Maximilian Müller

Machine Learning Researcher

- 01 June 1995
- Tübingen and Munich, Germany
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- LinkedIn
- Twitter

Languages ———

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

IT Skills ———

General Python

TensorFlow and TF Probability

Pytorch

Sklearn

General R

SQL

AWS, AWS IoT, Google Cloud

Version control with Git

Docker

Education

PhD Studies

since 2021	**Machine Learning PhD Student**	University of Tübingen, Germany
	Safe and reliable ML, Generalization, Optimization. Supervisor: Matthias Hein. Part of the ELLIS program	

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**