Résumé

Korbinian Moser

Personal Info

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R^G : researchgate.net/profile/Korbinian_Moser

Currently pursuing a Masters degree in physics at Ludwig-Maximilans-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: *Gaussian Processes for Emission Tomography at ASDEX Upgrade*

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

Research & Projects

2022 | **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**

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 – 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.