

Kanwa Sengupta
PhD Student
Earth, Ocean and Atmospheric Sciences
Florida State University

Contact Information

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Education

PhD in Geology

2022 – Present

Florida State University, Tallahassee, Florida, USA
GPA: 4.0/4.0

- Dissertation Title: "Investigating the fate of carbon during metamorphism in convergent tectonic settings"
- Advisor: [Dr. Emily Stewart](#)
- Committee: Prof. Yang Wang, Prof. Mainak Mookherjee and Prof. Oliver Steinbock

Master of Science in Geology

2020 – 2022

Indian Institute of Technology, Kharagpur, India
CGPA: 9.72/10

- Master's Thesis Title: "Metamorphic evolution of K-feldspar-kyanite migmatite zone rocks from the Lesser Himalayan Sequence of the Western Arunachal Himalayas"
- Advisor: Prof. Santanu Kumar Bhowmik

Bachelor of Science in Geological

2017 – 2020

Jadavpur University, Kolkata, India
Minor: chemistry and Mathematics
CGPA: 8.88/10
Percentage: 83.78%

- Bachelor Research Seminar: "Petro-geochemical characterization of Anorogenic and Post-Orogenic granites"
- Advisor: Prof. Sanjoy Sanyal

Research Experience

Graduate Research Assistant

2022 – Present

Florida State University, Tallahassee, Florida, USA

- Research Area: Metamorphic Petrology, Geochemistry, Volatile cycling
- Skills and Instrumentation: Petrography, Thermodynamic modelling, Geochemical Modelling, Electron Microscopy, Stable isotope mass spectroscopy, Raman Spectroscopy

Master's Student

2020 – 2022

Indian Institute of Technology, Kharagpur, India

- Research Area: Metamorphic Petrology, Tectonics
- Skills and Instrumentation: Petrography, Thermodynamic modeling, Geochemical Modeling,

Publications

Conference Proceedings

- **SENGUPTA, Kanwa** and STEWART, Emily, Extreme Thermal Gradient and Carbon Loss in Contact Metamorphic Rocks: A Field-Based Study of the Tudor Gabbro Contact Aureole, Grenville Orogeny, Canada. *AGU Fall Meeting*, 2024.
- STEWART, Emily, SAHA, Sayantan and **SENGUPTA, Kanwa**, A field-based estimate of Precambrian metamorphic CO₂ degassing. *Goldschmidt Conference*, 2024
- **SENGUPTA, Kanwa** and STEWART, Emily, Constraints on Metamorphic Decarbonation in a Proterozoic Orogen: Observational and Thermodynamic Evidence from the Central Metasedimentary Belt, Grenville Province, Ontario, Canada. *AGU Fall Meeting*, 2023.
- ALLMAN, Lindsay, **SENGUPTA, Kanwa**, STEWART, Emily, MOOKHERJEE, Mainak and BASU, Abhisek CONTACT METAMORPHISM AND DECARBONATION DURING EMPLACEMENT OF THE CENTRAL ATLANTIC MAGMATIC PROVINCE, FLORIDA. *Geological Society of America Abstracts with Programs*. Vol. 55, No. 2, 2023

Teaching Experience

Florida State University

GLY 2010L- Physical Geology Lab (Spring 2023, Fall 2023, Spring 2024)

Independent lab section leader, course design, grading and leading field trip to southern Alabama

GLY 2010- Physical Geology (Fall 2022)

Grader.

Grants, Awards and Honors

- Early career student grant for attending GSA Penrose Conference, 2025. Geological Society of America, 2025.
- Professor Amitabha Chakrabarti Memorial Award for Best student in order of merit in M.Sc GEOLOGY from IIT Kharagpur, Indian Institute of Technology, Kharagpur, 2022.
- Institute Silver Medal, for Best student in order of merit in M.Sc GEOLOGY from IIT Kharagpur, Indian Institute of Technology, Kharagpur, 2022.
- INSPIRE- SHE scholarship Department of Science and Technology, Government of India 2017-2022

Distinctions

- Qualified Indian Institute of Technology Joint Admission Test for M.Sc. (JAM) 2020 with AIR 42
- Qualified Graduate Aptitude Test In Engineering (GATE) 2022 Geology and Geophysics with AIR 127
- Qualified Joint CSIR - UGC NET JUNE 2021 Lectureship/Assistant Professor

Professional Membership and Position of Responsibility

- American Geophysical Union, 2023-2024
- Geological Society of America, 2025- present
- Society of Exploration Geophysicists, 2017-2020,
Vice President of Society of Exploration Geophysicists- Jadavpur University Student's Chapter (2020)
Treasurer of Society of Exploration Geophysicists- Jadavpur University Student's Chapter (2019)