Maximilian Müller

Machine Learning Researcher

- 👤 01 June 1995
- ✉ Tübingen and Munich, Germany
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- in LinkedIn
- 🐦 Twitter

Languages

🇩🇪 German		● ● ● ● ●
🇬🇧 English		● ● ● ● ○
🇪🇸 Spanish		● ● ● ● ○

IT Skills

🐍 General Python

🐍 TensorFlow and TF Probability

🐍 Pytorch

🐍 Sklearn

ℝ General R

🗄 SQL

🗄 AWS, AWS IoT, Google Cloud

git Version control with Git

🐳 Docker

Education

PhD Studies

since 2021   **Machine Learning PhD Student**   University of Tübingen, Germany
Safe and reliable ML, Generalization, Optimization

Master and Bachelor Studies

2018 – 2021   **Master Studies in Physics**   LMU Munich, Germany
Machine Learning for Physics and Plasma Physics

Master Thesis ($\varnothing\,1,0$)   Max Planck Institute for Plasma Physics
Topic: Uncertainty quantification with Bayesian Neural Nets for Machine Learning - based fluid simulations

2019 – 2020   **Master Studies in Data Science** ($\varnothing\,9.6/10$)   Barcelona GSE, Spain
NLP, Machine Learning theory, Stochastic Optimization and Reinforcement Learning, Bayesian Methods, Sparse Linear Algebra. Highest final grade of my cohort

Master Thesis ($\varnothing\,9.5/10$)
Topic: Scalable Inference for Crossed Random Effects Models

2014 – 2018   **Bachelor Studies in Physics** ($\varnothing\,1,2$)   LMU Munich, Germany
Focus: Plasma Physics and Medical Physics

Bachelor Thesis ($\varnothing\,1,0$)   Max Planck Institute for Plasma Physics
Topic: Simplified Calculation of Electron Cyclotron Current Drive Efficiency in Reactor-size Plasmas

2016   **Exchange Semester**   Universidad Nacional de Colombia
During 4th semester, supported by PROSA LMU scholarship

High School

2005 – 2013   **High School - Abitur** ($\varnothing\,1,0$)   Gymnasium Geretsried, Germany
Focus: Physics, Highest final grade of my cohort

Professional Experience

2020 - 2021   **Research Assistant in Bayesian Statistics**   Bocconi University
Development of scalable computational algorithms for Bayesian statistics.

2019   **Junior IT Consultant**   TNG Technology Consulting
Developed and evaluated investing strategies on indices using Python during 3 month internship. Also set up end-to-end architecture for IoT-Showcase using AWS and Typescript.

2018   **Working Student in Optics**   Toptica Photonics AG
Developed experimental setup for doppler-free spectroscopy of iodine in 8 month project.

2018   **Research Internship in Particle Physics**   University of Alberta, Canada
Simulated the Gamma background of a bubble chamber with the C++ based program Geant4.

2016 – 2017   **Teaching Assistant**   LMU Munich
Tutor for undergraduate course about mathematical methods for physics and laboratory supervisor for medical students in their physics laboratories.

Awards and Scholarships

2020   **Master's Thesis selected for BGSE Voice Blog**
As part of the series for exceptional Master's projects (link)

since 2013   **Member of Max Weber Program**
Scholarship for gifted students in Bavaria
Includes soft-skill seminars, summer schools and language courses

2013   **TUM award for seminar thesis**
Visitor jury price for the best poster at students conference

2013   **High School awards in Maths and Physics**