Zulkuf Azizoglu
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EDUCATIONAL INFORMATION

The University of Texas at Austin
Petroleum and Geosystems Engineering, Ph.D.
2019 – 2025/2026 (Flexible)

Middle East Technical University
Petroleum and Natural Gas Engineering, Bachelor's
2014 – 2019, CGPA: 3.82/4.00

AWARDS

SPWLA 2024 – 2025 Distinguished Speaker, Link

UT PGE Energy Hackathon 2025, 1st place, Link

UT Geoscience Hackathon 2024, 2nd place, Link

University Graduate Continuing Fellowship 2023 – 2024
Nominated by the petroleum engineering department in recognition of my graduate research

PROFESSIONAL INFORMATION

Graduate Student Researcher
The University of Texas at Austin, USA
- **Strong physics and math skills**
- **Experienced in interpretation of electromagnetic measurements**
- **Multi-physics petrophysical evaluation**
- Advanced inversion experience
- Advanced Petrophysics teaching assistant
- Principles of Formation Evaluation teaching assistant
- Image processing (e.g., segmentation) and pore-scale numerical modeling
- Well-log interpretation (unconventional, shaly sandstones, and pre-salt carbonate)
- **Petrophysics laboratory manager**
  - Extensive laboratory experience
  - Experimental setup design
  - Mentored new students
  - Laboratory safety officer
  - **Complex conductivity, NMR, core sample preparation, porosity and permeability tests, wettability quantification**

Wireline R&D
Halliburton, USA
May 2024 – August 2024, Summer Internship
- **Machine learning** in petroleum engineering
- **Outcome: Two papers and one invention disclosure**
- Mentor: Songhua Chen, songhua.chen@halliburton.com

Reservoir Engineer
SLB, Turkey
September 2018 – October 2018, Summer Internship
- Learned to use two reservoir simulation software (Eclipse and Petrel)
- Successfully modeled an oil reservoir and presented my results to the management.

Rock and Fluid Analysis Laboratory Researcher
Turkish Petroleum, Turkey
July 2018 – August 2018, Summer Internship
- Routine and special core analysis
- PVT analysis

Software: MATLAB, Python, Techlog, and Interactive Petrophysics, ImageJ, Ilastik, Eclipse, Petrel
Language: English and Turkish (Full Proficiency)

SERVICES TO THE PROFESSIONAL SOCIETY

Technical Reviewer for SPE Journal and Geophysics
http://www.webofscience.com/wos/author/record/HJZ-4685-2023

PEER-REVIEWED PUBLICATIONS

Scholar link

Selected Publications

1- Influence of salt concentration and type on dielectric permittivity of rocks, 2024. SPE Journal. https://doi.org/10.2118/223606-PA

2- Azizoglu, Z., Heidari, Z., 2024. The effect of salt concentration on dielectric permittivity and interfacial polarization in carbonate rocks with complex pore structure. SPE Journal. https://doi.org/10.2118/210315-PA

3- Azizoglu, Z., Posenato Garcia, A., Newgord, C., Heidari, Z., 2022. Simultaneous assessment of wettability and water saturation through integration of 2D NMR and electrical resistivity measurements. SPE Reservoir Evaluation & Engineering. 1–14. https://doi.org/10.2118/201519-pa