

Seymur Mirzaliyev

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PROFILE

I am a recently graduated Petroleum Engineering student with a deep passion for Energy, Earth Science, and Geology. My academic background has equipped me with a strong foundation in the principles of petroleum engineering, and I am eager to apply my knowledge to real-world challenges. I am currently working on a research project where I am analyzing geological formations to better understand their potential for hydrocarbon exploration. As I look forward to the future, I am particularly interested in pursuing projects that explore the intersection of energy and earth sciences, with a focus on sustainable energy solutions and advanced geological studies. I am excited about the opportunity to contribute to innovative projects that aim to optimize resource extraction while minimizing environmental impact.

EDUCATION

Bachelor of Science in Petroleum Engineering | September 2020 – June 2024

Khazar University, Baku, Azerbaijan

Master of Science in Petroleum Engineering | September 2024 – Present

Azerbaijan University of Architecture and Construction, Baku, Azerbaijan

Erasmus Exchange Program | February 2023 – July 2023

University of Tuscia, Viterbo, Italy

WORK EXPERIENCE

English Language Instructor | July 2024 – present

BFC Academy & IB Academy

- Designed and delivered engaging English language lessons to students at various proficiency levels.
- Utilized a variety of teaching methods, including interactive activities and multimedia resources, to enhance student learning.
- Collaborated with colleagues to develop curriculum and share best teaching practices.

Undergraduate research assistant | August 2022 – July 2024

Department of Petroleum Engineering, Khazar University, *Baku, Azerbaijan*

- Proficient in interpreting geological data from various sources, such as well logs, core samples, and seismic data, to understand subsurface structures and stratigraphy.
- Skilled in evaluating rock properties, including porosity, permeability, and saturation, to assess their suitability for hydrocarbon exploration.
- Knowledgeable in analyzing sedimentary sequences and stratigraphic correlations to reconstruct depositional environments and predict reservoir quality.

- Competent in using industry-standard software for geological modeling, data analysis, and visualization to support exploration and production decisions.

Engineering Intern | July 2023 – September 2023

Azneft Production Union, *Baku, Azerbaijan*

- Study Well Testing Interpretation.
- Learned different types of Well Testing methods.
- Analyze the pressure behaviour of the reservoir and wellbore.
- Learned how to work with different types of fluid flow.

Newspaper editor | February 2022 – December 2022

Department of Petroleum Engineering, Khazar University | *Baku, Azerbaijan*

- Led the editorial team in producing the monthly newspaper for the Petroleum Engineering Department.
- Collaborated with team members to visit companies and industry professionals, identifying opportunities for students.

Undergraduate research assistant | July 2022 – November 2022

Nanotechnology Research Group at Khazar University, *Baku, Azerbaijan*

- Applied techniques such as polymer nanocomposite synthesis, characterization, and testing to provide a comprehensive overview of their effectiveness in EMI shielding.
- Explored and documented the use of nanomaterials (e.g., carbon nanotubes, graphene) in enhancing the electrical and shielding properties of polymer matrices.
- Engaged in critical analysis and evaluation of existing research, contributing new insights and recommendations for future studies in the field.

Volunteer | September 2021 – July 2022

Society of Petroleum Engineers (SPE), Khazar University | *Baku, Azerbaijan*

- Assisted in Organizing Events, Workshops and Activities.
- Worked closely with volunteers in a team and encouraged the SPE members, industry professionals and academic institutions, ensuring efficient dissemination of the information and resources.
- Oversaw special projects within SPE from inception to completion, contributing to the growth and success of the organization at the university level.

Teaching Assistant | February 2022 – June 2022

Faculty of School of Science and Engineering at Khazar University, *Baku, Azerbaijan*

- Instructed PHSC 212 - Physics 2 classes as the instructor.
- Assisted in lecture responsibilities for PHSC 212 – Physics - 2 class.
- Provided support to students in understanding course materials.
- Collaborated with faculty to ensure effective delivery of course content and maintained a positive learning environment.

