


# ONNO EBERHARD, B.Sc.

## Machine Learning Student

University of Tübingen

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## EDUCATION

**M.Sc. Machine Learning**, *University of Tübingen*.

2020 – 2022 International Master's Program in Machine Learning

**B.Sc. Electrical Engineering and Information Technology**, *University of Duisburg-Essen*.

2016 – 2020 *GPA: 1.6\**, *ECTS-Grade: A*, #1 of ~15 (graduated) or ~90 (started). Thesis: [2] (*Grade: 1.1\**)

2018 – 2020 **Computer Science**, *University of Duisburg-Essen*. 90 ECTS points, *GPA: 1.5\**

Aug – Dec 2018 **Exchange Semester**, *Nanyang Technological University Singapore*. Schools: EEE, CSE

2016 – 2019 **Vocational Education**, *Siemens Professional Education*, Mülheim an der Ruhr.  
IHK Apprenticeship as Electronics Technician for Machines and Drive Technology.

2008 – 2016 **Secondary School**, *Georg-Büchner-Gymnasium Seelze*, Hanover. *Abitur with a GPA of 1.3.\**

## EXPERIENCE

Many of my personal projects can be seen at <https://blog.onnoeberhard.com/projects>.

**Siemens Machine Learning Engineer (Working Student)**, *Siemens AG*, Mülheim an der Ruhr.

Sep 2017 – I work in an R&D department for operation and control of combined cycle power plants. I worked on projects for predicting output power at start-up processes for which I developed machine learning pipelines using Python. I wrote my Bachelor's thesis [2] on how to apply this approach to new plants lacking historical data.

**UDE Student Research Assistant (NLP)**, *Language Technology Lab, University of Duisburg-Essen*.

Oct 2019 – In the language technology group at my old university I currently work on automatic speech recognition for low-resource languages. I wrote a paper [1] about using transfer learning in this context and am currently working on a second paper. Before that, I worked on building a spell checking program specialized on errors from language learners.

May – Aug 2019 **Teaching Assistant (Physics Lab)**, *University of Duisburg-Essen*.

**Engineering Internships** — Jul 2015 · *Audi AG*, Ingolstadt — Jan 2014 · *Continental AG*, Hanover

## Volunteering

**RoboCup** · 2019 – I work as a volunteer referee at RoboCup Junior events on a national and international level.

2017 – 2020 I worked at my university's student radio station as a volunteer editor. *CampusFM e.V., Essen*

## HONOURS & AWARDS

**DAAD** · 2018 Awarded the *PROMOS* scholarship by the German Academic Exchange Service (DAAD).

**UDE** · 2017 Awarded the *Deutschlandstipendium* by my university for excellent academic achievements.

**RoboCup Fed.** Second place at the RoboCup World Cup 2012 in Mexico City in the league *Rescue A Primary*,  
2010 – 2014 Fourth place at the RoboCup World Cup 2014 in João Pessoa in *Rescue A Secondary (Superteam)*.

## PREPRINTS & THESES

2021 [1] O. Eberhard and T. Zesch, *Effects of Layer Freezing when Transferring DeepSpeech to New Languages*. arXiv: 2102.04097 [cs.CL], to be submitted to *KONVENS 2021*

2020 [2] O. Eberhard, *Data-driven operational forecasts for newly built power plants*. Bachelor's Thesis, supervised by Steven X. Ding, non-disclosure agreement with Siemens AG

## SKILLS

**Python** Very skilled in Python and many of its scientific libraries (*NumPy*, *PyTorch*, *SciPy*, *Scikit-Learn*, ...). I have been using Python professionally since 2017 and have contributed code to the library *pandas*.

**Languages** I have had separate courses at university on each of the following languages: *Java*, *C*, *C++*, *Haskell*, *Prolog*, *Assembly*, *MATLAB*. I have used all of them (and many more) for personal projects.

**Others** Comfortable with the Linux / bash command line environment. Skilled in  $\text{\LaTeX}$ .

## Languages

**German** Native

**French** Elementary (4 years at school)

**Latin** Elementary (kleines Latinum)

**English** Fluent

**Dutch** Elementary (self-taught)

**Mandarin** Elementary (HSK2 certificate)