Sriharsha Thoram

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OBJECTIVE

Accomplished, achievements-driven, and results-oriented geophysics graduate seeking an internship in the oil and gas industry.

EDUCATION

University of Houston, TX, USA **Graduation: Dec'20 (expected)**

Ph.D. in Geophysics and Seismology (GPA: 3.97/4.0)

Dissertation on "Late Cretaceous Tectonic Evolution of Walvis Ridge and Rio Grande Rise hotspot system in South Atlantic using seafloor magnetic anomalies."

Birla Institute of Technology and Science, Pilani, India **Graduation: Jul'13**

Bachelors in Information Systems

RESEARCH EXPEDITIONS

Co-Chief Scientist, Expedition ANT374 [R/V Thomas G. Thompson] **Dec'19 – Jan'20**

- Objective – Collecting seafloor magnetic, gravity and multibeam bathymetry data to decipher the complex tectonic evolution of Walvis Ridge oceanic plateau offshore Namibia in South Atlantic.
- Role – Training cruise participants on processing of magnetic, gravity, and bathymetry data; Working closely with the Chief Scientist to troubleshoot survey issues and to revise the survey plan accordingly.

Co-Chief Scientist, Expedition ANT373 [R/V Thomas G. Thompson] **Nov'19 – Dec'19**

- Objective – Acquiring multi-channel seismic profiles over Walvis Ridge oceanic plateau to perform a complete site characterization of drill sites chosen for IODP Expedition 391, which will focus on understanding the geodynamic significance and origin of Walvis Ridge.
- Role – Worked with Chief Scientist to develop a survey plan in accordance with the research objectives; Mentored 7 graduate and 2 undergraduate students and delegated their roles and responsibilities; Collaborated with the Chief Scientist, Marine technicians and the Captain to ensure cruise objectives are timely met.

Scientist, Expedition NBP1808 [R/V Nathaniel Palmer] **Oct'18 – Dec'18**

- Objective – Understanding the tectonic evolution of Rio Grande Rise oceanic plateau in South Atlantic by dredging the plateau and surrounding seamounts, mapping using multibeam bathymetry, and collecting magnetic data to identify seafloor anomalies.
- Role – Processed magnetic, gravity and multibeam data; Helped in cutting dredged rocks and prepared samples for geochemical analysis and radioactive dating.

Scientist, Bolivar Roads Survey, Galveston [R/V Scott Petty (pre), R/V Trident (post)] **Aug'17 – Nov'17**

- Objective – Studying extreme storm sedimentation patterns and morphological changes that occurred in Bolivar Roads tidal inlet due to Hurricane Harvey using side-scan, swath bathymetry and sub-bottom profiler data collected before and after the hurricane.
- Role – Designed the entire survey; Managed the navigation software and operated Edgetech 4600 sonar and Edgetech 3100 chirp systems; Mentored and trained 2 graduate students in processing of the acquired data.

Scientist, Expedition FK151005 [R/V Falkor] **Oct'15 – Nov'15**

- Objective – Understanding the tectonic origin of Tamu Massif, the world's largest single volcano in Pacific deep waters, by using multibeam sonar systems and marine magnetometers.
- Role – Responsible for monitoring and surveillance of data acquisition; Helped with processing of multibeam data; Compiled cruise data in MGD77T format.

RESEARCH PUBLICATIONS

- **Thoram, S.**, Sager, W. W., & Jokat, W. (2019). Implications of Updated Magnetic Anomalies for the Late Cretaceous Tectonic Evolution of Walvis Ridge. *Geophysical Research Letters*, 2019GL083467. [Presented at AGU Fall Meeting 2018]
- Sager, W. W., **S. Thoram**, D. W. Engfer, A. A. P. Koppers, and C. Class (2019). Late Cretaceous Ridge Reorganization, Microplate Formation, and the Evolution of the Rio Grande Rise – Walvis Ridge Hot Spot Twins, South Atlantic Ocean. *Geochem. Geophys. Geosys*. (in review). [Presented at AGU Fall Meeting 2015]

LEADERSHIP

Co-Chief Scientist, Expedition ANT373 and ANT374 [R/V Thomas G. Thompson] **Nov'19 – Jan'20**

- Responsibilities – Assisting Chief Scientist with pre-cruise planning; Scientist-in-charge on one 12-hour watch, opposite the Chief Scientist; Ensuring the cruise objectives are timely met; Mentoring students assigned to the watch.

Social Media Chair, SEG Wavelets **Jun'19 – Present**

- Created and implemented a social media strategy in accordance with Wavelets goals and tracked social media metrics on a regular basis.
- Interacted with members via social media channels including posting content, responding to posts, monitoring, and generating followers at events.

Teaching Assistant, Marine Geophysics Field Camp, Galveston Bay **Summer 2018, 2019**

- Trained a group of 60 undergraduate students on the acquisition and processing of multibeam, side-scan and sub-bottom data during the summer geophysics field camp in Galveston Bay onboard R/V Trident.

AWARDS

- Advanced Ph.D. Poster Presentation – **1st place** among 50 Ph.D. students – EAS Research Day (2019).
- **EAS Graduate Scholarship** for outstanding graduate work in geophysics (2018, 2019).
- International Education Scholarship (2018, 2019).
- **Dobrin Endowment Award** for outstanding graduate work in geophysics (2017).

INTERNSHIPS

Geoscience Intern, Fugro Marine Inc., Houston, TX **Jun'19 – Aug'19**

- Performed a complete site characterization of Oyster Creek windfarm project, offshore New Jersey, using six different types of geophysical data – ultra-high-resolution seismic, sub-bottom data, side-scan, multibeam, backscatter, and magnetic data – in order to identify potential sites for installing wind turbines.

Geoscience Intern, Fugro Marine Inc., Houston, TX **Jun'18 – Aug'18**

- Worked on the implementation of a more robust workflow for detection of shallow hazards on the northern slope of Alaska. Some of the common shallow hazards in this area include gas hydrates, over-pressured formations, gas and permafrost.

SKILLS

- **Relevant Skills** – Gravity and magnetic data modeling; Seismic attribute analysis; Seismic data processing and interpretation.
- **Software** – Oasis Montaj, Paradigm Echos, Rokdoc, Kingdom, Caris HIPs and SIPs, SonarWiz, ArcGIS, Paradise.
- **Programming Languages** – Matlab, Python, C, C++, Shell Scripting, SQL.

PROFESSIONAL ASSOCIATIONS

Society of Exploration Geophysicists, American Geophysical Union, American Association of Petroleum Geologists