

# Jan Benedikt Hünermann

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LOCATION: Munich, Germany

BORN: June 9, 1999—Cologne, Germany

NATIONALITY: German

## Education

- Oct 2017 - Apr 2021 BACHELOR OF SCIENCE in Electrical Engineering and Information Technology, **Technical University Munich**  
*Specialization in machine learning and artificial intelligence*  
Grade: 2.0 (at this writing)
- Nov 2019 - 2021 HONORS DEGREE in Technology Management, **Center for Digital Technology and Management**  
Grade: 1.4 (at this writing)
- Jan 2020 - May 2020 Semester abroad at **National University of Singapore**; coursework in Robotics and Computer Vision

## Professional Experience

- Apr 2019 - present **BMW Group** · Scholarship  
Computer vision research in the context of autonomous driving with a focus on self-supervised monocular depth estimation in dynamic environments. *Tools: PyTorch, Python, LaTeX, Optuna*
- Oct 2019 - Dec 2019 **Magazino GmbH** · Robot Software Engineering Intern  
Development of robot module that models sprinklers in warehouses to avoid them safely; later deployed to customers to increase robot accessible storage by more than 15%. *Tools: C++, ROS, Python*
- Jan 2019 - Jul 2019 **Technical University Munich** · Student Research Assistant  
Gathering of dataset for video affective computing (e.g. how people respond to a video emotionally) using Mechanical Turk; in cooperation with psychology faculty of LMU. *Tools: Python, Django, Vue*
- Sept 2018 - Feb 2019 **TUfast Driverless (student initiative)** · Driverless Perception Engineer  
Built the perception pipeline to detect cones on a racetrack, including simulated dataset with domain-randomization. Deployed to real racecar with >50fps. *Tools: PyTorch, Unity, TensorFlow, CUDA*
- Nov 2018 - Jul 2019 **Technical University Munich** · Tutor  
Teaching around 20 students each week about topics in *Algorithms and Data Structures* (summer semester) and *Digital Design* (winter semester).

## Projects

- Jan 2017 **Self-driving Cars in the Browser**  
Neural network-based reinforcement learning agents in the browser that teach themselves to race around in a 2D environment. More than 100k views and over 4300 stars on GitHub.
- Jun 2018 **Abstract Art with Machine Learning**  
Post about compositional pattern producing networks. It got featured on the TensorFlow website.
- Dec 2020 **Arxivisor**  
Web application to ease browsing of newly published Arxiv papers.

## Honors and Awards

- Apr 2019 **1st place at Siemens AI Lab Hackathon on the topic of *traffic monitoring on the edge***  
Our team used a self-supervised approach to learn object correspondences while running efficiently on a Google Edge TPU.
- Nov 2019 Member of Elite Network of Bavaria

## Extra-Curricular Activities

- Aug 2018 - Jan 2020 **Erasmus Student Network** · Event Organizer  
Organized events in Munich and surrounding region for 500+ exchange students
- Aug 2018 **Summer School on Artificial Intelligence (TUM)** · Participant  
Presented project 'Abstract Art with ML' as a poster presentation
- Jan 2016 **ICACC 2016, Daytona Beach, USA** · Participant  
Presented a 3D-printed quadcopter as part of a school project
- Jun 2013 - Apr 2017 **Self-employed** · Freelancer  
Designed and developed various digital applications for local clubs and companies
- Jun 2015 - Jul 2015 **English language program in Singapore, Education First** · Student  
Spent two months abroad during high school and received a TOEFL score of 110