

Muhammad Nauman Ejaz



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Naumanejaz1996@gmail.com



Houston, USA

I am a highly efficient and capable professional with a purposeful approach to task management. With strong confidence in project assistance and exceptional time management, I thrive in challenging environments. Seeking opportunities to contribute to a high-quality organization's success and reputation

PROFESSIONAL EXPERIENCE

Data Researcher/Data Analyst

June 2022 – June 2024

Metals & Mining Department

S&P Global Islamabad, Pakistan

S&P Global

- To extract, scrutinize and standardize the essential data relevant to the industry of Mining, and providing our clients in the form of a formulated product.
- To provide input and ideas for new collection methods and product improvements related to the covered content sets.
- To review feedback involving their content to help correct errors and establish or refine procedures and processes to improve accuracy.
- Staying up to date on industry trends and reporting standards.
- To troubleshoot problems or issues and provide meaningful feedback to co-workers.

Internship

October 2019 – November 2019

Exploration Department

Oil and Gas Development Company Ltd (OGDCL), Islamabad, Pakistan



- Learning Seismic acquisition and processing parameters that impact the accuracy of interpretation results.
- 2D and 3D seismic interpretation, Horizon Marking and Fault marking/identification on SMT Kingdom and Petrel software packages. These software packages provide a range of tools for data visualization, interpretation, and modeling. They allow the interpreter to visualize seismic data in 2D and 3D, identify and mark horizons and faults, and create geological models.
- Generation of synthetic seismograms, Constructing Time and Depth contour maps and Fault seal analysis to get an idea of the upthrow and downthrow of fault.

Internship

Seismic Monitoring Centre

Pakistan Meteorological Department (PMD), Islamabad, Pakistan

August 2017 – September 2017



- Interpretation of earthquake seismic data of Muzaffarabad region (Pakistan) from 2009 - 2011.
- Picking P & S waves arrival time, calculating S - P wave time difference, Filtering data to remove unnecessary noises, using Scream 4.5 software.
- Calculations for better approximation of the epicenter and analyzing the impact of magnitude based on depth.
- Comparing results to the online data available from USGS website.

EDUCATION

Ph.D. In Geophysics

Aug 2024 – Till Date

Teaching Assistant

University of Houston, Texas

Majors:

- 3D Seismic Exploration I
- Rock Physics
- Seismic Wave & Ray Theory
- Seismic Imaging Fundamentals
- Machine Learning
- Geophysical Data Processing

Proposed Thesis: High-Resolution Probing the Slab temperature at the 410 km Discontinuity Beneath the Sea of Okhotsk

Master of Science in Geophysics (2 Years)

Feb 2020 – Mar 2022

Gold Medalist and Graduated with Distinction (Magna Cum Laude)

Bahria University, Islamabad

Dissertation: Litho-fluid identification & quantification of reservoir using Gassmann fluid substitution and convolutional neural network of Balkassar Area, Upper Indus Basin, Pakistan.

Majors:

- Exploration Geophysics
- Advance Seismic Techniques
- Petrophysical Analysis
- Advance Research Methodology
- 3-D Seismic Techniques
- Basin Analysis
- Advance Sequence Stratigraphy
- Advance Petroleum Geology

***Dissertation:** 2-D Seismic Interpretation, Petrophysical and Fault Seal Analysis of Missa Keswal Area, Upper Indus Basin, Pakistan.*

Majors:

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| • Earthquake Seismology | • Seismic Exploration Techniques |
| • GIS and Computer image processing | • Geophysical Data Processing |
| • Gravity and Magnetic Exploration Technique | • Electrical and Radioactive Exploration Technique |
| • Seismic Stratigraphy | • Petroleum Geology |
| • Petroleum Engineering | • Hydrogeology |

KEY SKILLS AND COMPETENCIES

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|---|--|
| • Complex problem solving | • Excellent communication skills |
| • Teamwork and Leadership experience | • Collaboration talent |
| • Organizational knowledge | • Meticulous |
| • Initiative-taking, adaptive learner, and strong believer in excellence. | • Ability to troubleshoot independently. |
| • Computer proficiency. | • Smart work |

