

SALIHA AMOURA

Dr. Saliha AMOURA, geophysicist, highly qualified and research-minded, Team player, enjoys working closely with others. Looking for a Post Doc or a research position project that will expand my skill set as a researcher in the field of Geoscience.



PERSONAL

- Name**
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- Gender**
Female
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LANGUAGES

- Arabic ★★★★★
- English ★★☆☆
- French ★★☆☆
- Portuguese ★☆☆☆

INTERESTS

- Research and investigation
- Travel
- Cooking
- Sport
- Bibliophile



EDUCATION AND QUALIFICATIONS

- Feb 2017 - Oct 2021 **Ph.D. in Geophysics**
University of Science and Technologie (USTHB), Algiers
- Sep 2015 - Jul 2016 **Master Degree in Reservoir Engineering**
University of Science and Technologie (USTHB), Algiers
- Sep 2011 - Jul 2014 **Bachelor of Science: Material Science specialized in Geophysics**
University of Science and Technologie (USTHB), Algiers
- Sep 2012 - Jul 2013 **Data processing**
UFC-USTHB, Algiers
- Sep 2008 - Jul 2011 **High School of Science**
Nasri Ramdan High School, Jijel
- Sep 2021 - Jul 2021



WORK EXPERIENCE

- Feb 2017 - Oct 2021 **Research fellow** and assistant professor of Geophysics
University of Science and Technologie (USTHB), Algiers
Non-linear and non-stationary analysis of Geophysical signals
 - The exploitation of geophysical data (seismic, logging, and others), using the full range of methods for their non-linear and non-stationary analysis (multi- and fractal analysis, EMD, EEMD, and CEEMD decompositions), and applied Geostatistics.
 - Petrophysical Skills: petrophysical data; integration of multiple data, Borehole Image data Acoustics; Saturation Height modelling and interpretation; Well Log Repair and Synthetic Log creation.
 - Borehole Acoustic processing and Analysis, physical signals using signal processing tools and Machine learning models.
- Jan 2020 - Jan 2021 **Research collaboration and innovation**
NOVA (FCT) University, Portugal
Goal: Applying univariate, bivariate, and multivariate statistical algorithms (PCA, Clustering analysis) on geophysical signals to extract meaningful information.
- Sep 2021 - Jul 2021 **Algerian Grant within the framework of the Exceptional National Program (PNE)**
The Department of Earth Sciences (DCT) of the NOVA School of Science and Technology, Caparica, Portugal
- Feb 2019 - Jul 2019 **Erasmus + scholarship International credit mobility**
The Department of Earth Sciences (DCT) of the NOVA School of Science and Technology, Caparica, Portugal

○	Nov 2020 - Nov 2020	<p>AAPG intensive training AAGP CUSC AAPG AUSC, AAPG MUSC (AAPG UNION)</p> <p>The training include 12 session technical and non-technical for three weeks in petroleum geoscience</p>
○	Jul 2020 - Aug 2020	<p>AAF summer university Algerian American Foundation for Culture, Education, Science and Technology (AAF)</p> <ul style="list-style-type: none"> • The summer university goes through the Presentation of the sizing tools for thermal and photovoltaic systems. • Photovoltaic solar energy: Applications. • CSP technology: Tracking systems. • Advanced Control Strategies for Renewable Energy Systems: PV, Wind and Fuel Cells. Main loss factors affecting solar PV plants performance and mitigation technologies. Materials for energy storage. • The 3Ds of Energy Transition: Decarbonization, Digitalization, and Decentralization. Energy Mix and sustainable development in Algeria. Introduction to AI and its applications. • Introduction to Solar technologies and PV technology: from cell to panel
○	Jan 2017 - Present	<p>Assistant teatcher University of Science and Technologie (USTHB), Algiers, Algiers</p> <ul style="list-style-type: none"> • Practical work of Geophysics, USTHB. • Algorithms and office automation, USTHB. • Programming with Matlab • Math Teacher, Exellencia Academy. • Physics Teacher, University of Continuing Education, UFC-USTHB.
○	Aug 2017 - Sep 2017	<p>Internship Sonatrach Exploration Division, Boumerdes, Algeria</p> <p>Goal: Interpretation of 2D seismic data</p>
○	Sep 2021 - Jul 2021	<p>Internship Sonatrach DP-RNS, Illizi, Algeria</p> <ul style="list-style-type: none"> • Project of Master Degree: Study of the Performances of gas recycling to increase the condensate recovery rate • Using multiple industry software packages including Interactive Petrophysics (IP), Techlog, and Petrel.
○	Sep 2015 - Sep 2015	<p>Internship The University of Science and Technologie (USTHB), Algiers, Algeria</p> <p>Overview of the geological context geological study, Tipaza</p>
○	Sep 2021 - Jul 2021	<p>Internship LTP-EST Public Works Laboratory, Jijel, Algeria</p> <p>Overview of the geotechnical study of rocks</p>



SKILLS

Matlab, R, Python	★ ★ ★ ★ ★
Signal processing	★ ★ ★ ★ ★
Data analysis, machine learning	★ ★ ★ ★ ★
Programmation	★ ★ ★ ★ ★
Techlog, Petrel, Surfer, ArcGIS, Origine	★ ★ ★ ★ ★
Latex, Microsoft office	★ ★ ★ ★ ★



Publications

1. **Amoura, S.**, Gaci, S., Bounif, M. A., & Boussa, L. (2019). On characterizing heterogeneities from velocity logs using Hölderian regularity analysis: A case study from Algerian tight Devonian reservoirs. *Journal of Applied Geophysics*, 170, 103833.
2. **Amoura, S.**, Gaci, S., Barbosa, S., Farfour, M., & Bounif, M. A. (2021). Investigation of lithological heterogeneities from velocity logs using EMD-Hölder technique combined with multifractal analysis and unsupervised statistical methods. *Journal of Petroleum Science and Engineering* 109588.

Scientific Communications

- **Amoura, S.**, Gaci S., Bounif M.A., 2017. “Non-linear and non-stationary analysis of geophysical signals”. 4th Edition of the Geophysic Doctoral student Congres. Alger, 24 April 2017. FSTGAT -l’USTHB.
- **Amoura, S.**, Gaci S., Bounif M.A., 2018. “Regularity analysis of well logs: A case study from Algerian tight reservoirs”. 2nd international seminar on the exploration and exploitation of unconventional reservoirs. ALGER, December 12-13, 2018
- **Amoura, S.**, Gaci S., Bounif M.A., 2018. “Nonlinear analysis of geophysical signals”. 8th North Africa Petroleum Exhibition and Conference Oran, by NAPEC Young Professional. ORAN, Mars 2018.
- **Amoura, S.**, Gaci S., Bounif M.A., 2018. “Hölderian regularity analysis of diagraphic logs”. 7th Maghrebian Colloquium of Applied Geophysics. ALGER, February 20-22-2018.
- **Amoura, S.**, Bounif M.A., Gaci S., 2021. “Représentation temps-fréquence des données sismologiques à l’aide de la transformée de Hilbert-Huang (HHT) ”. 1er séminaire sur les géologiques en Algérie : pour une meilleure gestion et réduction des risques de catastrophe, Mila. Octobre 18-21-2021.