), 2022 [paper] [arxiv] [code]

## WORKSHOP & RESEARCH PROJECTS

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- [1] **Mammel M.**, Gonzalez C., and Mukhopadhyay A., "Adversarial Continual Learning for Multi-Domain Hippocampal Segmentation", in *Domain Adaptation and Representation Transfer* (DART) Workshop at *Medical Image Computing and Computer Assisted Intervention* (MICCAI), 2021 [paper] [arxiv] [code]
- [2] **Mammel M.\***, Reich C.\*, Wagner N.\*, and Saeedan F., "Scalable 3D Semantic Segmentation for Gun Detection in CT Scans" (\*equal contribution), *arXiv preprint* 2020 [arxiv] [code]

## THESES

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**Master Thesis:** "Multi-modal Vision Transformers For Data-Efficient Visual Odometry In Embodied Indoor Navigation", Supervisor: Prof. Amir Zamir and Prof. Stefan Roth, TU Darmstadt, 2022 [thesis]

**Bachelor Thesis:** "Conception and Development of a Machine Learning Model for the Analysis of the Energy Consumption of a Plasterboard Dryer", Supervisors: Prof. Julian Reichwald and Halgurt Bapierre, DHBW, 2019 [thesis]

## WORK & RESEARCH EXPERIENCE

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**Graduate Research Assistant** Seattle, US  
*Paul G. Allen School of Computer Science & Engineering* Sept. 2022 – Present

**Robot Learning Research Intern** Pittsburgh, US  
*Bosch USA* June 2024 – Sept. 2024

- Supervised by Jonathan Francis and Bingqing Chen

**Student Research Assistant** Darmstadt, DE  
*Artificial Intelligence and Machine Learning Lab, TU Darmstadt* Nov. 2020 – Aug. 2021

- Supervised by Prof. Kristian Kersting and Wolfgang Stammer

**Student Research Assistant** Darmstadt, DE  
*Medical & Environmental Computing Lab, TU Darmstadt* Oct. 2020 – March 2021

- Supervised by Anirban Mukhopadhyay and Camila Gonzalez

**Machine Learning Engineer (part-time)** Frankfurt, DE  
*Sopra Steria Group SA* Jan. 2020 – Dec. 2020

**Software Engineer (part-time)** Würzburg, DE  
*Knauf IT* Aug. 2016 – Sept. 2019

## AWARDS & SCHOLARSHIPS

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**European Informatics Student Award**  
*Award for the brightest European students to facilitate understanding among the nations* 2022

**Deutschlandstipendium**  
*Merit-based scholarship given to less than 1% of all students in Germany* 2019 – 2020

**Best Graduate**  
*Award for the best graduate of Business Information Systems (Software Engineering) at DHBW* 2019

**Baden-Württemberg-Stipendium**  
*Scholarship given to 1500 high-achieving students/year to promote exchange* 2018

## VOLUNTEERING

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**Volunteer Firefighter** Schweinfurt, DE  
*Freiwillige Feuerwehr Ettleben e.V.* June 2010 – Sept. 2022

**Team Confidant** Darmstadt, DE  
*Darmstadt Athenas e.V.* May 2021 – Oct. 2021

**Social Welfare Officer** Darmstadt, DE  
*Darmstadt Athenas e.V.* Apr. 2020 – May 2021

**Head Organizer Campfire Cup** Würzburg, DE  
*Broombreakers Quidditch Club* June 2018 – June 2020

**Au Pair / English Teacher** Beijing, CN  
*LoPair Education* Nov. 2015 – May 2016