

# KAROL PATRYK KISIELOWSKI

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## EDUCATION

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**University of Groningen, Netherlands**  
Master of Science in Astronomy

**February 2025 —**  
Theoretical & Observational Astronomy, Data Science Track

**University of Groningen, Netherlands**  
Bachelor of Science in Astronomy

**September 2021 — January 2025**  
Average Grade: 7/10

- Awards: Best Astronomy Poster at a faculty-wide Physics, Astronomy and Mathematics Symposium

## RESEARCH EXPERIENCE

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### **Bachelor Research Project Astronomy**

Groningen, Netherlands

*"Star Formation Histories of Galaxies in WEAVE Galaxy Clusters"*

April 2024 - July 2024

- Researching the Stellar Populations of Galaxy Clusters of the WEAVE galaxy clusters survey.
- Developing **WEST** - The WEAVE Essential SFH Tools, a collection of Python routines designed to process and analyze WEAVE data, inferring the Star Formation Histories of individual galaxies of the cluster.

### **Practical Astronomy Crew**

Groningen, Netherlands

*Group member for the Sky Brightness Project*

July 2022 - July 2023

- Researching the sky brightness above the Zernike Campus and the Lauwersoog Dark Sky Park.

## TEACHING EXPERIENCE

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### **University of Groningen**

Netherlands

*Student Assistant (Introduction to Astronomy)*

November 2022 - January 2023 & November 2023 - January 2024

- Facilitated the learning process by hosting tutorial sessions once a week for ca. 20 students and assisted in solving problems.
- Graded one set of homework for all students.
- Graded a total of 4 exams.

*Student Assistant (Observational Astronomy)*

April - June 2023, 2024, 2025

- Overseeing four groups of students and assisting with the observational project - writing code to process and present astronomical data, creating a presentation and a scientific poster.
- Oversee students in groups of four during astronomical observations at the Blauw Observatory.

*Student Assistant (Physics Lab: Advanced Applications 2)*

November 2024 - January 2025

- Supervising students working on experiments investigating: annihilation radiation, and calibration of the MiniPIX TPX3 sensor.
- Assessed students' preparation for the experiment and graded 18 lab reports.

*Student Assistant (The Evolving Universe)*

November 2024 - January 2025

- Facilitated the learning process by hosting tutorial sessions once a week for ca. 20 students and assisted in solving problems.
- Graded a total of 5 homeworks.

*Student Assistant (Physics Lab: Skills)*

September - October 2024

- Overseeing Physics Lab sessions for ca. 8 students, providing assistance and ensuring the safety of students.
- Grading lab reports for 8 separate experiments.

*Student Assistant (Practical Course Optics and Cell Biology)*

October - November 2023 & September - October 2024

- Overseeing Optics Lab sessions for ca. 12 students, providing assistance and ensuring the safety of students.
- Grading lab reports for three separate experiments.

*Student Assistant (Programming for Life Sciences)*

March - April 2025

- Supervise computer labs where students work on coding assignments.
- Evaluate students' coding projects and provide feedback.

*Student Assistant (Electricity & Magnetism Practicals)*

February - March 2025

- Supervise Electricity and Magnetism Practicals sessions where students perform experiments.
- Evaluate students' lab reports and provide feedback.

## Certificates and Training

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- Radiation Protection Officer Certificate: Dispersible radioactive materials level D (VRS-D) & Measurement and control applications – sealed radioactive sources (MR-B)  
Occupational health and safety, University of Groningen
- Telescope Observer Training — Gratama and Lauwersmeer optical telescopes. Observed for total of  $\sim 20$  nights.
- Teaching Assistant Training Certificate (February 2023)  
Professional development and innovation in education (PIE), Faculty of Science and Engineering,  
University of Groningen

## Skills

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- Python,  $\LaTeX$ , Linux/UNIX — Advanced
- DS9, Aladin, TOPCAT — Competent

## Languages

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- Polish — Native
- English — Professional proficiency
- Spanish — Basic (A1/A2)

## Other

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- Activity Coordinator of the Social Committee of the Polish Student Association Groningen
- Driving License: Category B, A2 in progress