

Moritz Marquardt (B. Sc.)



📍 Barcelona, ES

✉ moritz.marquardt@t-online.de

☎ +49 15142554186

🆔 <https://orcid.org/0009-0005-2569-5624> (ORCID)

Languages

- German (native)
- English (fluent)
- French (B1)
- Catalan (A2)
- Spanish (A2)
- Norwegian (A1)

Programming

- Python (advanced)
- Java (advanced)
- MATLAB (advanced)
- R (intermediate)
- C++ (intermediate)
- JavaScript (intermediate)
- HTML/CSS (intermediate)
- PHP (intermediate)

Software

- Microsoft: Adminstrating MS365 Business and Office-programs (advanced)
- Git and GitHub (advanced)
- Adobe-Software: Photoshop, Illustrator, After Effects, Premiere, InDesign (intermediate)
- Docker (beginner)

Interests and activities:

- Basketball, Cycling, Violin, Skiing and Windsurfing
- Photography, Digital design

Hi, I am Moritz Marquardt, a master's student at the University of Stuttgart, focusing on data science, machine learning, and applications of modelling. After my Erasmus semester at Universitat Autònoma in Barcelona, I am now looking for an internship in Barcelona to put my skills into practice.

Education and studies

- 09/24-02/25 Universitat Autònoma de Barcelona, Faculty of Science (Erasmus)
- Courses from the M.Sc. Modelling for Science and Engineering
 - Machine learning, data visualisation, applications of modelling
- Since 2023 M.Sc. in Simulation Technology, University Stuttgart
- A cluster of excellence (mathematics, physics and data science) at the university of Stuttgart.
- Focus on AI, data science and applications of modelling
- 2022-2023 Bachelor thesis at University of Bergen (UiB), Norway (Erasmus)
- Extension of DarSIA Python-package for image analysis using kernel methods. Background: Porous media experimental set up for investigating geological CO₂ sequestration ([link](#)).
- Grade: 1.0 (top grade, written and presentation)
- 2019-2023 B.Sc. in Simulation Technology, University Stuttgart
- Focus on analytical and numerical mathematics, physics, modelling and simulations, data structures, algorithms and machine learning.
- 2010-2018 Heidehof-Gymnasium, Stuttgart
- Experiences abroad: Exchange to France (1 week) and Canada (3 months secondary school), School Project in Lomé, Togo
 - Graduation: Abitur with an award in Physics. Grade: 1.9

Internships and work experience

- Since 2022 Student research assistant
- Cluster of Excellence EXC 2075, University of Stuttgart.
- Data analysis of molecular dynamics simulations using python and co-author to an article on nanoporous carbon materials.
- 2021-2022 Tutor for experimental physics lecture (2 semesters)
- University of Stuttgart, Physics Institute
- 2019 Internship in scenography & digital design (1 month)
- Tamschick Media & Space, Berlin
- 2019 Technical internship in car manufacturing (2 months)
- Mercedes-Benz, Sindelfingen

Social and extracurricular activities

- 2019-2023 Engagement at the faculty student body, member of the study commission.
- 2017 MUNBW: Participation in a simulation of United Nations in Stuttgart.
- 2016-2018 "Klima-AG": Engagement in the school's climate-club.
- 2017-2021 Private personal tutoring in Mathematics, Chemistry and Physics (3 students).
- 2016-2017 Learning assistant and personal tutor in a school coaching program to help younger students with problems in school.