

Max Melching

Curriculum Vitae

✉ maxm.melching@gmail.com
🌐 maxmelching.github.io

Personal Information

NAME Max Melching
BORN 24.05.2000, Hannover (Germany)

Education

SINCE 2022 **M.Sc. Physics**, *Leibniz University Hannover*, Hannover
MINOR: Mathematics
THESIS TITLE: Systematic Errors In Gravitational Waveform Models

2018 – 2022 **B.Sc. Physics**, *Leibniz University Hannover*, Hannover, Final grade: 1,0 (with honors)
MINOR: Computer Science
THESIS TITLE: Systematic Differences in the Source Properties of the Third Gravitational-Wave Catalog
THESIS DESCRIPTION: studying waveform systematics in some of the detected gravitational wave events, focussing on the respective posterior distributions. This included developing criteria to analyse differences and interpret results.

Work Experience

LEIBNIZ UNIVERSITY HANNOVER

04/2023 – 07/2024 **Student Assistant:** data analysis and software development the Cold Atom Lab experiment onboard the ISS. The latter consisted of development of a Python package that can be used to read, process and evaluate experimental data.

10/2021 – 02/2022 **Student Assistant:** tutoring in “Mechanics and Heat”, a lecture on experimental physics for students in the first semester. This included grading of exercise sheets and the exam, as well as teaching a tutorial.

Honours & Awards

2023/2024 Deutschlandstipendium by Leibniz University Hannover

- 2022/2023 Deutschlandstipendium by Leibniz University Hannover
2020 Niedersachsenstipendium by Leibniz University Hannover
2018 Winner of B!g B4ng Challenge by Leibniz University Hannover
2016 Cambridge First Certificate in English (Level B2)
2015 2. Landespreis in Bundeswettbewerb Fremdsprachen (Latin)

Knowledge & Skills

SOFTWARE

- ADVANCED PYTHON, Jupyter, L^AT_EX, git (includes GitLab, GitHub)
INTERMEDIATE LINUX, Mathematica, C, Microsoft Windows
BASIC MATLAB, Microsoft Office

LANGUAGE

German (native Language), English (conversationally fluent)

Hobbies & Interests

- Football and other sports (American Football, Basketball, Darts)
- Photography (especially landscapes)
- Space and space travel