MD UPAL SHAHRIAR
mshahri2@cougarnet.uh.edu / 832-387-7370
https://www.linkedin.com/in/md-upal-shahriar

SUMMARY

A geology Ph.D. student at the University of Houston who will graduate in August 2025. Skilled in structural and stratigraphic interpretation, basin analysis, reservoir characterization, and formation evaluation using 2D/3D seismic data and wireline logs. With two published journal articles seeking an internship as an oil and gas exploration and production geoscientist in the oil and gas industry to intensify self-worth and experiences for mutual progress in solving geoscience problems.

TECHNICAL SKILLS

- **Professional Software:** Petrel, Kingdom Suite, Structure Solver, Techlog, Oasis Montaj, ArcGIS, Didger 5, Adobe Illustrator, CorelDraw.
- **Courses:** Machine Learning with Python: A Practical Introduction by IBM on Edx.

EDUCATION

UNIVERSITY OF HOUSTON   **August 2022- Present**
Ph.D. student in Geology/ Research Assistant at CBTH, CGPA: 3.75/4.0
- Advisor: Paul Mann
- Research: Crustal structure, stratigraphy, and hydrocarbon system assessment of the rifted passive margin of North-west Africa
- Coursework: Seismic structural geology, Sequence stratigraphy, Carbon sequestration (SEG EVOLVE), Potential field methods.

JAHANGIRNAGAR UNIVERSITY, BANGLADESH
Master of Science in Geological Sciences, GPA: 3.96/4.00   **2018**
- Concentration: Geophysics
- Thesis: Reservoir characterization using geophysical data of the Sangu gas field, offshore Bangladesh.
- **Award**: National Science and Technology Fellowship by the Ministry of Science and Technology, Bangladesh.   **2017**

Bachelor of Science in Geological Sciences, CGPA: 3.75/4.00   **2016**
- **Awards:** General Scholarship by the Government of the Peoples Republic of Bangladesh based on undergraduate academic record. And Jahangirnagar University Merit Scholarship for the undergraduate academic record.   **2015**

PROFESSIONAL EXPERIENCE

RESEARCH ASSISTANT AT CBTH CONSORTIUM, UNIVERSITY OF HOUSTON   **August 2022-Present**
- Interpretation of seismic, well, and potential field data to study the structure, tectonics, and stratigraphy of the Mauritania, Senegal, and Guinea Plateau rifted passive margin of Northwest Africa.
- Assessment of the petroleum system and basin modeling for hydrocarbon potential analysis of the area.

GEOLOGIST AT PROSOIL FOUNDATION CONSULTANT, BANGLADESH   **May 2018 – July 2022**
- PS logging data acquisition and interpretation, Cross-hole sonic logging, Borehole logging, and subsurface modeling for the Dhaka Mass Rapid Transit Project.
- Parallel Seismic Investigation and Multichannel Analysis of Surface Waves (MASW) data acquisition for the Rampal Power plant Project, Sundarbans, Bangladesh.

RESEARCH ASSISTANT AT JAHANGIRNAGAR UNIVERSITY, BANGLADESH   **May 2016 - January 2018**
- Reservoir quality (Petrophysics, thin-sections, and volumetrics) assessment of the hydrocarbon-bearing Neogene reservoirs of the Sangu gas field, offshore, Bangladesh. research project under the Ministry of Education of the Peoples Republic of Bangladesh.

INDUSTRIAL TRAINEE AT BANGLADESH PETROLEUM EXPLORATION AND PRODUCTION COMPANY   **October 2016**
- Participated in a twelve-day practical training program on subsurface structure delineation and drilling. The training included 2D and 3D Seismic Data Processing and Interpretation, well proposal preparation, and drilling operation process.

RESEARCH AND PUBLICATIONS

- **Shahriar, M.U.,** Hossain, D., Hossain, M.S., Rahman, M.J.J. and Kamruzzaman, 2020. Geophysical characterization of the Sangu gas field, offshore, Bangladesh: constraints on reservoirs. *Journal of Petroleum Geology*, *43*(4), pp.363-382.

- Kamruzzaman., Hossain, D., Sarker, M.R., Khatun, M. and **Shahriar, M.U.**, 2022. Improving insights into petrophysics using geophysical data for the Habiganj structure, Surma basin, Bangladesh. Handbook of petroleum geoscience: Exploration, characterization, and exploitation of hydrocarbon reservoirs, pp.394-412.

- Nayon, S., Hossain, D., Islam, M., Sarkar, M.R., **Shahriar, M.U.,** Abdullah, R., (In preparation). Seismic Attributes and Well Logs for Reservoir Assessment: A Case Study of the Sangu Gas Field, Offshore, Bangladesh.

CONFERENCES AND WORKSHOPS

- Shahriar, M.U., & Mann, P., 2023. Impact of Jurassic volcanic/non-volcanic margin boundary on HC prospectivity, Northwestern Africa. SEG & AAPG International Meeting for Applied Geoscience & Energy (IMAGE '23), August 29, 2023.

- Presented oral technical talk on "Defining the crustal structure of the rifted-passive margin of Mauritania and implications for its hydrocarbon potential" at the University of Houston Student Research Day, April 30, 2023.

- Shahriar, M.U., & Mann, P., 2023. Using gravity and seismic reflection data to reveal the non-volcanic rifted margin of Mauritania and the adjacent volcanic rifted margin of Guinea Plateau. AAPG Gulf Coast Section GCAGS Geolgulf 2023 conference, April 23, 2023.

- Presented poster on 'Comparison of the Mauritania Passive Margin with Guinea Plateau and Conjugates at Guyana' at the University of Houston's Robert E. Sheriff Lecture event, November 14, 2022.

- Shahriar, M.U., Hossain, D., Hossain, M.S., Reservoir Characterization using Well Logs and 2D Seismic Data of the Sangu Gas Field, Offshore Bangladesh. International Conference on Recent Advances in Mathematical and Physical Sciences (ICRAMPS, 2018), January 29, 2018.

- 'Youth Dialogue' honored by Dr. A.P.J. Abdul Kalam, physicist, and former president of India. October 17, 2014

- Exploration drilling operations project visit and workshop at the Rupganj Gas field, Bangladesh during exploration drilling, May 3, 2014.