

## **1. Education**

### **BACHELOR'S DEGREE**

College of Environment, Iran: *Natural Resources Engineering-Environment*  
September 2009-September 2013  
Average of exam marks: 17.09/20  
Final Degree Mark: 17.09/20

### **MASTER'S DEGREE**

College of Environment, Iran: *Natural Resources Engineering, Environment, Environmental Pollution*  
September 2014- January 2017  
Average of exam marks: 18.10/20  
Final Degree Mark: 18.10/20

### **MASTER'S DEGREE**

University of Genova, Italy: *Environmental Engineering*  
September 2019- July 2022  
Average of exam marks: 97.492/110  
Final Degree Mark: 102/110

### **PhD**

PhD student in *Dottorato Nazionale in Osservazione delle Terra*  
Sapienza Università di Roma, Dipartimento di Ingegneria civile, edile e ambientale  
November 2022 until now

## **2. Scholarships, research grants (and similar) received**

Providing institution: Universal Scientific Education and Research Network (USERN)  
Competitive selection? YES  
November 2019  
Awarded the USERN international congress 2019, Budapest, Hungary for poster presentation.

## **3. Research activity carried out during the training**

- Part-Time Research Assistant  
Institution / Laboratory where the activity took place: ECO Institute of Environmental Science and Technology.  
Competitive selection? YES  
October 2014-May 2017

## **4. Attendance of courses of excellence, advanced courses, Schools of Advanced University Studies**

**Institution where the course took place:** Islamic Azad University, West Tehran Branch  
**Workshop:** Habitat suitability modeling using R, Dr. Babak Naimi  
March 2012

**Institution where the course took place:** College of Engineering, University of Tehran  
**Workshop:** Modelling land use change and assessing the impact of land use change on ecosystem services, application of Land Transformation Models, Dr. Amin Tayyebi

- Spatial Decision support system on the web for strategic agricultural land use policy development
- Big data and land use change

26<sup>th</sup>, 27<sup>th</sup>, and 28<sup>th</sup> of August 2015

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## 5. Publications

- **Authors:** Behzad Rayegani, Susan Barati, Hamid Goshtasb, Saba Gachpaz, Javad Ramezani, Hamid Sarkheil  
**Paper title:** Sand and dust storm sources identification: A remote sensing approach  
Journal of *Ecological indicators*, May 2020, volume 112

## 6. Professional Experience

### **Intern**

GTER innovazione in geomatica, GNSS and GIS 09/2021 – 01/2022  
Genova, Italy

- Introduction to editing methods in Open-Source GIS environment

### **Teacher assistant in geographical information systems in environment and advanced remote sensing courses**

09/2016 – 06/2017  
Karaj-Iran

- Assisting in student's projects
- Collaborating with the teacher during practical courses
- Grading tests, quizzes, and students' projects

## 7. Conferences

- **GEODays IT2023**, 11<sup>th</sup> Congress of the Italian Society for Remote sensing (AIT) Instructions, 2023  
Presentation: *Investigating the Correlation Between Sentinel-2 Multi Spectral Images and Ground Based Field Measurements of Soil Moisture (Case Study: Mendatica, Liguria, Italy)*

## 8. Skills

### **Spatial modeling analysis**

(GIS-based analysis)  
QGIS

ERDAS IMAGINE

Arc GIS

IDRISI

eCognition

Google Earth Engine

(Species

### **Data analysis and visualization in R**

Ability to work with data, critical thinking skills,  
understanding metadata and data management

### **Statistical analysis**

SPSS and R environment

## 9. Research interest

- Spatio-temporal Analysis
- Spatial Modeling
- Geospatial Big Data
- Climate Change
- Remote Sensing for Hazard Monitoring
- Sustainable Development

### **Coding**

Python

R

JavaScript

### **Hydraulic modeling**

Hydraulic modeling using HEC-RAS

### **Habitat suitability modeling**

### **distribution modeling)**

Using MaxEnt

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