

Résumé

Korbinian Moser

Personal Info

✉: korbi@korbinian-moser.de

🌐: www.korbinian-moser.de





🌐: [linkedin.com/in/korbinianm/](https://www.linkedin.com/in/korbinianm/)

R^G: researchgate.net/profile/Korbinian_Moser



🐙: github.com/korbi98

Graduate in physics from Ludwig-Maximilians-University in Munich. My main interests lie within applied research, especially machine learning, plasma physics, computational physics, solid state physics and aviation and computer science/engineering in general.

Experience

12/2023 – PRESENT	OHB SE - System Engineer Working as system engineer in the performance and calibration team on projects like ESAs FORUM mission 
06/2022 – PRESENT	Sinnesfreunde GmbH - Catering Experience with large international trade fairs such as IAA, bauma, Electronica, MWC Barcelona and Paris Airshow
09/2021 – 01/2022	Swiss Plasma Center EPFL Research project regarding data analysis of AXUV measurements of the RADCAM diagnostic at TCV 
11/2020 – 02/2021	Max Planck Institute for Plasma Physics Scientific assistant, working on emission tomography for bolometer measurements via Gaussian process regression 
04/2018 – 01/2019	InTech GmbH Working student, working on train simulation in Matlab/Simulink within the TORPA project for estimating efficiency of different propulsion architectures 
2013 – 2014	Technical Secondary School Wasserburg & EAS GmbH 20 weeks of internships in metalworking and electrical installation during 11th grade






Education

2020 – 2023	M.Sc. in Physics LUDWIG-MAXIMILANS-UNIVERSITY MUNICH Master's thesis: <i>Transport Modeling with Experimental Data and Machine Learning at ASDEX Upgrade</i> 
09/2021 – 02/2022	Erasmus Exchange EPFL LAUSANNE, SWITZERLAND
2017 – 2020	B.Sc. in Physics LUDWIG-MAXIMILANS-UNIVERSITY MUNICH Bachelor thesis: <i>Gaussian Processes for Emission Tomography at ASDEX Upgrade</i> 

Skills

LANGUAGES	German (native), English (fluent), French (beginner)
PROGRAMMING	Python including the SciPy stack and Pytorch, Java, Android app development in Java and Kotlin, basic C/C++ knowledge, Matlab and Simulink
OTHER TECHNICAL SKILLS	Git version control, \LaTeX and Markdown, advanced Linux/Unix knowledge, basic electronic projects with Arduino/RaspberryPi, FDM 3D printing

Research & Projects

2022	Publication in Fusion Science and Technology  GAUSSIAN PROCESS TOMOGRAPHY AT ASDEX UPGRADE WITH MAGNETIC EQUILIBRIUM INFORMATION AND NONSTATIONARY KERNELS
2019	Simple Budget  Android app written in Kotlin for managing expenses. It has an intuitive user interface, custom expense categories and can track budget limits for individual categories.
2018	TORPA  TOOLBOX FOR OPTIMAL RAILWAY PROPULSION ARCHITECTURES Contributed to the project by developing a train simulation in Matlab/Simulink that can estimate the energy consumption of different propulsion architectures on given train routes.
2018	Simple Sudoku  & Simple ToDoList  Sudoku game and ToDoList app for Android written in Java

Volunteer Work

2011 – PRESENT	Voluntary Fire Brigade Active member of local voluntary fire brigade, Since 2018 treasurer of the local fire brigade
----------------	---

Other

2018 – 2022	Deutschlandstipendium scholarship A scholarship funded partially by the German government and private sponsors for committed and high-achieving students in Germany.
09/2016 – 04/2017	Work and Travel in New Zealand Besides traveling I did different farm work and improved my English skills.