



JURJEN DE JONG

Astronomer | Data scientist

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- Leiden, the Netherlands

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

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

DevOps tools:
Singularity, Docker, version control (Git)

Other:
Tableau, SolidWorks, LaTeX

PUBLICATIONS

- de Jong et al. , in prep.
Deepest ELAIS-N1 radio map at low freq.
- de Jong et al. 2023, accepted in A&A
Cosmic evolution of FRI and FR II to z=2.5
- de Jong et al. 2022, A&A, Vol. 668, 19 pp.
Deep study of A399-401
- de Jong et al. 2020, A&A, Vol. 642, 16 pp.
Benford's law in the Gaia Universe

(note: only first-authored papers are listed)

(Data) scientist 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
- 2021-2025
Radio astronomer
Leiden Observatory
Developing calibration and imaging pipeline 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: TBD

Additional activities

- Founder of Stamily (www.stamily.org)
- Co-founder Asbronomers (astronomy blogs/vlogs)
- Presented at several major (astronomy/stuttering) conferences
- Completed additional courses in:
Science communication, Earth observation, Basic Chinese language and culture, Data Science traineeship