

# Tjark Sievers

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## Experience

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**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

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**University of Hamburg, Hamburg** 5/2025

M.Sc. Physics

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

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**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

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**Languages:** Python, LaTeX, C++

**Frameworks:** Django, Flask, FastAPI

**Development Tools:** Docker, Git