

Joost van Dalen

+31 6 31066287 | dalenvanjoost@gmail.com | Koestraat 234 | 4331 KX, Middelburg

About: Enthusiastic in all topics related to water management, such as sustainable water system management and water quality restoration. My personal interest is to combine theoretical knowledge with geo-information concepts like earth observation, spatial programming and geographic information science

Technical skills

- ArcGIS Pro 2.7
- ERDAS IMAGINE 2018
- QGIS 3.16
- PostgreSQL 13
- PostGIS 3
- GeoServer 2.18

Programming skills

- Python

Intermediate knowledge on *Rasterio*,
Numpy, *Fiona* and more

- SQL

Advanced knowledge on SQL and
spatial queries using *PostGIS*

Courses & certificates

- Drivers license B
- Basic Safety SCC
- Small hydraulic waterworks
- Basic sewage

Personal interests

- Exercise, such as playing & refereeing korfbal, running and longboarding
- Reading about nature, history and fiction

Education

BSc, Water Management: Aquatic Ecotechnology

2018 - present

HZ University of Applied Sciences, Middelburg

- Knowledge on biology, hydrology and chemistry of marine and freshwater systems
- Conducting research and subsequent interpretation
- Identifying and solving concerns such as water quality, degradation of (aquatic) ecosystems and climate adaptation measures

Minor Geo-Information for Environment and Society

Feb 2021 – Jul 2021

Wageningen University & Research, Wageningen

- Knowledge on theoretical concepts related to geo-information science and remote sensing
- Applying geo-information science to analyse and solve spatial issues

MBO-4, Watermanagement

2015-2018

Lentiz MBO Westland, Naaldwijk

- Practical knowledge on aquatic systems, project management and conducting basic research

Relevant professional experience

Intern

Jul 2020 – Feb 2021

Deltares: department of Data Science & Water quality, Delft

- Data acquisition and management of open-source datasets in PostgreSQL/PostGIS for the [Coastal Hazard Wheel Application](#)
- Processing of spatial data using SQL, GDAL and Python
- Creation of webmaps for the [Coastal Hazard Wheel](#), [Dutch National Hydrological Instrument \(NHI\)](#) and the department of Infrastructure in the Dominican Republic using GeoServer

Nov 2017 – Jul 2018

Graduate intern

Province of Zuid-Holland: department of Infrastructure, The Hague

- Research on exit facilities for civilians and fauna from provincial waterways
- Writing new policy based on the research outcomes

Other professional experience

| | | |
|-------------------------------|-----------------------------------|---------------------|
| • Receptionist | HZ University of Applied Sciences | Aug 2021 - present |
| • Parking enforcement officer | Gemeente Veere | Apr 2019 – Jul 2020 |
| • Production assistant | Lansbergen Orchids | Feb 2015 – Mar 2019 |
| • Intern | Province of Zuid-Holland | May 2017 – Jul 2017 |
| • Intern | Water Board of Delfland | Aug 2016 – Nov 2016 |
| • Intern | Municipality of Midden-Delfland | Feb 2016 – Apr 2016 |

Volunteering

Member of the University Council

Dec 2018 – Jan 2021

HZ University of Applied Sciences, Vlissingen

- Consulting and reviewing proposals from the Executive Board
- Consulting and approving matters of the university such as budget, policy and regulations

Member of the Education Committee Water Management

Sep 2018 – Sep 2019

HZ University of Applied Sciences, Middelburg

- Monitoring and ensuring quality of the education, policy formation and syllabus