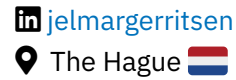
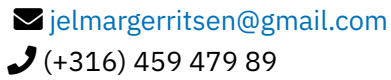


Jelmar Gerritsen



About me

I'm a driven researcher with a broad academic background. My extensive experience in software engineering allows me to bridge the gap between theoretical research and practical implementation while writing clean and maintainable code. I have expertise in numerical modeling, remote sensing, machine learning and astrodynamics.

Education

MSc Aerospace Engineering  2021 - present

 TU Delft

Track: Planetary Sciences. Course/grade list available upon request. GPA: 7.5/10

BSc Physics & Astronomy  2016 - 2021

 Radboud University

Minors: Astronomy, Climate science. Also completed 2 semesters towards a BSc in Computer Science. GPA: 7.0/10

Experience

Programming teacher  April 2021 - May 2021

 Stanford University, online


I was a section leader for Stanford Code In Place, where I taught Python to an international class of 10 students for around 5 weeks.

Projection technician  January 2020 - June 2021

 Stichting LUX

I was responsible for daily cinema operations, scheduling and maintenance.

Teaching assistant  Winter 2019

 Radboud University

Course taught: Energy & Sustainability. I designed my own case study on the renewability of a campus building for the students to take on.

Badger keeper  October 2018 - January 2020

 Stichting Das & Boom

I volunteered at a shelter for rescue badgers. In addition, I developed a software app using GIS and React for logging & visualising roadkill casualties to aid in conservation efforts.

Projects

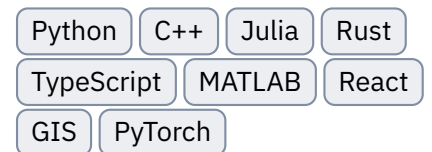
Apygee   2024

A Python library for creating, manipulating and visualizing Kepler orbits, using popular scientific packages like numpy, scipy and matplotlib. Published on PyPi.



Wikigraph   2022

A React app for visualizing graph connections between Wikipedia pages. I hand-rolled my own Wikimedia API interface in TypeScript and displayed the graphs using react-three-fiber.



Skills



Achievements







 IAC paper selection  2024

My first author paper "NOMAD: Neptune Orbiter Mission for Auroral Detection" was accepted for presentation at the International Astronautical Congress (IAC) in Milan.

 BAPC preliminaries 3rd place  2017

My team and I came in 3rd in the Benelux Algorithm Programming Contest, qualifying us for the finals in Amsterdam.

Languages

Dutch		Native
English		C2
German		B2
French		A2
Swedish		A1
Chinese		A1