

MD NAHIDUL HASAN  
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### SUMMARY

First year University of Houston Geology PhD student with an emphasis on structure/tectonics, basin analysis and petroleum systems. Seeking an internship in oil and gas exploration for summer, 2020.

### EDUCATION

**Doctor of Philosophy in Geology** May 2022 (expected)

University of Houston

Advisor: Dr. Paul Mann

Current Project: Structure, tectonics and petroleum systems potential of the Campeche salt province, Gulf of Mexico.

Courses: Sequence Stratigraphy, Seismic Structural Geology, Petroleum Geochemistry.

**Master of Science in Geology** July 2019

Southern Illinois University Carbondale

CGPA: 4.00 out of 4.00

Thesis Title: Reservoir characterization of Kizler North Field, Kansas, USA.

Courses: Applied Seismology, Applied Geophysics, Seismic Processing and Interpretation, GIS.

Activities: Imperial Barrel Award competition team, Spring 2018 (3D seismic interpretation of North Viking Graben).

**Master of Science in Geological Sciences** August 2017

Jahangirnagar University

CGPA: 3.71 out of 4.00

Thesis Title: Identifying small-scale heterogeneity within the reservoir rock of the Shahbazpur Gas Fields, Bengal Basin, Bangladesh.

**Bachelor of Science in Geological Sciences** February 2016

Jahangirnagar University

CGPA: 3.62 out of 4.00

Class position: 2nd

### WORK EXPERIENCE

University of Houston August 2019- Present

#### Research Assistant & Presidential Fellow

- Conjugate Basins, Tectonics, & Hydrocarbons Research Group (CBTH) project researcher.
- Tectonostratigraphic evolution of the Campeche salt province, Mexican GOM.

Southern Illinois University Carbondale, IL August 2017- May 2019

#### Teaching assistant

- Duties involved developing course materials, grading, proctoring, preparing assignments, meeting with students, assisting with field trips.

#### Completed Projects

- Project title: Reservoir characterization of the Kizler North Field, Lyon Co., Kansas, USA.
- Project title: Identifying Depositional Heterogeneity within Reservoir Rocks of the Shahbazpur Structure, Bengal Basin, Bangladesh. Research Project under the financial aid of Jahangirnagar University, Bangladesh.
- Project title: Recognition of the Diagenetic Sequence for Reservoir Rocks of the Shahbazpur Structure, Bengal Basin and Its Impact on Reservoir Quality. Research Project under the financial aid of University Grants Commission of Bangladesh.

**Academic Achievements:**

1. University of Houston Presidential Fellowship (2019-2022)
2. On to the Future Program Scholarship by Geological Society of America (2018).
3. John L. Jobling Memorial Geology Fellowship by Dept. of Geology, SIUC (2018).
4. National Science and Technology Fellowship by Ministry of Science and Technology, Government of People's Republic of Bangladesh for MS Thesis (July 2016-June 2017).
5. General Scholarship by Government of Peoples Republic of Bangladesh based on Undergraduate Academic Record (2014).

**Field trips and reports:**

1. A sequence stratigraphy field trip focused on siliciclastic rocks exposed near Rock Springs, Wyoming, USA (August 24-30, 2019).
2. A geologic field trip to Glen Canyon National Recreation Area, Utah, USA (March 11-18, 2019)
3. A geologic field report on Sitakund, Sitapahar and Jaintiapur Hill Range, Bangladesh.

**Laboratory Skills:** Core analysis, X-ray diffraction, Scanning electron microscopy, Porosity and permeability determination, Thin section preparation and analysis.

**Software experience:** Petrel, Kingdom Suite, Vista, Interactive Petrophysics, ArcGIS 10.6, CorelDraw, MATLAB, MOVE, StructureSolver.

**Professional Affiliations:** GSA, AAPG, SEG.

**Publications/Conferences:**

1. Hasan, M. N, Potter-McIntyre, S.L, Tedesco, S. Effects of wrench fault reactivation on the late stage migration of the Kizler North Field, Lyon Co., Kansas, USA. (In preparation for AAPG Bulletin).
2. Hasan, M. N, Potter-McIntyre, S.L, Tedesco, S. Reservoir characterization of the Kizler North Field, Lyon Co., Kansas, USA, 2018. Geological Society of America Annual Meeting, Indianapolis, Indiana (accepted abstract).
3. Hasan, M.N, Yeasmin, R., and Rahman, M.J.J. Facies associations and paleoenvironmental reconstruction of the reservoir rocks of the Shahbazpur Structure, Bengal Basin, 2018. Geological Society of America Annual Meeting, Indianapolis, Indiana (accepted abstract).
4. Yeasmin, R., Hasan, M.N., and Rahman, M.J.J. Depositional heterogeneity within the reservoir rocks of the Shahbazpur Structure, Bengal Basin, 2016. Bangladesh Geoscience Journal, v. 22, 39 – 57.

[Reference on Request]