



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

Radio astronomer and software developer with a background in various fields and industries. Obtained international experience by studying, working, and living in different countries. Eager to delve into, analyse, and tackle challenges, with the aim of creating a positive impact on humanity, nature, and our planet.

Experience

- 2017–2017
Mechanical Engineer
EPPM (Tunisia)
Calculated stresses of lifting lugs
- 2017–2020
Science writer
Scientias
Wrote about science and technology
- 2018–2019
Astronomer
European Space Agency
Studied distances between stars
- 2019–2021
Data scientist
Matrixian Group
Developed data products and machine learning-driven data models
- 2021–2027
Radio astronomer
Leiden Observatory
Advancing calibration and imaging pipelines to study radio galaxies

Education

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

Other activities

- Founder of Stamily (www.stamily.org)
- Presented at several major (astronomy/stuttering) conferences
- Lead author of 6 scientific papers
- 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)