

# Siemen Aulich

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## Education

**University:** **M.Sc. Physics | University of Göttingen | 10/2023 – 05/2026**  
*Current GPA: 1.0 (1.0 – best, 4.0 – passed)*  
**Exchange | University of Groningen | 09/2024 – 01/2025**  
**B.Sc. physics | University of Göttingen | 10/2020 – 08/2023**  
*GPA: 1.0 (1.0 – best, 4.0 – passed), with distinction*

**School:** Abitur | 08/2012 – 06/2020 | Thomas-Mann-Schule Lübeck

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## Experience

**Research Experience:** **Research Assistant | DESY Hamburg | 04/2025 – 05/2026**  
*Conducting machine learning focussed research for a Master thesis in the **DESY ATLAS** group and working on the production of silicon detector components for the **ATLAS** detector at **LHC**.*  
**Research Intern | ETH Zürich | 07/2025 – 09/2025**  
*Working on a machine learning focussed particle physics research project, examining **online event selection** for the **Mu3e**-experiment.*  
**DESY Summer Student | DESY Hamburg | 07/2024 – 09/2024**  
*Working on a particle physics research project with the **DESY ATLAS** group, investigating ultra-peripheral lead ion collisions.*

**Teaching Experience:** **Teaching Assistant | University of Göttingen | 09/2023 – 04/2024**  
*Teaching an undergraduate theoretical physics tutorial on classical field theory.*  
**Student Assistant | University of Göttingen | 10/2022 – 03/2023**  
*Aiding a professor with the preparation of teaching material for a theoretical physics class.*

**Voluntary work:** **Team Leader Hamburg | StarCode e.V. | 03/2025 – ongoing**  
*Organising and teaching programming classes for female high school students.*  
**Fellow | Netzwerk Teilchenwelt | 04/2023 – ongoing**  
*Engagement in outreach activities regarding particle physics.*  
**Student Assistant | Physics in Advent | 12/2023 – 12/2024**  
*Various activities supporting the **Physics in Advent** initiative.*  
**Conference Manager | MUNOL | 05/2019 – 06/2020**  
*Collaboratively planning and organising an international **Model***

**United** hosting around 500 delegates and coordinating 120 staff members in a team of five students.

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## Conferences & Workshops

### Workshops:

#### **DESY Summer Student program | DESY Hamburg | 07/2024**

*Apart from a research project the programme featured an extensive lecture programme on particle physics, accelerators technologies and detectors for high energy physics.*

#### **JCNS Laboratory Course | Forschungszentrum Jülich | 09/2023**

*Two-week international laboratory course focussing on the experimental application of neutron scattering organised by the **Jülich Centre for Neutron Science (JCNS)** and the **RWTH Aachen University**.*

#### **Introduction to the Terascale | Helmholtz Alliance | 03/2023**

*One-week introductory school to physics of the terascale with hands-on programming at **DESY**.*

### Conferences:

#### **Fast Machine Learning for Science 2025 | 09/2025**

#### **ATLAS Germany Meeting 2023 | 10/2023**

*Invited as a speaker on quantum entanglement in diboson Higgs decays.*

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## Key Abilities

### Languages:

German (Native speaker)

English (Fluent)

Dutch (Basic knowledge)

French (Basic knowledge)

### Technical skills:

Python (Expert), C/C++ (Expert), Rust (Intermediate), Julia (Intermediate),

Machine Learning (TensorFlow/Keras, PyTorch, ONNX), Scientific Software Development (Git, Testing, CI, HTCondor)

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## Honors

### Scholarship:

#### **Deutschlandstipendium | 10/2021**

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*Scholarship by the German Federal Ministry for Education and Research for gifted and talented students.*

#### **Niedersachsenstipendium | 10/2024**

*Scholarship by the Lower Saxony Ministry for Science and Culture.*

### Awards:

#### **GdCh-Abiturpreis | 07/2020**

*A prize awarded for the best final exam in chemistry by the German Chemical Society.*

#### **3. Prize at the “Bundeswettbewerb für Mathematik” | 09/2020**

*3. Prize in the first round of the German National Competition for Mathematics.*