



# dr. Jurjen de Jong

Radio astronomer | Software developer

- +31657611726
- jurjong@proton.me
- jurjen93.github.io
- Leiden, the Netherlands
- ORCID: 0000-0001-6876-8719

## LANGUAGES

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

## TECH STACK

### Operating systems:

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:

Singularity, Docker, version control (Git)

### Project management experience:

Scrum, Jira, Trello

### Other:

Tableau, SolidWorks, LaTeX

## HOBBYS

Football, hiking, yoga, reading, writing, coding

Software Developer & Radio Astronomer with a multidisciplinary background and international experience gained through studying, working, and living across multiple countries. Driven by a passion for exploring and analysing complex challenges, with a focus on delivering impactful and meaningful solutions.

## 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 Stamily ([www.stamily.org](http://www.stamily.org))
- Presented at several major (astronomy/stuttering) conferences
- First-author from 6 scientific papers + 1 PhD thesis
- Awarded with an NWO computing grant (2024)
- Awarded with a scholarship from Leids Kerkhoven-Bosscha Fonds (2021)
- Awarded with a scholarship by Flanders Trainee Programme (2018)
- Completed additional courses in machine learning, data engineering/science, earth observation, and business