Joost van Dalen

joostvandalen.com

About: I am an environmental geographer studying Geo-Information Science at Wageningen University & Research. My personal interest is to integrate remote sensing technologies and water resources management to study water quality and water quantity issues in the aquatic environment.

Skills

- Geoprocessing
  - QGIS
  - ArcGIS Pro

- Data management
  - PostgreSQL
  - PostGIS

- Web mapping
  - GeoServer

- EO processing
  - ERDAS IMAGINE 2018

Programming skills

- Python
  - (Geo) Pandas
  - Numpy
  - Rasterio
  - Fiona

- SQL
  - Standard queries
  - Spatial queries (PostGIS)

Courses & certificates

- ARSET: Monitoring Coastal and Estuarine Water Quality
- Udemy:
  - The Complete Python Bootcamp
  - The Complete SQL Bootcamp

Personal interests

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

Education

MSc, Geo-Information Science
Wageningen University & Research | Aug '22 – present
- Subjects in remote sensing, geoprocessing, statistics, and modelling of water resources
- Applying geo-information to analyse and solve spatial issues (e.g., project on terrain dependency of deforestation in Borneo)

BSc, Water Management: Aquatic Ecotechnology
HZ University of Applied Sciences | Aug '18 – Jul '22
- Knowledge on biology, hydrology and chemistry of marine and freshwater systems
- Identifying and solving concerns such as water quality, degradation of (aquatic) ecosystems and climate adaptation measures

MBO-4, Water management
Lentiz MBO Westland | Sept '15 – Jul '18
- Practical knowledge on aquatic systems, project management and conducting basic research

Relevant professional experience

Graduate Intern
The Ocean Cleanup · Data & Monitoring | Feb '22 – Jul '22
- Literature review related to the quantification of macroplastic in riverine environments
- Data wrangling and processing of several plastic datasets from field observations
- Select, test and validate different data collection methods to estimate macroplastic flux from rivers to the oceans

Geodata Intern
Deltares · Data Science & Water quality | Jul '20 – Feb '21
- 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

Other professional experience

Receptionist	HZ University of Applied Sciences	Aug '21 – Jan '22
Parking enforcement officer	Gemeente Veere	Apr '19 – Jul '20
Production assistant	Lansbergen Orchids	Feb '15 – Mar '19
Graduate Intern	Province of Zuid-Holland	May '17 – Jul '18
Intern	Water Board of Delfland	Aug '16 – Nov '16
Intern	Municipality of Midden-Delfland	Feb '16 – Apr '16

Volunteering

Member of the University Council
HZ University of Applied Sciences | Dec '18 – Jan '21
- 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
HZ University of Applied Sciences | Sept '18 – Sept '19
- Monitoring and ensuring quality of the education, policy formation and syllabus