PROJECTS

Fluoropolymer nanocomposites for electromagnetic interference shielding application | May 2023 – November 2023

Conducted research on the development and characterization of fluoropolymer nanocomposites for use in electromagnetic interference (EMI) shielding. The study focused on optimizing material properties to enhance shielding effectiveness while maintaining mechanical and thermal stability. This work contributes to advancing materials for electronic applications, particularly in environments requiring robust EMI protection.

Advanced Fluoropolymer Nanocomposites, <https://doi.org/10.1016/B978-0-323-95335-1.00008-6>

Rock Property Study of Miocene-Oligocene Sequences in the Western South Caspian Basin |

August 2022 – present

Investigated the petrophysical and geological characteristics of Miocene-Oligocene rock sequences to assess their potential for hydrocarbon exploration. The research involved analyzing core samples, well logs, and seismic data to understand the subsurface formations and evaluate their reservoir quality. This study contributes to the broader understanding of the geological potential in the Western South Caspian Basin for energy resource development.

PUBLICATIONS

Seymur Mirzaliyev, Zeynab Farzizada, Rashad Musayev, Matlab Hajiyev, Rasoul Moradi (2023).

Fluoropolymer nanocomposites for electromagnetic interference shielding application

Advanced Fluoropolymer Nanocomposites, <https://doi.org/10.1016/B978-0-323-95335-1.00008-6>

CONFERENCE CONTRIBUTIONS

Seymur Mirzaliyev, Fidan Aslanzade, Elshan Abdullayev, 20-23 November 2022. A research focused on analyzing the petrophysical properties of the Miocene Maikop Series in the Gobustan oil and gas bearing region and Islamdağ section, Azerbaijan. Utilizing core sample data and wireline logs within the Techlog (Schlumberger) program, the study evaluated porosity, permeability, and carbonate content to identify optimal production intervals for hydrocarbon exploration. This work contributes to the understanding of reservoir potential in the South Caspian Basin, a region with significant oil and gas reserves. | *Baku, Azerbaijan*

ACHIEVEMENTS

Participant of SPE French-Azerbaijan University (UFAZ) Petrobowl competition – 4th place/

Attendant as SPE Khazar University - February 2022

Participant of Petrobowl Regional, Russia & Caspian Region - Attendant as SPE Khazar University – April 2022

Participation in Technofest – 2nd place in project competition of “Green Technologies” Category B, qualified for the final round of the competition, Attended as Khazar University team called “Sic Mundus Creatus Est”

2018 "**Khamsa National Intellectual game**" TV Show Final Round Participant | *Baku, Azerbaijan* – December 2019 – Qualified as the Champion of the city and runner-up of the region.

CERTIFICATIONS

Programming for Everybody – University of Michigan | Coursera

February 2022

Officer – Society of Petroleum Engineers (SPE) | Khazar University

July 2022

Engineering Bootcamp | British Petroleum (BP)

December 2022

EXTRA-CURRICULAR ACTIVITIES

Certificate of Attendance in Erasmus Exchange Program | University of Tuscia August 2023
Certificate of Italian Language Course | University of Tuscia May 2023
Certificate of Participation in MultiCultiUni | University of Tuscia May 2023

SKILLS

Python	Intermediate	MATLAB	Beginner
CorelDRAW	Intermediate	Neuralog	Beginner
Techlog Wellbore Software (Schlumberger)	Intermediate	PIE Software	Beginner
Microsoft Office	Intermediate	Ansys Engineering	
Canva	Intermediate	Simulation Software	Beginner

Social Skills

Leadership, Team Working, Problem Solving, Innovative Thinking, Critical Thinking, Management, Communication, Time Management, Creativity, Strategy,

LANGUAGES

Azerbaijani	Native speaker	Turkish	Highly proficient
English	Highly proficient	Italian	Working knowledge

HOBBIES

Football, Chess, Drawing, Classical Music, Physics, Intellectual games, Programming, Data Science