

# QUAN PAN

CURRENT: DATA SCIENTIST



*Do not limit your potentials and  
creativities!*

## KEY STRENGTH

Productive, motivated, strong work ethic, willing to think and work outside working hours.

Easy to get along with, never sabotage or bring down team morale.

## CONTACT

+31 6 192 131 85  
quanpan302@hotmail.com

Schiedam, The Netherlands

## WORK EXPERIENCE

### Spatial Programmer

2019.09 – present

Land Water Management Department, IHE-Delft

- Standardize research software development in the team.
- Develop research softwares.
- Maintain open source tools.

### Data Scientist

2018.09 – 2019.08

Hydrology Department, Deltares

- Process large scale geospatial datasets by using GDAL library.
- Build python tools for spatial-temporal data analysis.
- Develop machine learning solution for time series data.
- Design database schema and web application architecture.
- Maintain web service under cloud environment.
- Prototyping innovative technologies.

### Researcher

2012.07 – 2014.01

Hydro-informatics, UNESCO-IHE

- Scientific research on hydrodynamics in delta area.
- Guide master students.

### Engineer

2007.07 – 2010.07

Shanghai Dredging Company, China

## EDUCATION

### PhD Researcher

2014.01 – present

Hydro-informatics, UNESCO-IHE and Civil Engineering, TU Delft

Thesis: “Web-based Framework For Optimization and Decision Support Using Complex Water Models”

- ICeWATER project
  - Web-based DSS, online simulation and optimization.
- WatEcnomics project
  - Web-based DSS, online simulation.
- Taihu Lake project
  - Water Quality, web-based DSS, online simulation, optimization, machine learning and surrogate model.

### Master of Science (MSc)

2010.10 – 2012.05

Coastal Engineering and Port Development, UNESCO-IHE, Delft, The Netherlands

### Bachelor of Science (B.S.)

2003.09 – 2007.07

Port, Coast and River-Regulating Engineering, Wuhan University (ranked 7<sup>th</sup> top Chinese university, 2003), Wuhan, China

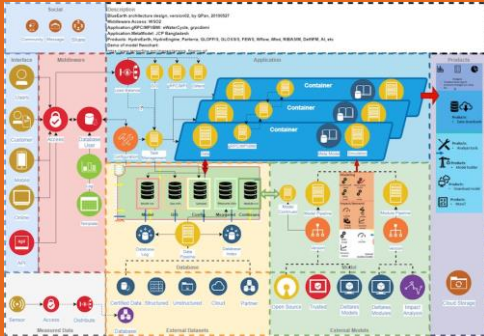
# PORTFOLIO

[www.quanpan302.com](http://www.quanpan302.com)

## Web Application



## Architecture Design



## REFERRERS

**Pieter Van Der Zaag,**

Professor of Integrated Water Resources Management, IHE-Delft

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**Marloes Mul**

Senior Lecturer in Water Resources Management, IHE-Delft

+31152151131, [m.mul@un-ihe.org](mailto:m.mul@un-ihe.org)

## SKILLS

Fortran, C, C++, Python, Matlab, PHP, JavaScript, CSS, Database, LaTeX, Docker, Linux, AWS, GIS

Numerical methods, Optimization, Decision Support System, Machine Learning.

## OPEN SOURCE PROJECTS

<https://github.com/wateraccounting/IHEWAwapor>

<https://github.com/wateraccounting/IHEWAcollect>

<https://github.com/wateraccounting/IHEWAdataanalysis>

<https://github.com/wateraccounting/IHEWAreport>

<https://github.com/wateraccounting/IHEWAsandard>