

MUSTAPHA BENZIANE

A final year PhD. student, interested in computational seismology, particularly, Full waveform inversion, inverse problems, numerical optimization and uncertainty quantification. I am currently actively seeking a postdoc position.



RESEARCH EXPERIENCE

2025
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2022

PhD. Project

Université Grenoble Alpes

📍 Grenoble, France

- Project: Receiver extensions strategies for time-domain FWI
 - Implementing various receiver extension strategies, and integration into the SEISCOPE FWI engine TOYxDAC_TIME
 - Adding a global and stochastic optimization library in Fortran into the SEISCOPE TOOLBOX



TEACHING EXPERIENCE

2025
|
2022

Teaching assistant

Université Grenoble Alpes

📍 Grenoble, France

- Gravimetry, Geodesy and geothermy for STPE L2:
 - Practicals and field work, 52h in 2022-2023
 - Field work, 14h in 2023-2024
- Programming and development environments
 - Practicals, 18h in 2024-2025



INDUSTRY EXPERIENCE

2020
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2017

Geophysical Engineer

GeoEXplo

📍 Algiers, Algeria

- Geophysical data acquisition, processing and interpretation:
 - Refraction seismic
 - Cross-hole and down-hole seismic
 - MASW and ReMi
 - Electrical Resistivity Tomography (ERT)
 - Vertical Electrical Sounding (VES)
 - Ground Penetrating Radar (GPR)
 - Well logging (namely, resistivity, SP, gamma ray, caliper, acoustic and optical and acoustic borehole imaging)
- ALT and MSI well logging equipment and software (WellCAD)
 - Training new and existing clients
 - Technical support in North Africa (Mainly, Morocco, Algeria and Tunisia)
 - Sales of equipment and software



EDUCATION

2025
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2022

PhD., Geophysics

Université Grenoble Alpes

📍 Grenoble, France

- Subject: Receiver based extension strategies for time-domain 3D full waveform inversion.

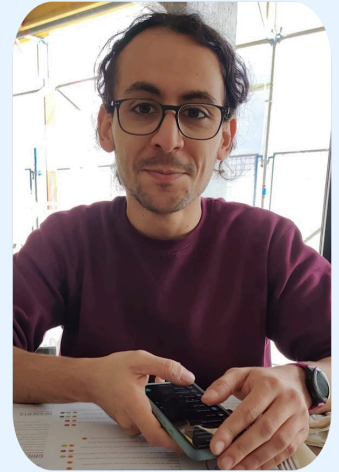
2022
|
2020

Masters of Geophysics

Université Grenoble Alpes

📍 Grenoble, France

- Thesis: Receiver extension using a time-dependent relocalization strategy



📄 Download a PDF of this CV

CONTACT

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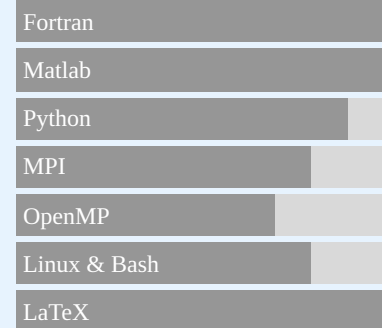
📄 [Mustapha-Benziane](#)

🔗 [mbenziane.fr](#)

in [musbenziane](#)

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COMPUTER SKILLS



LANGUAGES



2016
|
2014

Masters of petroleum Geophysics
Université de Boumerdes

📍 Boumerdes, Algeria

- Thesis: Structural seismic interpretation using of the aptien reservoir in the Guelma region

2016
|
2011

Bachelor of Geophysics
Université de Boumerdes

📍 Boumerdes, Algeria

- Project: 3D land seismic data acquisition (field internship with the national geophysical surveying company ENAGEO)



CONFERENCE PROCEEDINGS

2024

Benziane, M., Brossier, R., Métivier, L. and Sambolian, S. 2024 Full-waveform inversion with time-dependent receiver-extension: An efficient inner loop optimization. In: Fourth International Meeting For Applied Geoscience & Energy. 1038–1042

2023

Benziane, M., Brossier, R. and Métivier, L. 2023 Receiver extension strategy using a time-dependent relocalization approach for time-domain FWI. In: 84th EAGE Annual Conference & Exhibition, 2023. European Association of Geoscientists & Engineers, 1–5.



MEMBERSHIPS

Current
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2021

EAGE member

Current
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2014

SEG member

2021
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2020

SEG UGA student chapter - vice president

2016
|
2014

SEG UMBB student chapter - member



ACTIVITIES

2024
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2023

PhD. student delegate
ISTerre

📍 Grenoble, France

- Organizing the 2024 PhD. students congress in Chambéry
- Organizing various activities for the lab PhD students