

Lucas Ronchetti

M.Sc. Informatics Student at TUM



PERSONAL INFORMATION

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RELEVANT EXPERIENCE

- 03/2025 – present **Working Student Perception & Grasping** **Magazino GmbH, Munich**
Supported forklift robot perception development through robot testing, teleoperation, dataset generation, annotation, and internal Python tooling. *Technologies: Linux, ROS, Rerun*
- 09/2025 – 04/2026 **Project Leader** **RoboTUM Student Club, Munich**
Led a team of 20 students working on robotic manipulation projects using NEURA, AgileX Piper and LeRobot platforms.
- 09/2023 – 06/2024 **Working Student Data Engineering** **Allianz Kunde und Markt GmbH, Munich**
Development of internal applications for data analytics and generative AI use cases
- 12/2023 – 04/2024 **Informatics B.Sc. Thesis - Grade: 1.3** **Helmholtz Institute of Computational Biology, Munich / Prof. Theis**
Contribution to a deep learning framework in the domain of proteomics, focus on modality fusion

PROJECTS

- 04/2026 – present **Uncertainty-Guided Tactile Shape Exploration** **TUM / Prof. Bäuml**
Active tactile exploration project using uncertainty estimates to guide next-best-touch selection for shape reconstruction. *Technologies: PyTorch, Bayesian Deep Learning*
- 10/2025 – 05/2026 **Imitation Learning for Robotic X-ray Positioning** **TUM / Prof. Navab**
Developed a learning-based approach for robotic X-ray positioning using simulated expert demonstrations. *Technologies: Unity, PyTorch, ZeroMQ*
- 05/2025 – 09/2025 **Object Detection for a Litter-Collecting Robot** **RoboTUM**
Fine-tuned an object detection model for robotic litter detection. *Technologies: YOLO, PyTorch*

EDUCATION

- 10/2024 – present **Master Studies of Informatics - current GPA: 1.5** **Technical University Munich**
Focus on Robotics and Machine Learning
- 10/2020 – 08/2024 **Bachelor Studies of Informatics** **Technical University Munich**
Bachelor thesis in Bioinformatics; project work in autonomous driving.
- 10/2017 – 08/2020 **German Law Studies** **Ludwig-Maximilians-University Munich**
Completion of base studies. Exchange year at Utrecht University, Netherlands
- 06/2017 **Abitur - final grade: 1.4** **Maximiliansgymnasium Munich**

TECHNICAL SKILLS

Programming Python, C, Java
Robotics ROS
Machine Learning PyTorch
Tools Linux, Git, Docker

LANGUAGES

German - native
English - fluent
Italian - A2

HOBBIES

Volleyball and Running
RoboTUM Student Club
Science Fiction Reading