

Sayak Ray

National Institute of Technology Rourkela

Email: skray1994@gmail.com; 521er1005@nitrkl.ac.in

Education:

- Bachelor of Science in Geology (Hons.), University of Calcutta, West Bengal, India, 2013-2016.
- Master of Science in Applied Geology, National Institute of Technology Rourkela, Odisha, India, 2016-2018.
- Master in Technology (M. Tech) in Mineral Exploration, IIT ISM Dhanbad, Jharkhand, India, 2018-2020
- Doctor of Philosophy (Ph.D.), National Institute of Technology Rourkela, 2021-present.

Research Interest:

The Earth's crust is constantly in motion, with every part of the surface moving due to plate tectonics and is subject to a variety of periodic, steady and transient deformations. My research interest involves understanding of crustal deformation over active fault zones, assessing seismicity potential and its modulating/triggering processes in microseismic events and over Earthquake prone areas near plate boundaries as well as in plate interiors, using high precision GPS observations, InSAR technique and other geodetic tools.

I am currently working on assessing the geodynamic complexity, earthquake occurrences and crustal deformation involved in the active plate boundary fault called Sagaing Fault in Myanmar, which has been drawing increasing attention from the world for its seismic hazard.

Internship/Training Experience:

2019 Training in Tin tantalum ores from Mining Mineral Resources (MMR) at DRC, Africa, for 1 month.

2017 Internship on Sand-box analogue modelling of sectional evolution of fold and thrust belt in oblique convergence, from Jadavpur University for 2 months.

Software Knowledge: Experienced – *Microsoft office, Excel*; Basic- *QGIS 3.12, Google Earth, Corel Draw*; Elementary- *Grapher, Surfur, Matlab*

Apart from study: I have been the captain of school cricket team, I like watching and playing football and other outdoor games, certified swimmer, also like watching movies and TV series in my spare time.

Awards and Grants:

2017. CSIR-UGC NET JRF: 2017, LS (Rank 25)

2018. Qualified GATE: 2018 (Rank- 786)

2019. Qualified GATE: 2019 (Rank- 539)