Daniel Dauner

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Education

Mar 2021 – Aug 2023 | **University of Tübingen, Germany**
Master of Science in Computer Science
- *Advisor:* Prof. Andreas Geiger
- *Thesis:* Vehicle Motion Planning using Data-Driven Simulation
- *Overall Grade:* 1.27 *(preliminary)*

Oct 2017 – Jan 2021 | **University of Tübingen, Germany**
Bachelor of Science in Bioinformatics
- *Advisor:* Prof. Nico Pfeifer
- *Thesis:* Acetabulum fracture classification on a large cohort of CT images from German hospitals using 3D CNNs
- *Overall Grade:* 1.55

Aug 2009 – Jun 2017 | **Stiftsgymnasium Sindelfingen, Germany**
Abitur

Teaching & Research

2020 – Now | **University of Tübingen, Germany**

Research Assistant – Autonomous Driving
- *Chair:* Autonomous Vision Group, Prof. Andreas Geiger
- *Aug 2023 – Now:* Miscellaneous Topics in Autonomous Driving Research.

Research Assistant – Medical Informatics
- *Chair:* Methods in Medical Informatics, Prof. Nico Pfeifer
- *May 2021 – Aug 2021:* Acetabulum fracture classification with 3D CNNs on CT-Scans. Cooperation with the BG Clinic Tübingen.

Teaching Assistant – Probability Theory
- *Chair:* Probability Research Group, PD Elmar Teufl
- *Apr 2021 – Jul 2021:* Tutorials in Probability Theory (2 classes, 60+ students)
- *Apr 2020 – Jul 2020:* Tutorials in Probability Theory (1 class, 20 students)

Awards

2023
- **1st Place:** nuPlan Planning Challenge 2023 – Motional
  Our PDM planner won the international nuPlan challenge, with 25 competing teams.

2022
- **1st Place:** Deep Learning Competition – Cognitive Systems Group
  Our Autoencoder ranked first in the lecture competition with 16 participating teams.
- **1st Place:** Self Driving Cars Challenge (3/3), Modular Pipeline – Autonomous Vision Group
  My modular pipeline agent won the lecture competition, with 15 participating teams.

2021

- **1st Place:** Self Driving Cars Challenge (2/3), Reinforcement Learning – Autonomous Vision Group
  My reinforcement learning agent won the lecture competition, with 23 participating teams.
- **1st Place:** Self Driving Cars Challenge (1/3), Imitation Learning – Autonomous Vision Group
  My imitation learning agent won the lecture competition, with 34 participating teams.

2020

- **1st Place:** Artificial Intelligence Competition – Cognitive Systems Group
  Our Chess AI won the in class challenge, with 10+ participating teams.

Qualifications

Programming	Python, Java, C, C++, C#, R, MATLAB, Racket
Libraries	PyTorch, NumPy, JAX, ROS, OpenCV, Numba
Software	Git, Inkscape, LaTeX, Office Suite
Languages	German (native), English (proficient), French (basic)

Publications

2023

[1] **D. Dauner**, "Image reconstruction from event cameras for autonomous driving," in *International Conference on Learning Representations Workshop on Scene Representations for Autonomous Driving*, 2023.

[2] **D. Dauner**, M. Hallgarten, A. Geiger, and K. Chitta, "Parting with misconceptions about learning-based vehicle motion planning," in *Conference on Robot Learning (CoRL)*, 2023.