

# Résumé

## Korbinian Moser

### Personal Info

---

✉: [korbi@korbinian-moser.de](mailto:korbi@korbinian-moser.de)

🌐: [www.korbinian-moser.de](http://www.korbinian-moser.de)

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

R<sup>G</sup>: [researchgate.net/profile/Korbinian\\_Moser](https://researchgate.net/profile/Korbinian_Moser)

🐙: [github.com/korbi98](https://github.com/korbi98)

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

### Experience

---

2022 – 2023

#### 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, 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 – 2023

#### M.Sc. in Physics

LUDWIG-MAXIMILANS-UNIVERSITY MUNICH

Master's thesis: *Transport Modeling with Experimental Data and Machine Learning at ASDEX Upgrade* 

09/2021 – 02/2022

#### Erasmus Exchange

EPFL LAUSANNE, SWITZERLAND

2017 – 2020

#### B.Sc. in Physics

LUDWIG-MAXIMILANS-UNIVERSITY MUNICH

Bachelor thesis: *Gaussian Processes for Emission Tomography at ASDEX Upgrade* 






## 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, $\text{\LaTeX}$ and Markdown, advanced Linux/Unix knowledge, basic electronic projects with Arduino/RaspberryPi, FDM 3D printing

## Research & Projects

---

2022	<b>Publication in Fusion Science and Technology</b>  GAUSSIAN PROCESS TOMOGRAPHY AT ASDEX UPGRADE WITH MAGNETIC EQUILIBRIUM INFORMATION AND NONSTATIONARY KERNELS
2019	<b>Simple Budget</b>  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	<b>TORPA</b>  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	<b>Simple Sudoku</b>  & <b>Simple ToDoList</b>  Sudoku game and ToDoList app for Android written in Java

## Volunteer Work

---

2011 – PRESENT	<b>Voluntary Fire Brigade</b> 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	<b>Deutschlandstipendium scholarship</b> A scholarship funded partially by the German government and private sponsors for committed and high-achieving students in Germany.
09/2016 – 04/2017	<b>Work and Travel in New Zealand</b> Besides traveling I did different farm work and improved my English skills.