Jens Beißwenger

Eberhard Karls University Tübingen
Fichtenweg 15 room 910, 72076 Tübingen
+49(0)15908610773 | jens.beisswenger@student.uni-tuebingen.de

Education

2022 - now **Eberhard Karls University Tübingen** MSc Computer Science – top 5%
- Expected graduation WS 2024/2025

2017 - 2022 **Karlsruher Institut for Technology** BSc Computer Science
- Projects with Android and Machine Leanring for FPGAs and GPUs (with OpenCL)
- Bachelor thesis: Improving the Sim2Real performance using the FFB6D network (with Python)

2014 - 2017 **Technical College** Schwäbisch Gmünd
- Projects with Machine Learning (with OpenCL)

2008 – 2014 **Secondary school**

2004 - 2008 **Elementary school**

Work experience

Mai 23 - now **Working student at Prof. Dr. Andreas Geigers lab**
- Preparing lecture exercises and assisting in research with the Carla simulator

Sep. 22 – Nov. 22 **Internship at KPMG Lighthouse as Data Scientist**
- Text duplicate detection with Fuzzy Matching and machine learning

2021 - 2022 **Computer lessons for refugees** (so-called DigiCoach)
- Teach refugees how to use computers (especially Linux)

2018 – 2021 **Working student at ZF in the prototyping department**
- Assemble car retractors / prepare for further crash insurance

Programming experience

2023 **Reinforcement learning competition** Implementation a MuZero-inspired agent that competes in a Gymnasium Hokey-like environment – 1st place

2021 **Bachelor thesis** Improving the Sim2Real performance using the FFB6D network (with python)
- Automated rendering of synthetic images with Blender and Python
- Subsequent training of the FFB6D network (with real / synthetic data)
- Goal: Training on synthetic data with good performance on real data

2021 **Maze app** Development of an Android app that uses in-ear headphones
- Controlling a character through a maze with these headphones

2020 **Software development practice** Development of a face recognition app with neural networks
- Programmed with Java and OpenCL
- Using the GPU / CPU / FPGA

2015 2016 **Jugend – Forscht** Development of a camera-controlled model railway with machine learning
- 2. place

- In a GUI you can click on a point to which the train is going on the shortest route
- Own implementation of the image recognition part using convolutional neural networks in Java and OpenCL

2015 2016 **Jugend – Forscht** Development of a GUI (in Java) with which an radio controlled car can be navigated via the WLAN using a webcam

- 3. place

Scholarship

Nov. 22 – Nov 23 Scholarship at e-follows

Skills

Lang. German (native language), English (fluently), Spanish (basic knowledge)

Tech. Python, PyTorch, Java, C++, (OpenCL / OpenGL), SQL, Excel, Linux