

Henry Willems

Curriculum Vitae

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Education

- 10/2023–03/2025 **Master of Science in Astrophysics**, *University of Potsdam*, Potsdam, Germany, Grade: 1.5, EQF Level 7
Courses: Astrophysics I & II, Advanced Astrophysics, Methods of Modern Astrophysics, Introductory project and research training.
Thesis: *Determining the physical parameters of eclipsing binaries in the B-Type characterization programme (BBC) with PHOEBE.*
Credits: 120
- 10/2022–09/2023 **Master of Science in Physics**, *University of Potsdam*, Potsdam, Germany, EQF Level 7
Focus: Quantum mechanics, solid state physics, astrophysics (stars and stellar evolution & galaxies and cosmology).
- 10/2019–10/2022 **Bachelor of Science in Physics**, *University of Potsdam*, Potsdam, Germany, Grade: 1.3, EQF Level 6
Courses: Mathematics for Physicists I-IV, Experimental Physics I-V, Theoretical Physics I-V, Lab courses, Climate Physics, Astronomy.
Thesis: *Hunting for the progenitors of helium white dwarfs.*
Credits: 180

Experience

Vocational

- 04/2025–present **Promotional Stipend**, *Max-Planck-Institute for Astronomy*, Heidelberg, Germany
○ Downloading FEROS spectroscopic data from the ESO portal.
○ Organizing and reducing the data (part-time).
- 04/2024–03/2025 **University Research Assistant**, *Max-Planck Institute for Astronomy*, Heidelberg, Germany
○ Downloading FEROS spectroscopic data from the ESO portal.
○ Organizing and reducing the data (17 hours/week).
- 12/2023–02/2024 **Cashier**, *Mittendrin*, Potsdam, Germany
○ Registration of incoming donations.
○ Registration of other incomes and expenses for the community (8 hours/week).

Languages

German Native speaker
English C1
French B1–B2

Proficient
Independent user

Social Engagement

2021/10– **Buddy Program**

2022/03 ○ Helping international students to start their academic lives in Germany, helping with administrative tasks and social life

Skills

MS Office Word, Excel, PowerPoint, Zoom
Programming Python (advanced), C++ (basics)
Operating Systems Linux (Bash/Shell)

Conferences and Workshops

- 09/2024 **Binary and multiple stars in the era of big sky surveys**, Litomyšl, Czech Republic. Talk on master's thesis. kopal2024.physics.muni.cz
- 08/2023 **Workshop on Observational Techniques**, Ondřejov, Czech Republic. Telescope imaging, data reduction, final presentations. Workshop 2023
- 09/2022 **Yearly meeting of the German Astronomical Society**, Bremen, Germany. Gave talk on bachelor's thesis in hot stars splinter session. AG 2022

Publications

- 04/2025 **Henry Willems.** *Determining the physical parameters of eclipsing binaries from the B-Type Binaries Characterization Programme (BBC) with PHOEBE*. Presented at the Binaries Conference (09/2024), and published in *Contributions of the Astronomical Observatory Skalnaté Pleso*, 2025, Vol. 55, No. 3, p. 444. DOI: [10.31577/caosp.2025.55.3.444](https://doi.org/10.31577/caosp.2025.55.3.444)
Paper based on master's thesis (in preparation)

References

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[Prof. Stephan Geier](#)
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