

curriculum vitae

PERSONAL INFORMATION

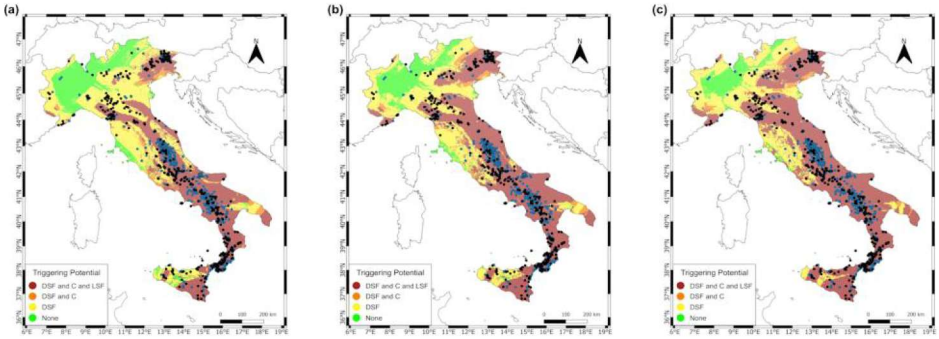
Surname	**Azhideh**
Name	**Sina**
Address	[redacted]
Telephone	
E-mail	
Nationality	
Date of birth	

Education and training

• Date (from – to)	2024-2027 **Currently**
• Name and type of organisation providing education and training	University of Genoa, Italy
Duration of the program of study	3 years
• Title of qualification awarded	PhD student in Science and Technologies for the Earth and Environment (DISTAV)
• Date (from – to)	2021-2024
• Name and type of organisation providing education and training	University of Genoa, Italy
Duration of the program of study	2 years
• Principal subjects/occupational skills covered	Principal subjects: Seismic Hazard and Risk Landslide Hazard Multi-Hazard Impact and Risk Assessment Integrated Risk Assessment and Management Remote Sensing of Natural Disasters Occupational skills covered: QGIS (Geographic Information System) Python Programming Machine Learning
• Title of qualification awarded	Master of Science in Engineering for Natural Risk Management
Final mark obtained	110+/110

• Date (from – to)		2011-2015
• Name and type of organisation providing education and training		Bu-Ali Sina University, Iran
Duration of the program of study		4 Years
• Principal subjects/occupational skills covered		Principal subjects: Engineering Geology Soil Mechanics Environmental Engineering Structural Analysis Strength of Materials Statics Dynamics Occupational skills covered: AutoCAD ETABS Microsoft Office
• Title of qualification awarded		Bachelor of Science in Civil Engineering
Final mark obtained		15.34/20

graduation thesis (master thesis)

Title		Earthquake-Induce Landslide Triggering Maps for Italy
Language		English
Supervisor		Professor Simone Barani
Thesis Summary		In this study, I defined screening maps for Italy that classify sites based on their potential for triggering landslides. To this end, I analyzed seismic hazard maps and hazard disaggregation results on a national scale considering four spectral periods (0.01 s, 0.2 s, 0.5 s, and 1.0 s) and three return periods (475, 975, and 2475 years). First, joint distributions of magnitude (M) and distance (R) from hazard disaggregation were analyzed by means of an innovative approach based on image processing techniques to find all modal scenarios contributing to the hazard. In order to obtain the M-R scenarios controlling the triggering of earthquake-induced landslides at any computation node, mean and modal M-R pairs were compared to empirical curves defining the M-R bounds associated with landslide triggering. Three types of landslides were considered (i.e., disrupted slides and falls, coherent slides, and lateral spreads and flows). As a result, screening maps for all of Italy showing the potential for triggering landslides based on the level of seismic hazard were obtained (Figure1).  Figure 1. Maps of seismic landslide triggering corresponding to different return periods: (a) a 475-year, (b) a 975-year, and (c) a 2475-year period. DSF: disrupted slides and falls; C: coherent slides; LSF: lateral spreads and flows. Historical landslide events in Italy reported by the CEDIT (blue dots) and CFTI5Med (black dots) catalogs are superimposed.

