JURJEN DE JONG

Radio astronomer | Software developer

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📍 Leiden, the Netherlands

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Radio astronomer and software developer with a background in various fields and industries. Obtained international experience by studying, working, and living in different countries. Passionate about exploring, analyzing, and solving complex challenges with the aim to create meaningful impact.

LANGUAGES

Language	Rating
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

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)