



Yannick Burkhardt

- 📍 Munich, Germany
- 🎂 August 25, 1997
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Interests

- 👁️ Computer vision, machine learning & perception
- 🔧 Robot control, trajectory planning, manipulation
- 🧗 Hiking, football, water polo

Skills

- cplusplus C++, Python, Java
- git ROS, DDS, Conan, Git
- matlab Matlab/ Simulink, Maple, CAD, LaTeX, MS Office

Languages

- 🇩🇪 German: native
- 🇬🇧 English: TOEFL iBT 92%
- 🇪🇸 Spanish
- 🇵🇱 Polish

Education

Apr. 2024 – Present	Technical University of Munich & ETH Zürich (Mobile Robotics Lab) PhD on event-based robot perception International Computer Vision Summer School (ICVSS, University of Catania)
Jul. 2025	
Oct. 2020 – Jul. 2023	Technical University of Munich M.Sc. Robotics, Cognition, Intelligence (Grade: 1.1) Technológico de Costa Rica (Exchange) International Elite Robotics Summer School (University of Southern Denmark)
Feb. – Jun. 2023 Aug. 2022	
Oct. 2016 – Feb. 2020	Karlsruhe Institute of Technology B.Sc. Mechatronics and Information Technology (Grade: 1.6)

Work Experience

Aug. 2023 – Feb. 2024	Agile Robots AG Robot Software Engineer Robot control framework implementation
Oct. 2020 – Jan. 2023	Agile Robots AG Working Student & Master Thesis Visual servo control for deep-learning-based robot grasping, kinematic calibration
Oct. 2019 – May 2020	LEONI Elocab Ltd. Internship in Kitchener, Canada Cable construction and testing
Oct. 2018 – Aug. 2019	Research Center for Information Tech. Research Assistant & Bachelor Thesis Shared Control for commercial vehicle

Publications

- Yannick Burkhardt et al. *SuperEvent: Cross-Modal Learning of Event-based Keypoint Detection for SLAM*. ICCV 2025 (**Highlight**).
Yannick Burkhardt et al. *Multi-fingered Dynamic Grasping for Unknown Objects*. Humanoids 2024.
Balint Varga, Arash Shahirpour, Yannick Burkhardt et al. *Validation of Cooperative Shared-Control Concepts for Large Vehicle-Manipulators*. CCTA 2020.
Balint Varga, Yannick Burkhardt et al. *Shared-Control Concepts for Large Vehicle-Manipulators*. ISIE 2020.

Awards

- Winner of IROS 2025 EvSLAM Challenge (*SuperEvent + OKVIS2*)
PhD scholarship from the Munich Center for Machine Learning (2024)
M.Sc. passed with high distinction (2023): top 1.5% graduate
5×Deutschlandstipendium (2017 – 2023)