



# 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

#### 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. 2023, in prep.

Deepest ELAIS-N1 radio map at low freq.

#### de Jong et al. 2022, accepted

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. Passionate to explore, analyse, and resolve challenges. Eager to contribute to endeavors that make 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 (Msc.)**  
Leuven University  
Thesis: Benford's law in Gaia DR2
- 2021–2015  
**Astronomy (PhD)**  
Leiden Observatory  
Thesis: TBD

### Other

- 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