# Daniel Dauner

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## Education

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| Apr 2021 – Aug 2023 | **University of Tübingen, Germany** <br> *Master of Science in Computer Science* <br> • *Advisor:* Prof. Andreas Geiger <br> • *Thesis:* Vehicle Motion Planning using Data-Driven Simulation *(Grade: 1.0)* <br> • *Overall Grade:* 1.19 *(with distinction)* |
| Oct 2017 – Feb 2021 | **University of Tübingen, Germany** <br> *Bachelor of Science in Bioinformatics* <br> • *Advisor:* Prof. Nico Pfeifer <br> • *Thesis:* Acetabulum fracture classification on a large cohort of CT images from German hospitals using 3D CNNs *(Grade: 1.0)* <br> • *Overall Grade:* 1.55 |
| Aug 2009 – Jun 2017 | **Stiftsgymnasium Sindelfingen, Germany** <br> *Abitur* |

## Teaching & Research

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| 2020 – Now | **University of Tübingen, Germany** <br><br> *Research Assistant – Autonomous Driving* <br> • *Chair:* Autonomous Vision Group, Prof. Andreas Geiger <br> • *Aug 2023 – Now:* Miscellaneous Topics in Autonomous Driving Research. <br><br> *Research Assistant – Medical Informatics* <br> • *Chair:* Methods in Medical Informatics, Prof. Nico Pfeifer <br> • *May 2021 – Aug 2021:* Acetabulum fracture classification with 3D CNNs on CT-Scans. Cooperation with the BG Clinic Tübingen. <br><br> *Teaching Assistant – Probability Theory* <br> • *Chair:* Probability Research Group, PD Elmar Teufl <br> • *Apr 2021 – Jul 2021:* Tutorials in Probability Theory (2 classes, 60+ students) <br> • *Apr 2020 – Jul 2020:* Tutorials in Probability Theory (1 class, 20 students) |

## Awards

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| 2023 | • **1st Place:** nuPlan Planning Challenge 2023 – Motional <br> Our PDM planner won the international nuPlan challenge, with 25 competing teams. |
| 2022 | • **1st Place:** Deep Learning Competition – Cognitive Systems Group <br> Our Autoencoder ranked first in the lecture competition with 16 participating teams. <br> • **1st Place:** Self Driving Cars Challenge (3/3), Modular Pipeline – Autonomous Vision Group <br> 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

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| **Programming** | Python, Java, C, C++, C#, R, MATLAB, Racket |
| **Libraries** | PyTorch, TensorFlow, JAX, NumPy, Numba, ROS, OpenCV |
| **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.