PROJETCS

- Litho-fluid identification & quantification of reservoir using Gassmann fluid substitution and convolutional neural network of Balkassar Area, Upper Indus Basin, Pakistan (MS Dissertation).
- 2-D Seismic Interpretation, Petrophysical and Fault Seal Analysis of Missa Keswal Area, Upper Indus Basin, Pakistan (BS Dissertation).
- Field report on Salt Range Area, focus on the Eastern and Western Salt range area.
- Field report on D-12 Sector of Islamabad.
- Field report on Abbottabad, Balakot and Nathia gali region.

CERTIFICATES & COURSES

- Duolingo English language test. Overall score 135, Production 125 & Conversation 135. (2023)

- Formal training of DSG 10.4 (Decision Space) software from Halliburton, Pakistan (2022).
- Attended lecture on "The value of machine learning in geoscientific prediction" organized by Bahria University Islamabad Pakistan (2022).
- All Pakistan Geo-Scientist Association (APGA) certificate of recognition for organizing in 4th Annual Technical Workshop (ATW-2018), under the theme of Hydrocarbon Exploration Techniques.
- Citizenship Award for attending Inaugural Ceremony of Pakistan Geo-scientists Council (2017).
- Volunteerism Certificate for conference on Social Cohesion and Integration of Non-Muslim Citizens of Pakistan (2017).
- Certificate for completion of community Support Program, Bahria University Islamabad (2017).
- Certificate of Participation in Bahria Auto-Mania (2017).
- Competency based certificate in C-sharp computer language from Nikon Group of Colleges (2015).

TECHNICAL SKILLS

During my bachelor's and Master's, I was truly fortunate to work and gain experience of the following software's.

Kingdom Suite 2024	Geographix 2019	Petro Mod	Arc GIS 10.6
Hampson Russell 2024	Decision Space (DSG)	Rokdoc	Scream 4.5
Techlog 2024	Petrel 2024	Global Mapper	Surfer

Excellent experience of Microsoft Office products such as Excel, Power Point, and Word.

- Create excel pivot tables to compile key data and reports.
- Application of excel formulas such as Financial and logical functions, VLOOKUP, IF STATEMENT, SUM Function, CONCATENATE Function, STATISTICAL and MATHEMATICAL Functions.
- Creating various charts and graphs for visual representations of data sets.
- Implementation of Sort and filter functions and creating linkage of excel spreadsheet with other Microsoft office products.

Excellent computer skills, proficient with windows operating system (GUI). Ability to identify and solve problems independently. Moreover, capable of installing complex computer software and troubleshooting them.

Knowledge of computer networking, LAN, and WAN networking. Specific knowledge of Android smart phone rooting and operating system customization

PUBLICATIONS

Amjad, M. R., Ehsan, M., Hussain, M., Al-Ansari, N., Rehman, A., Naseer, Z., **Ejaz, M. N.**, Baouche, R., and Elbeltagi, A., 2023, Carbonate Reservoir Quality Variations in Basins with a Variable Sediment Influx: A Case Study from the Balkassar Oil Field, Potwar, Pakistan: ACS Omega, v. 8, no. 4, p. 4127-4145. DOI: [10.1021/acsomega.2c06773](https://doi.org/10.1021/acsomega.2c06773) (I.F 4.132)

Naseer, Z., Ehsan, M., Ali, M., Amjad, M.R., **Ejaz, M.N.**, Abdelrahman, K., & Siddiqui, M.H., (2025), Machine Learning Approach for Estimation of Geothermal Characteristics of Sandstone Reservoir Using Geophysical Data Sets: Geothermics (Under review)

HOBBIES & INTERESTS

Volunteering and community involvement	Exploring New Gadgets and Technology.
Outdoor activities	Traveling
Web Surfing & Photography	

PERSONAL INFORMATION

Father Name: Muhammad Ejaz

Nationality: Pakistan

Age: 28 Years

Marital status: Single

Date of birth: 19 January 1997

Languages: English, Urdu & Punjabi

REFEREES

As per request.