



# dr. Jurjen de Jong

Radio Astronomer | Software Developer

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## LANGUAGES

Dutch	★★★★★
English	★★★★★
German	★★★☆☆
Swedish	★☆☆☆☆
French	★☆☆☆☆

## TECH STACK

**Operating systems:**  
Unix/Linux, Windows

**Programming languages:**  
Python, Bash, R, Julia, SQL, Rust

**Database management:**  
MySQL, MongoDB

**Workflow/cluster management:**  
HPC, Slurm, CWL, Toil

**Machine learning:**  
scikit-learn, Keras, Tensorflow, PyTorch

**DevOps tools (CI/CD):**  
Singularity, Docker, version control (Git)

**Project management experience:**  
Scrum, Jira, Trello

**Other:**  
Tableau, PowerBI, SolidWorks, LaTeX, Jupyter, AWS

## HOBBYS

**Football, hiking, yoga, reading, writing, coding**

I am a radio astronomer and software developer. With experience as data scientist in a commercial company and with a PhD in radio astronomy, where I developed data processing and analysis pipelines for the LOFAR telescope, I have established myself as a versatile professional who can adapt to different environments.

## Experience

- 2025-now  
**Software developer**  
ASTRON  
Developing software for radio astronomy
- 2021-now  
**Radio astronomer**  
Leiden Observatory  
Developing and improving data pipelines on HPC clusters
- 2019-2021  
**Data scientist**  
Matrixian Group  
Developing data products and machine learning-driven data pipelines
- 2018-2019  
**Astronomer**  
European Space Agency  
Testing mathematical laws on large datasets
- 2017-2020  
**Science writer**  
Scientias  
Writing popular science articles
- 2017-2017  
**Mechanical Engineer**  
EPPM (Tunisia)  
Calculating stresses of lifting lugs

## Education

- 2021-2025  
**Astronomy (PhD)**  
Leiden Observatory  
Thesis: Cosmic Depth & Detail
- 2017-2018  
**Space Studies (master)**  
Leuven University  
Thesis: Benford's law in Gaia DR2
- 2015-2017  
**Mathematics (master)**  
Ghent University  
Thesis: Fox-H functions
- 2013-2015  
**Physics (bachelor)**  
Utrecht University  
Thesis: Study of ancient Indian astronomy
- 2012-2015  
**Mathematics (bachelor)**  
Utrecht University  
Minor: History/philosophy of science
- 2011-2012  
**Mechanical engineering**  
Avans Hogeschool Breda  
Propadeautics

## Other activities

- Founder of Stamly ([www.stamly.org](http://www.stamly.org))
- Presented at several major scientific conferences
- First-author of 6 scientific papers + 1 PhD thesis
- Awarded 2x with an NWO computing grant (2024)
- Awarded 2x with a scholarship from LKBF (2021 and 2025)
- Awarded with a scholarship by Flanders Trainee Programme (2018)
- Completed additional courses in machine learning, data engineering/science, earth observation, and business