

Résumé

Korbinian Moser

Personal Info

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Currently pursuing a Masters degree in physics at Ludwig-Maximilians-University Munich. My main interests lie within applied research, especially nuclear fusion, plasma physics, computational physics and solid state physics.

Experience

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, Garching by Munich 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 – PRESENT	M.Sc. in Physics LUDWIG-MAXIMILANS-UNIVERSITY MUNICH
09/2021 – 02/2022	Erasmus Exchange EPFL LAUSANNE, SWITZERLAND
2017 – 2020	B.Sc. in Physics LUDWIG-MAXIMILANS-UNIVERSITY MUNICH Final grade 1.4, Bachelor thesis: <i>Gaussian Processes for Emission Tomography at ASDEX Upgrade</i> 🐙
2015 – 2016	Abitur TECHNICAL SECONDARY SCHOOL MUNICH EAST
2013 – 2015	Advanced Technical College Certificate TECHNICAL SECONDARY SCHOOL WASSERBURG

Skills

LANGUAGES		German (native), English (fluent), French (beginner)
PROGRAMMING		Python including the SciPy stack, 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

Projects

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  Sudoku game for Android written in Java
2018		Simple ToDoList  Simple ToDo-list 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
2020		Candidacy for municipal council of Moosach

Other

2018 – PRESENT		Deutschlandstipendium scholarship Since April 2018 I am part of the Deutschlandstipendium, 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.