Saeid Aminjafari

Ph.D. in Physical Geography

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About Me

My organizational skills are reflected in my flexibility. I find it easy to adjust and can handle changes, even quick and unforeseen ones. In addition to this, I want one foot in the present and the other in the future and am able to set visions and targets. I have never regretted being ambitious and driven as a person. Since I am self-disciplined, I do not fear receiving challenges and I rather like to succeed with things that are a bit "impossible". This enables me to learn new technologies rather quickly. I adopted this flexibility to learn and enjoy new areas while working with and analysing satellite data which requires constantly learning new software, models, and technologies due to rapid advances in this field. I naturally have confidence in others and make them feel that I trust them. With this skill, I always received positive feedback from master's and PhD students whom I mentored or taught courses in their program. This skill is valuable in projects with several collaborators where it is important to work as a team to be able to deliver a final product.

Professional Experience

Ph.D. in Physical Geography

Department of Physical Geography, Stockholm University, Sweden.

During my PhD employment, I gained valuable interpersonal skills through various teaching and mentoring responsibilities. I also learned how to develop my own ideas and work independently and at the same could expand my network and collaborate with people in my and team and across other research institutions. Other important skill was time management and organizational skills which helped me to deliver satisfactory outcome within the required timeframe.

I used Earth Observations to understand changes in water resources (lakes, rivers, and wetlands). I quantify changes in water levels, water extent, and, water storage.

2019 - 2023

I answer environmental questions regarding these changes:

- Why are they changing?
- What is the main driver?
- How to differentiate the impact of humans, climate change, and their compound effect on water resources?

I use Radar altimetry, InSAR, satellite optical images, hydroclimatic data, and machine learning to answer these questions.

I also taught hydrology courses (such as advanced hydrology and Water and Land Risk Assessment) and mentored Ph.D. and master's students.

Skills: Project Management . Communication . organizational skills . Goal-oriented . Analytical . Team player . Fund raising . Hydrology · Remote Sensing · Geospatial Data

analysis \cdot Geographic Information Systems (GIS) \cdot Hydrogeodesy \cdot InSAR \cdot Geodesy \cdot Altimetry \cdot SAR \cdot Python & MATLAB programming \cdot Machine Learning

Geophysical marine surveyor, data processor (multibeam echosounder), and cartographer at SEA WORK SURVEY (SWS) EST, Tehran, Iran.

My responsibilities were communication with the client on the procedure in the beginning of the project, at the end of each day, and at the end of project. I was also responsible for communication within the group to ensure proper daily deployment of the equipment and project setup.

- Geophysical Surveying
- Multibeam echosounder data processing
- Sea bottom mapping and cartography
- Navigating drilling rigs
- Debris removal
- Writing Daily Progress Reports (DPRs)
- Writing industry proposals

Skills: Qimera · QINSy · Geophysical Surveys · offshore · Multibeam Echosounder Data Processing · AutoCAD

Researcher and instructor at Hydrography and Tidal Affairs, National Cartographic Centre of Iran (NCC).

I had research responsibilities and communication of the outcomes within the group. I had to deliver the requested results within predefined deadlines.

2015 - 2017

2018 - 2019

- Tidal modeling and oceanography
- Satellite altimetry
- InSAR

Skills: Satellite Altimetry · InSAR · Tidal modeling · Oceanography

Education & Research

Ph.D. in Hydro-Geodesy

Department of Physical Geography, Stockholm University, Sweden.

- I used Landsat images and maximum likelihood classification to quantify water occurrence and its changes in the Selenga River Delta. I used hydroclimatic data such as runoff, temperature, suspended sediment concentration, and lake water level to understand the drivers of the change in surface water occurrence.
- I developed the InSAR methodology to quantify water levels in Swedish lakes.

2019 - 2023

- I studied changes in a large set of lakes in Sweden and answered the questions regarding those changes and their drivers. I assessed the impact of human regulation (such as damming for hydropower, mining, irrigation, and transportation canals) on changes in lake water levels. this is the first comprehensive study on Swedish lakes.

Skills: Hydrology \cdot Remote Sensing \cdot Earth Science \cdot Geographic Information Systems (GIS) \cdot Hydrogeodesy \cdot InSAR \cdot Altimetry \cdot SAR \cdot Python & MATLAB programming \cdot Machine Learning

M.Sc. in Marine Geodesy

School of Surveying and Geospatial Engineering, University of Tehran, Iran.

2011 - 2014

- Tidal modelling
- Advanced Global Positioning System

- Monitoring embankment dam deformation with InSAR

Skills: Remote Sensing · Geographic Information Systems (GIS) · InSAR · MATLAB & Python programming Languages · Hydrography

2006 - 2010

B.Sc. in Geomatics Tafresh University, Tafresh, Iran.

Teaching & Supervision

Advanced Hydrology 7.5 credits (Stockholm University, during PhD employment Teacher assistant in remote sensing of hydrology. In this module, I taught students how use radar remote sensing to understand hydrologic connectivity and water level change	v to
Water Management and Pollution, 15 credits (Stockholm University, during PhD	
employment)	
Teacher assistant in optimization. In this module, students learned how to model the m	ost
efficient way to mitigate pollutants' flow in a basin. I used the Pyomo model in this co	ırse.
Co-supervision of two Master's students in remote sensing of hydrology (Stockho	m
2021 - 2022 University, during PhD employment)	
Tellus I – Physical Geography, 15 credits (Stockholm University, during PhD	
employment)	
2019 - 2021 The course deals with hydrology, mass movements, rivers and flooding, oceans, coast	ines,
groundwater, the atmosphere and climate, arid regions, geomorphology, Quaternary	
geology, and global changes.	

Relevant Training & Conferences

7071	Pedagogical training: "Professional development course 1, Teaching and Learning" 7.5
	credits (Centre for the Advancement of University Teaching, Stockholm University)
/11/1	Geo-computation and machine learning for environmental applications, 7.5 credits (Bolin
	Centre, Stockholm University)

Board member

I was a member of the PhD council in 2020 at Stockholm University. My responsibilities were informing students about the latest decisions made by the department board and informing the department board about the needs of the students. In addition, I organized social events and served as the treasurer for handling expenses and receiving funding.

Languages

English (C1), Persian (native), Swedish (B1), Arabic (B1)

IT skills

MS Office, Zoom, Python and MATLAB programming languages, ArcMap, ArcGIS Pro, Google Earth Engine, Qimera, QINSy, AutoCAD

References

I will gladly send my references upon request.