

# Résumé

## Korbinian Moser

### Personal Info

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

Currently pursuing a Masters degree in physics at Ludwig-Maximilians-University Munich. My main interests lie within applied research, especially solid state physics, plasma physics and (nano)photonics.

### Experience

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|-------------------|--|
| 11/2020 – PRESENT | <b>Max Planck Institute for plasma physics</b><br>Scientific assistant, working on emission tomography for bolometer measurements via Gaussian process regression                                  |
| 04/2018 – 01/2019 | <b>InTech GmbH, Garching by Munich</b><br>Working student, working on train simulation in Matlab/Simulink within the TORPA project for estimating efficiency of different propulsion architectures |
| 2013 – 2014       | <b>Technical Secondary School Wasserburg &amp; EAS GmbH</b><br>20 weeks of internships in metalworking and electrical installation during 11th grade   |

### Education

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|----------------|--|
| 2020 – PRESENT | <b>M.Sc. in Physics</b><br>LUDWIG-MAXIMILANS-UNIVERSITY MUNICH   |
| 2017 – 2020    | <b>B.Sc. in Physics</b><br>LUDWIG-MAXIMILANS-UNIVERSITY MUNICH<br>Final grade 1.4, Bachelor thesis: <i>Gaussian Processes for Emission Tomography at ASDEX Upgrade</i> 📄 |
| 2015 – 2016    | <b>Abitur</b><br>TECHNICAL SECONDARY SCHOOL MUNICH EAST  |
| 2013 – 2015    | <b>Advanced Technical College Certificate</b><br>TECHNICAL SECONDARY SCHOOL WASSERBURG   |





### Skills

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|------------------------|---|
| 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   |
| OTHER TECHNICAL SKILLS | Git version control, L <sup>A</sup> T <sub>E</sub> X and Markdown, advanced Linux/Unix knowledge, basic electronic projects with Arduino/RaspberryPi, FDM 3D printing |

## Projects

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|------|--|
| 2019 | <b>Simple Budget</b> <br>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> <br>TOOLBOX FOR OPTIMAL RAILWAY PROPULSION ARCHITECTURES<br>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 ToDoList</b> <br>Simple ToDo-list app for Android written in Java   |
| 2018 | <b>Simple Sudoku</b> <br>Sudoku game for Android written in Java  |

## Volunteer Work

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|----------------|---|
| 2011 – PRESENT | <b>Voluntary Fire Brigade</b><br>Active member of local voluntary fire brigade,<br>Since 2018 treasurer of the local fire brigade |
| 2020           | Candidacy for municipal council of Moosach  |

## Other

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|----------------|---|
| 2018 – PRESENT | <b>Deutschlandstipendium scholarship</b><br>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. |
| 2016 – 2017    | <b>Work and Travel in New Zealand</b><br>Besides traveling I did different farm work and improved my english skills.  |