



Henry Willems

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WORK EXPERIENCE

1 APR 2024 – 28 FEB 2025 Heidelberg, Germany

UNIVERSITY RESEARCH ASSISTANT MAX-PLANCK INSTITUTE FOR ASTRONOMY

- Downloading FEROS spectroscopic data from the ESO data portal
- Organizing and reducing the data (17 hours/week)

Address Königstuhl 17, 69117, Heidelberg, Germany

12 DEC 2023 – 29 FEB 2024 Potsdam, Germany

CASHIER MITTENDRIN

- Registration of incoming donations
- Registration of other incomes and expenses for the community (8 hours/week)

Address Bäckerstr. 1, 14467, Potsdam, Germany

EDUCATION AND TRAINING

1 OCT 2023 – CURRENT Potsdam, Germany

MASTER OF SCIENCE University of Potsdam

- Astrophysics I (stars and stellar evolution & galaxies and cosmology)
- Astrophysics II (lab course astrophysics)
- Advanced astrophysics
- Methods of modern astrophysics
- Introductory project and research training

Website <https://www.uni-potsdam.de/en/university-of-potsdam> | **Field of study** Physical sciences not further defined |

Level in EQF EQF level 7 |

Thesis Determining the physical parameters of eclipsing binaries in the B-Type characterization programme (BBC) with PHOEBE

1 OCT 2022 – 30 SEP 2023 Potsdam, Germany

MASTER OF SCIENCE University of Potsdam

Advanced physics: Quantum mechanics, solid state physics, astrophysics (stars and stellar evolution & galaxies and cosmology)

Website <https://www.uni-potsdam.de/en/university-of-potsdam> | **Field of study** Physics | **Level in EQF** EQF level 7

1 OCT 2019 – 14 OCT 2022 Potsdam, Germany

BACHELOR OF SCIENCE University of Potsdam

- Mathematics for physicists I-IV - analysis, linear algebra, complex analysis, statistics
 - Experimental physics I-V energy, time, space, fields, thermodynamics, atomic physics, nuclear physics, solid state physics, molecular physics
 - Theoretical physics I-V - mechanics, electrodynamics, quantum dynamics, statistical and thermodynamics
- Lab courses - introduction and advanced

courses in climate physics and astrophysics (introduction to astronomy and advanced astrophysics)

Website <https://www.uni-potsdam.de/en/university-of-potsdam> | **Field of study** Physics | **Final grade** 1.3 |

Level in EQF EQF level 6 | **Number of credits** 180 | **Thesis** Hunting for the progenitors of helium white dwarfs

LANGUAGE SKILLS

Mother tongue(s): **GERMAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1
FRENCH	B1	B2	B1	B1	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Microsoft Word | Microsoft Excel | Zoom | Microsoft Powerpoint | Python Language - Basic knowledge | Linux (Terminal Commands, Bash/Shell)

CONFERENCES AND SEMINARS

12 SEP 2022 – 16 SEP 2022 Bremen, Germany

Yearly meeting of the German Astronomical Society - Astrophysics from ground to space

Yearly meeting of astronomers around German research institutes.

Broad field of subjects (e.g. hot stars, exoplanets, radio sky)

I gave a talk in the hot stars splinter session about my bachelor's thesis

Link <https://ag2022.astronomische-gesellschaft.de/>

21 AUG 2023 – 1 SEP 2023 Ondřejov, Czech Republic

Workshop on Observational Techniques

Research workshop on evolved stars - a 12-day workshop co-organized by the University of Potsdam.

-Learning how to plan observation nights, taking images with the telescope (flats, darks, science)

-Data reduction and interpretation of results, presenting them at the end of the workshop.

Link <https://stel.asu.cas.cz/en/seminars/workshops/workshop-2023/>

9 SEP 2024 – 13 SEP 2024 Litomyšl, Czech Republic

Binary and multiple stars in the era of big sky surveys

International conference on binaries and multiple stars in the era of big sky surveys.

Giving a talk about my master's thesis

Link <https://kopal2024.physics.muni.cz/>

RECOMMENDATIONS

Prof. Hans-Walter Rix MSc thesis supervisor

He is the supervisor of my master's thesis and an expert in the Milky Way, both as a whole as well as for its stars.

Email rix@mpia.de | **Phone** (+49) 6221528210

Prof. Stephan Geier BSc thesis supervisor

He is the supervisor of my bachelor's thesis and a lecturer in stars and stellar evolution, and in binary stars.

Email sgeier@astro.physik.uni-potsdam.de | **Phone** (+49) 331977230151