

# Sedigheh Mousavipour Resume



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## About me:

I am currently PhD student in Environmental studies at Victoria university of Wellington. I have around 13 years of experience in both Environment and Geographic Information System (GIS). In fact, working within multidisciplinary teams and my open and curious personality enabled me to lead many environmental projects and obtain sufficient skill as a spatial analyst too. My strong passion for GIS inspired me to enhance my knowledge in this field, and in order to this, I attended in a Python course, moreover, I am self-studying in using Python in ArcGIS and I am going to exert my skills and knowledge in practice in a rewarding job.

## Work experience:

✚ Mahab Tadbir Delta, Consulting Engineers Company, Tehran, Iran. Dec/2011-Aug/2019  
Spatial analyst and Environmental Technical Expert

### Responsibilities:

As a GIS specialist and Environmental Expert, I worked within multidisciplinary teams of experts in multiple projects, and I had a wide range of responsibilities to help them such as:

- Managing field surveys and investigations to collect ecological and socio-economic data for building the requisite layers and GIS databases. This duty was included in assist with GPS data collection and post-processing for high accuracy data specifications as well as assist in the creation and updating of new and existing GIS maps and map layers and GPS data edition and representation using ArcGIS in support of field surveys.
- Involving in participatory GIS (PGIS) projects. I was responsible to represent peoples' spatial knowledge in the forms of virtual maps. Moreover, combining these Scio-cultural maps and land use preferences with other physical layers effectively contributed to land use planning outcomes in order to enhance locals' capacity in participating in decision making process.
- Identifying, classifying and assessing of ecosystem services (Biophysical and social values), estimating environmental damage cost, detecting ecosystem changes over time periods and mapping ecosystem services by GIS software.
- Analysing environmental sensitivity using GIS based multi parameter Environmental Sensitivity Index (ESI) maps.
- I have been coworker in monitoring and evaluating of rehabilitation of forest landscapes and degraded land project.
- Preparing management programs for protected areas.
- Working on a wide range of environmental projects locally, nationally, and internationally as an environmental expert.

### Highlighted Projects:

- ✓ Ecosystem goods and services valuation of Nyband wetland.( Client: Department of Environment - Iran),
- ✓ Estimating the environmental damage by illegal construction in Khojir and Sorkhe hesar National Park.( Client: Department of Environment - Iran),

- ✓ Ecosystem goods and services valuation of Central Alborz Protected area.(Client: Department of Environment - Iran),
- ✓ Estimating the cost of environmental damage from dam construction and inter basin water transfer Bakhtegan International Wetland and national Park. (Client: Department of Environment - Iran),
- ✓ Monitoring and Evaluation of RFLDL project in Iran (Client: Food and Agriculture Organization (FAO)),
- ✓ Sorkh abad protected area management plan.(Client: Department of Environment - Iran),
- ✓ Kolah ghazi Wildlife Refuge & Protected area management plan.(Client: Department of Environment - Iran),
- ✓ Environmental sensitivity analysis of Yaran oil field in Iran using GIS based Environmental sensitivity Index (ESI) maps(Client: Ministry of Petroleum- Iran),
- ✓ Environmental impact assessment and sensitivity analysis for feasibility study of road construction through the Miankale wetland in north of Iran(Client: Department of Environment - Iran),
- ✓ Environmental impact assessment of Chabahar-Zahedan Railway, (Client: Ministry of Roads and Urban Development - Iran),
- ✓ Environmental education needs assessment for the housewives - case study: Region 15 of Tehran Council. (Environmental Science Research Institute (ESRI)).

✚ Ideh Pardazan Tosseh, Consulting Engineers Company, Tehran, Iran.  
Spatial analysis, Natural Resource and Environment Expert

Feb/2010-Dec/2011

**Responsibilities:**

Over this period of my work life, I got deeply involved in GIS works, and in fact I worked as a GIS analysis as well as Environment Expert in several projects. My responsibilities were:

- Preparing methodology and detailed initial plan of work for carrying out environmental projects,
- Working with project teams to define database requirements and help develop specifications,
- Building and maintaining GIS databases,
- Using GIS software to analyze the spatial and non-spatial information,
- Creating thematic maps for environmental and educational purposes.
- Preparing management programs for protected areas. (Preparing basic layers and zoning).

