

# Malik Adam Alddoum Adam

PhD student

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## 🎓 Education

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**PhD in Physics, Earth Science-University of Messina** 01/2024 – Present  
The research topic is Physical modeling of the lithospheric structure in the  
Mediterranean region. Messina/Italy

**Master in Geophysical Science for Seismic Risk,** 10/2021 – 12/2023  
*Earth Science/Messina with (110/110 cum laude)* Messina/Italy  
Address: Piazza Pugliatti, 1, 98100 Messina (Italy).

**Bachelor in Geology, Earth Science/ Khartoum** 09/2005 – 09/2010  
Address: Aljamhurya Street, 249 Khartoum (Sudan). Khartoum/Sudan

## 📖 Publications

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**Seismic attenuation and scattering tomography reveal lithospheric complexity and fluid signatures across the Southern Apennines – Northern Calabrian boundary (South Italy),** 08/03/2026  
*Geophysical Journal International (accepted for publication).*  
M. Adam Alddoum Adam, C. Totaro, D. Presti, S. Scolaro, L. De Siena.

**Subsurface Imaging in Urban Environments: Insights from Multi-Method Geophysical Surveys in the historical center of Messina (southern Italy),** 28/02/2026  
*Engineering Geology (under review).*  
M. Adam Alddoum Adam, S. D'Amico, D. De Domenico, F. Panzera, D. Presti, S. Scolaro, C. Totaro.

## 🏠 Conferences

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**Investigating the Seismological Signatures of the Northern Edge of the Ionian Subduction Slab (South Italy),** 06/2024 – 06/2024  
*Interuniversity Center for 3D Seismotectonic with territorial applications (CRUST).*  
M.Adam and C.Totaro Chieti, Italy

**Exploring seismic attenuation anomalies and fluid dynamics in the southern appennines- calabrian arc border (Italy),** 09/2024 – 09/2024  
*European Seismological Commission general assembly (ESC).*  
M.Adam, C.Totaro, D.Presti Corfu, grecce

**Exploring Northern Calabria Region through Seismic Attenuation Tomography and Complementary Geophysical Data,** 02/2025 – 02/2025  
*National group for Solid Earth Geophysics (GNGTS) 43rd.*  
M. Adam, L. De Siena, D. Presti, S. Scolaro, C. Totaro Bologna, Italy

**Seismic Attenuation Tomography: New Insights into Fluid Dynamics in the Northern Calabrian Region (Italy),** 04/2025 – 05/2025  
Vienna, Austria  
*European Geosciences Union (EGU) General Assembly.*  
M. Adam, L. De Siena, D. Presti, S. Scolaro, C. Totaro

**Subsurface Imaging in Urban Environments: Insights from Multi-Method Geophysical Surveys in the Historical Center of Messina (Southern Italy),** 10/2025 – 10/2025  
Orosei, Italy  
*From Deep Space to Deep Earth: The Experimental Network In Sardinia.*  
M. Adam S. D'Amico, D. De Domenico, F. Panzera, D. Presti, S. Scolaro, C. Totaro

**Geophysical Investigation of Urban Subsurface in the Historical Center of Messina, Southern Italy,** 02/2026 – 02/2026  
Udine, Italy  
*National Group for Solid Earth Geophysics (GNGTS), 44th National Conference.*  
M. Adam S. D'Amico, D. De Domenico, F. Panzera, D. Presti, S. Scolaro, C. Totaro

## Organisations

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**CRUST: Centro Interuniversitario per l'Analisi Sismotettonica tridimensionale,** 04/2024 – Present  
member. Italy

## Other experiences in the field of Geophysics

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### **RAI SCUOLA**

Taking measurements in front of “il Duomo di Messina” using the Tromino seismometer with the collaboration of the University of Malta, the University of Catania, and the University of Palermo under the supervision of Prof. Sebastiano D'Amico.

### **Applied Geophysics**

MASW (Multi-Channel Analysis of Surface Waves) and HVSR (Horizontal-to Vertical spectra ratio), and ESAC (extended spatial autocorrelation) measurements at Messina city center and the Cathedral of Messina under the supervision Prof. ssa. Cristina Totaro and Dott. ssa. Domenica.

## Skills

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### **Ip2win: It is a program for 1D automatic and manual interpretation of Vertical Electrical Sounding curves.**

Curve Fitting, Modeling, Visualization, and 1D Interpretation.

### **Seismogram2K**

Analyzing and setting the arrival times of the seismic waves and coda waves.

### **Grilla**

Analysing the HVSR curves, and make smothing and distinguishing between the natural and anthropogenic curves.

### **GIS (Geographic information system using ArcGis and QGIS).**

Georeferencing the maps, Spatial Analysis, Geoprocessing, and Remote sensing.

### **PYGMT (Python + Generic Mapping System)**

make process data and automate the codes, generate publication-quality illustrations, automate workflows.

### **Geopsy**

HVSR Calculation, Spectral Analysis, Visualization, and Site Characterization.

## Professional Experience

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### **Linguistic Mediator, Court of Messina**

- Facilitating successful communication.
- Professional interpreting between Italian, English, and Arabic (courtroom/legal settings).

07/2023 – 02/2024  
Messina/Italy

**Spanish Language Course Teacher, Comboni College**

- Instruct students in the Spanish language and culture.

01/2021 – 09/2021

Khartoum - Sudan

**Italian Teacher, Comboni College**

- Taught Italian language and culture courses to undergraduate students at the college level.
- Designed and delivered lessons in Italian grammar, conversation, and literature.
- Assessed student progress and provided academic support.

01/2019 – 06/2019

Khartoum-Sudan

**Short Courses Coordinator, Comboni College**

- Registration and give information for students.
- Prepare and maintain the class schedules for teachers.

01//2013 – 01/2017

Khartoum/Sudan

** Languages**

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**Arabic**

Mother Tongue

**English**

C1

**Italian**

C1

**Spanish**

B1

** Certificates**

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**Italian language CELI**

B2

**Spanish language (Instituto Cervantes)**

B1

**English (IELTS)**

B2