

Jasmin Naher

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PERSONAL STATEMENT

Ph.D. candidate in Earth Sciences specializing in basin analysis, facies interpretation, and subsurface mapping, with hands-on experience integrating field, core, and wireline log data. Aiming to leverage my expertise to real-world energy challenges and contribute innovative solutions in petroleum exploration and carbon management.

EDUCATION

University of Connecticut, CT

Anticipated Fall 2026

Ph.D. Candidate in Earth Sciences

(Research Focus: Reconstructing the evolutionary phases of eastern Australian basins through stratigraphic correlation).

Auburn University, AL

2020

M.S. in Geosciences

(Research Focus: Provenance analysis of Oligocene sediments in the Bengal Basin and Shillong Plateau).

University of Dhaka, Bangladesh

B.S. (Honors) in Geology

2014

RELEVANT EXPERIENCE

Ph.D. Research: Stratigraphic Architecture and Sediment Dispersal Patterns in the Permo-Triassic Successions of Eastern Australia (current Ph.D. project)

- Correlated formation tops by analyzing wireline log signatures and incorporating published literature and well completion reports from ~1,300 boreholes, using coal and tuff beds as marker horizons.
- Traced major stratigraphic surfaces, including flooding surfaces and unconformities.
- Constructed formation isochore maps, net sand maps, sand fractions maps that delineated the sediment dispersal patterns and the evolution of delta over time.
- A chemostratigraphic approach will be applied to identify the source terrains of Permo-Triassic sediments.

M.S. Research: Petrofacies & Detrital Geochronology, Bengal Basin & Shillong Plateau.

- Conducted geological fieldwork for sampling, facies analysis, and understanding the depositional environments of Oligocene deposits in the Bengal Basin.
- Performed sandstone petrography, heavy mineral analysis, electron microprobe analysis, and detrital geochronology to determine the provenance of Oligocene sediments.

Teaching Experience:

- Taught undergraduate geology courses on the Anthropocene and Earth's dynamic systems (2018–2023); developed teaching materials, organized and led field and lab sessions, managed lab setup, and evaluated student performance.
- Taught Science and Mathematics to students in Grades 5–8, including learners on the autism spectrum (2014–2017).

TECHNICAL SKILLS

- Petrel, ArcGIS 10.8, Adobe Photoshop/Illustrator, Microsoft Office, CorelDRAW
- StarSteer, ERDAS Imagine, Geochemist's Workbench, R

LEADERSHIP

Graduate Student Senate Representative, Univ. of Connecticut (2024-2025)

- Represented Earth Sciences graduate students (around 40) in Senate meetings, communicated student concerns, and collaborated on policy initiatives with faculty and fellow students.

Cultural Secretary, Bangladesh Student Organization, Auburn Univ. (2019)

- Organized and led cultural events, introducing Bangladeshi heritage to the wider university community while coordinating logistics and team efforts.

PROFESSIONAL ACTIVITY

- Poster Presentations: IMAGE 2025 (Houston); NE GSA 2024 (New Hampshire), GSA 2023 (Pittsburgh); GSA 2019 (Phoenix).
- Workshop attendance: IODP Early-Career Learning Communities (2023, 2024), Occidental Petroleum (2019).

GRANTS & FELLOWSHIPS

Awarded student research grants from AAPG (\$3,000, 2019 & 2024), GSA (\$2,500, 2019 & 2024), SEPM (\$1,090, 2024), and Auburn University Geosciences Advisory Board (\$1,500).

PROFESSIONAL AFFILIATIONS

GSA | SEPM | AAPG | IAS