**Highlighted Projects:**

- ✓ Environmental impact assessment of Greenhouses development in several regions of Iran. (Client: Ministry of Agriculture),
- ✓ Environmental impact assessment of Tourism development in villages. (Client: Cultural Heritage, Handicrafts and Tourism Organization of Iran),
- ✓ Marghon Waterfall Protected Area management plan. (Client: Department of Environment - Iran),
- ✓ Parvar Protected Area management plan. (Client: Department of Environment - Iran).

✚ Rooyan, Consulting Engineers Company, Tehran, Iran.  
Natural Resource and Environmental Technical Expert

Apr/2008-Feb/2010

**Responsibilities:**

- In this role, I worked as an environmental expert in Environmental Impact Assessment (EIA) projects. Over this period, I acquired a great knowledge on identifying, measuring and predicting impacts of various projects on environment as well as Digital Environmental Impact Assessments. I prepared different scenarios by GIS maps with each stage of the EIA process that could help decision makers determine sensitive areas based on multi Scio-ecological parameters.

- Furthermore, I was responsible for zoning of protected areas using GIS based layers, preparing management plan for defined zones in different ecosystems (Littoral zone Forest, Mountain...), estimating the carrying capacity of tourism and Identification environment impacts of offered projects in these zones.

#### **Highlighted Projects:**

- ✓ Environmental Impact Assessment (EIA) of Qeshm- Bandar Abbas oil pipeline project(Client: Ministry of Petroleum- Iran),
- ✓ Environmental Impact Assessment (EIA)of Neka- Jask oil pipeline project(Client: Ministry of Petroleum- Iran),
- ✓ Lashghardar Protected Area management plan. (Client: Department of Environment - Iran),
- ✓ Kanghormaz Protected Area management plan. (Client: Department of Environment - Iran).

✚ Amayesh Mantaghei Falat, Consulting Engineers Company, Tehran, Iran. Aug/2006-Apr/2008  
Land use planning, Natural Resource and Environment coordinator

#### **Responsibilities:**

I involved in integrated catchment management and land use planning projects. My duties were gathering, updating, analyzing, and managing physical and ecological characteristics and GIS data of the project for other team members as well as coordinator between environment and GIS departments. Also, I was responsible for

- Presenting information and GIS data to clients and stakeholders in verbal or written format.
- Interaction and coordination with the experts of various sectors and arranging meetings.
- Providing integrated timetable for projects in order to finish the project in time with a reasonable ration of project benefit/cost.

#### **Academic Education:**

- **PhD** student in Environmental studies, Victoria University of Wellington, New Zealand (2019)
- **M.Sc.** in Natural resources Engineering- Management of desert regions, (2003-2006) Shiraz University, Shiraz, Iran.
- **B.Sc.** in Agriculture Engineering- Agronomy and Plant Breeding(1999-2002) The University of Mohaghegh Ardebili, Ardebil, Iran.

#### **Skills:**

##### **Technical Skills:**

- Carrying out participatory GIS (PGIS) projects,
- Assessing of ecosystem services and mapping them by GIS,
- Environmental and social impact assessment for plans,
- Designing environmental monitoring/management action plans,
- Site investigations including ecological and socio-economic data collecting for building the GIS databases,
- Using GIS software to analyze the spatial and non-spatial information,
- Creating thematic maps by GIS related software such as ArcGIS and QGIS.

##### **Consultation and teamwork:**

Highly supportive and well-mannered in interpersonal relations and in teamwork.

Public participation and stakeholder consultation including running/facilitating group meetings

##### **Computer Skills:**

MS office programs (Word, Excel, and PowerPoint)

GIS (ArcView, ArcGIS, Quantum GIS, R2V)

Python (Pycharm)-Basic

Decision-Making Software (Expert Choice)

Statistics Analysis Software (Minitab) -Basic