

## **Masud Rana**

Jadavpur University, Kolkata

Email: [iammasud98@gmail.com](mailto:iammasud98@gmail.com) ; [masudr.geology.rs@jadavpuruniversity.in](mailto:masudr.geology.rs@jadavpuruniversity.in)

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### **Education:**

- Bachelor of Science (B.Sc) in Geology (Hons.), Jadavpur University, West Bengal, India, 2016-2019.
- Master of Science (M.Sc) in Applied Geology, Jadavpur University, West Bengal, India, 2019-2021.
- Doctor of Philosophy (Ph.D.) in Structural Geology, Jadavpur University, West Bengal, India, 2022-ongoing.

### **Research Interest:**

I am currently working on the evolution of large-scale deformed structures resulting from the interactions between variation of stress field and rheological properties. Spatial and temporal variation of rheological properties is very common, which primarily depends on chemical composition, temperature, confining pressure and pore fluid pressure. My research work involves analogue and numerical modelling to explore the geodynamic complexity, reactivation of fault surfaces, and crustal deformation involved in active plate boundaries.

**Software Knowledge:** *Matlab, PIV-Lab, C-programming, Google Earth Pro, Corel Draw, Global Mapper, Origin; Numerical modelling- Abaqus.*

### **Conference publication:**

Basu Majumder, D., **Rana, M.**, Samanta, S.K., 2024. Effect of deforming lower crust on the development of graben structures in extensional tectonic setup: Insight from physical analogue modelling. Abstract Volume of the IASGT workshop. p-82. <http://dx.doi.org/10.13140/RG.2.2.10013.12008>

**Extracurricular activities:** Cricket, Drawing, NCC.

### **Awards and Grants:**

2016-21: National Scholarship  
2022: Qualified GATE: 2022 (Rank- 330)  
2022: CSIR-UGC NET JRF: 2022, JRF  
2023: Qualified West Bengal SET: 2023  
2023: CSIR-UGC NET JRF: 2022-23, JRF (Rank- 80)  
2023: CSIR-UGC NET JRF: 2023, LS (Rank- 78)