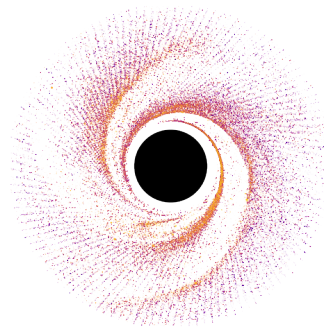


Curriculum Vitae — Maarten Wijdeveld



📍 Address: Straalmanstraat 1, 6521JK, Nijmegen, the Netherlands

✉ Email: maarten.wijdeveld@outlook.com

📞 Phone: +31 6 82009747

References

Dr. M. A. Mościbrodzka

Associate professor, Radboud University
m.moscibrodzka@astro.ru.nl

Dr. O. R. Pols

Associate professor, Radboud University
o.pols@astro.ru.nl

ABOUT ME

From early student work simulating binary mass transfer to recent research involving GRMHD accretion flows, I have consistently pursued research making use of large-scale astrophysical modelling. I love tinkering with astrophysical software and now hope to continue this enthusiasm in a PhD.

EDUCATION

MSc in Particle and Astrophysics - (completed but diploma not yet awarded) 09/2023 - 07/2025
Radboud University, Nijmegen, the Netherlands

- Final grade: 8.7/10, distinction *cum laude*
- Relevant coursework: e.g. BH accretion, GW astronomy, foundations of GR and astroparticle physics

BSc in Physics and Astronomy 09/2019 - 07/2023
Radboud University, Nijmegen, the Netherlands

- Specialisation: Astrophysics
- Erasmus+ Exchange at the Norwegian University of Science and Technology, Trondheim, Norway (01/2023 – 07/2023)

Gymnasium (secondary education) 09/2013 - 07/2019
Christelijk Gymnasium Utrecht, Utrecht, the Netherlands

- Distinction *cum laude*
- Graduated in: Physics, Maths, Advanced Maths, Chemistry, Biology, Latin, Dutch and English language

RESEARCH EXPERIENCE

Master's Thesis Research (60 ECs) 09/2023 - 07/2025
Radboud University, Nijmegen, the Netherlands

- Grade: 9.0/10
- Worked on relativistic radiative transfer simulations to study the emission from magnetically arrested disk GRMHD simulations of Sagittarius A*, supervised by Dr. Monika Mościbrodzka

Conference Research Poster 05/2025
Netherlands Astronomy Conference, Berg en Dal, the Netherlands

- Presented part of my MSc research as a poster at the 80th Netherlands Astronomy Conference

Bachelor's Thesis Research

09/2022 - 05/2023

Radboud University, Nijmegen, the Netherlands

- Grade: 9.0/10 (top 10% of that years submissions)
- Conducted binary evolution simulations in MESA to model type-B subdwarf progenitors that undergo mass transfer through stable Roche-lobe overflow; supervised by Dr. Onno Pols
- First learned how to work with a large-scale computing cluster and gained experience efficiently processing and visualising my simulation data in Python

TEACHING AND LEADERSHIP EXPERIENCE

Teaching Assistant

09/2024 - 12/2024

Radboud University, Nijmegen, the Netherlands

- TA for Programming 1 (Python) for first-year Physics and Mathematics undergraduates
- TA for Extreme Astrophysics, a 3rd-year bachelor course, covering high-energy astrophysics

Astronomy Outreach

10/2023 - present

Radboud University, Nijmegen, the Netherlands

- Led tours of the university telescope domes and gave gravity well demonstrations

Movie Night Committee

09/2023 - present

Olympus student association, Nijmegen, the Netherlands

- Led the yearly student movie night promo-subcommittee at the Faculty of Science (350+ attendees), completely overhauling, rebranding and coordinating all promotional material from scratch

Student Mentor

2020 - 2021

Radboud University, Nijmegen, the Netherlands

- Guided a group of 15 new bachelor students and organised bi-weekly meetings to help them transition to university life

OTHER EXPERIENCE

Digitizer Testing

02/2024 - 07/2024

Radboud Radio Lab, Nijmegen, the Netherlands

- Part of a small student team that manually tested 1500+ digitisers at the Radboud Radio Lab for the recent radio antenna upgrade at the Pierre Auger Observatory in Argentina

COMPUTATIONAL EXPERIENCE

- **Python:** Extensive experience in scientific data analysis, visualisation and (lightweight) modelling
- **C, Fortran:** Experienced with operating, altering and bash-pipelining large-scale codes on a computing cluster, such as OpenFOAM, MESA, ebhlight and grmonty
- **LaTeX:** Proficient in typesetting research documents and reports

LANGUAGES

- **Dutch:** Native speaker
- **English:** Full bilingual proficiency, Cambridge C2 proficiency (awarded 01/2019)
- **Bokmål Norwegian:** Basic proficiency (A1/A2)
- **Mandarin Chinese:** HSK 1 certificate (A1)

HOBBIES AND INTERESTS

- Long-distance solo mountain trekking (hiking + camping, 100+ km) for five years. This has taught me independence, planning, adaptability and resilience.
- I am a member of a student climbing association, enjoy sketching, and have a soft spot for cats.