

Jonas Dieker

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EDUCATION

- 10/2020 - 02/2023** *Department of Informatics, TU Munich, Munich, Germany*
M.Sc. Robotics, Cognition, Intelligence
 - Relevant courses: Machine Learning, Techniques in AI, Deep Learning, Mobile Robotics, Multiple View Geometry, ML for Graphs and Sequential Data
 - Practical: “Learning for Self-Driving Cars and Intelligent Systems”
- 04/2022 - present** *Hybrid Systems Lab - BAIR, UC Berkeley, CA, USA*
Master Thesis in Machine Learning for Sustainability
 - DAAD IFI Scholarship supporting Computer Science Master Theses abroad
- 09/2014 - 06/2019** *James Watt School of Engineering, University of Glasgow, Glasgow, UK*
M.Eng. Mechanical Engineering with Honours of the First Class
 - Relevant courses: Robotics, Advanced Control, Autonomous Vehicle Guidance, Non-linear Dynamics
- 07/2018 - 12/2018** *Norwegian University of Science and Technology, Trondheim, Norway*
Master Thesis in Robotics and Computer Vision
- 09/2016 - 05/2017** *University of British Columbia, Vancouver, Canada*
Mechanical Engineering (Study Abroad, 2 Semesters)

EXPERIENCE

- 04/2022 - present** *Hybrid Systems Lab - BAIR, UC Berkeley, CA, USA*
Visiting Scholar
 - Generative models for simulation of realistic ocean currents
 - Work with oceanic spatio-temporal data and point-reference ground truths
 - Devised solutions: Tuned Simplex Noise and Conditional GANs
- 10/2021 - 03/2022** *Visual Computing & AI Lab, TU Munich, Munich, Germany*
Graduate Research Assistant in Deep Learning
 - Domain adaptation for LiDAR-based object tracking in autonomous driving
 - Creation of data loader for new dataset including multiple sensor modalities
 - Adapted existing research and trained on new internal dataset
 - Built pipeline to visualise predicted bounding boxes in point cloud
- 11/2020 - 10/2021** *FoxInsights GmbH, Munich, Germany*
Working Student in Data Analytics
 - Automating creation and sending of customer invoices with Python by integration of third-party APIs saving 200+ hrs/year
 - Planning and optimisation of internal BI dashboards in Grafana and Klipfolio
 - Analysis of business relevant questions by querying PostgreSQL databases
- 07/2018 - 12/2018** *Norwegian University of Science and Technology, Trondheim, Norway*
Visiting Researcher
 - Thesis title: “Automated Generation of Robot Path for Multi-Pass Welding using a 3D Scanner”
 - Detection and extraction of weld groove geometry from point cloud
 - Developed weld pass planning and execution on KUKA robot
- 07/2017 - 09/2017** *Siemens Mobility GmbH, Berlin, Germany*
Internship in Technical Procurement
 - Market research into suppliers for international rail projects
 - Contact with suppliers for data exchange and creation of a database
 - Presentation on findings of market research

SKILLS

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| Programming | Python: NumPy, Matplotlib, Pandas, Scikit-learn, Keras, OpenCV, PyTorch
Java & C++: Intermediate knowledge |
| Software/Tech | Linux, SQL, Azure, ROS, Git, Docker, MATLAB, CMake, L ^A T _E X |
| Languages | English: Equivalent to native proficiency
German: Native proficiency |