



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 Stamily (www.stamily.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