Publications and Conferences

Author(s) and title		Author(s): Sina Azhideh, Simone Barani, Gabriele Ferretti, Matteo Taroni, Marco Massa Title: An Advanced Statistical Method to Unravel the Temporal Evolution of *b*-Value
Language		English
Publication place		**Seismological Research letters, SRL**
Date of publication		15/05/2025
Author(s) and title		Author(s): Sina Azhideh, Simone Barani, Gabriele Ferretti, Matteo Taroni, Marina Resta, Marco Massa Title: Optimization of rolling window approach to analyze earthquake time series and identify possible precursors
Language		English
Publication place		**Copernicus Meetings, EGU25**
Date of publication		15/05/2025
Author(s) and title		Author(s): Sina Azhideh, Simone Barani, Gabriele Ferretti, and Davide Scafidi Title: Earthquake-Induced Landslides in Italy: Evaluation of the Triggering Potential Based on Seismic Hazard
Language		English
Publication place		**Applied Sciences, MDPI Journal**
Date of publication		18/04/2024
Author(s) and title		Author(s): Simone Barani, Sina Azhideh, Gabriele Ferretti, and Davide Scafidi Title: Evaluation of the triggering potential of seismic landslides in Italy
Language		English
Publication place		**Copernicus Meetings, EGU24**
Date of publication		19/04/2024
Author(s) and title		Author(s): Sina Azhideh, Simone Barani, Gabriele Ferretti, and Davide Scafidi Title: Towards an earthquake-induced landslide triggering map for Italy
Language		English
Publication place		**GNGTS Conference**
Date of publication		16/02/2024

certifications

Python Programming Language		an online course authorized by University of Michigan and offered through Coursera.
Machine Learning		an online course authorized by University of London and offered through Coursera.
Disaster Risk Management		Online Training Series, Sep to Dec2022, Coventry University, CONRIS and DRMKC of the

		EuropeanCommission.

Work experience, stages, studies abroad

• Date (from – to)		From April 2015 to November 2015
• Name and address of firm/university		Water and Wastewater Company of Hamedan Province\ Hamedan (Iran)
• Type of employment		Internship
• Main activities and responsibilities		The implementation of wastewater pipelines
• Date (from – to)		From June 2016 to December 2016
• Name and address of firm/university		Sepasad Group, Tehran (Iran)
• Type of employment		Project Engineer
• Main activities and responsibilities		The construction of Tehran Metro Line 7 (IRAN) Specifically, utilizing excavation stabilization techniques such as nailing and anchorage methods.

Personal skills and competences

Mother tongue		**Persian**

Other language(s)

		English
• reading		Excellent
• writing		Excellent
• speaking		Excellent
		Italian
• reading		Elementary
• writing		Elementary
• speaking		Elementary

Social skills and competences		I have extensive experience living and working with diverse groups of people, particularly in the field of civil engineering where I collaborated with workers, employees, and engineers on various projects. During my research activities for my thesis and article, I worked closely with professors, honing my ability to communicate complex scientific concepts effectively. Additionally, I have consistently demonstrated active listening and teamwork skills, both in professional settings and by helping struggling classmates. My multicultural work environment has further enhanced my social adaptability and collaboration capabilities.

Organisational skills and competences		I have honed my organizational skills through various roles in civil engineering projects. As an intern in the implementation of wastewater pipelines for the Water and Wastewater Company of Hamedan Province in Iran, I gained experience in coordinating tasks and managing timelines. Later, as a project engineer for the construction of Tehran Metro Line 7 with Sepasad Group in Tehran, I was responsible for utilizing excavation stabilization techniques such as nailing and anchorage methods. These roles required effective management of teams, resources, and project timelines. Additionally, my research activities for my thesis and article involved coordinating with professors, managing complex tasks, and presenting findings systematically. My ability to help classmates and quickly learn new concepts further demonstrates my organizational competence and effective project coordination skills.

Technical skills and competences		Python Programming Language Machine learning (beginner) QGIS AutoCAD

		ETABS Microsoft Office

Artistic skills and competences		I have been playing guitar (electric, acoustic, and classical) since I was 16 years old. Over the years, I have developed a strong proficiency in guitar playing. Additionally, I played the piano for one year, though my skills in piano are not as advanced as my guitar skills. I have experience performing with bands and participating in live performances, which has helped me cultivate my musical abilities and stage presence. Moreover, I have a six-month experience teaching music at a musical institute.