



# JURJEN DE JONG

## Astronomer | Data scientist

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Leiden, the Netherlands

### LANGUAGES

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

### TECH STACK

#### 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.

Automated LOFAR VLBI data reduction

#### de Jong et al. in prep.

Sidereal visibility averaging

#### de Jong et al. 2024, accepted in A&A

Into the Depths: Unveiling deepest ELAIS-N1

#### de Jong et al. 2024, A&A, Vol. 683, 17 pp.

Cosmic evolution of FRI and FRII 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, research software engineer, and astronomer 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](http://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