Tjark Sievers

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Experience

PHYSnet, University of Hamburg	11/2021 - 3/2024

Student employee
- Developed a Django-based web app for inventory management
- Supported users of the PHYSnet compute cluster

Dr. Thore Posske, University of Hamburg	9/2023 - 10/2023

Research assistant
- Helped typeset a course book for the course 'Topology in Condensed Matter Physics'

3S/HiTeC e.V.	5/2019 - 9/2021

IT support
- Installed and configured Linux servers in schools
- First and second level support for Linux servers and clients

Musikakademie Alteglofsheim	9/2017 - 8/2018

Volunteer service in culture and education

Education

University of Hamburg, Hamburg	Since 10/2022

M.Sc. Physics (expected 4/2025)
4/2024 - 7/2024: Stay at Uppsala University

University of Hamburg, Hamburg	7/2022

B.Sc. Physics (Final grade: 1.47)

Werner-Heisenberg-Gymnasium, Heide	7/2017

Abitur (Final grade: 1.5)

Projects

quant-met (Python)
github.com/Ruberhauptmann/quant-met
- Software package to study superconductivity in flat-band systems
- Used to run parallel calculations on the PHYSnet cluster
- Fully tested using unit tests for functions that can be calculated manually and regression tests for more complex functions

Verleihnix (Python, Django, Docker)
- Internal tool for inventory management at PHYSnet
- Automated and sped up many tasks related to managing the PCs, Laptops and Displays in the physics department
- The app is still used and maintained by the current student employees

Skills

Languages: Python, LaTeX, C++
Frameworks: Django, Flask, FastAPI
Development Tools: Docker, Git