

Dr. Dipanjan Bhattacharjee

Assistant Professor, Department of Geology, IGNTU-Amarkantak



B.Sc: University of Calcutta, 2008

M.Sc: University of Calcutta, 2010

Ph.D: University of Delhi, 2016

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Research Interests

- Structural Geology and Neotectonics
- Digital Mapping
- Geomorphology
- Analogue and numerical modelling of crustal deformation
- Application of fractals in Geology

Experience

- **Assistant Professor** in the Department of Geology, **IGNTU** (2017 to present)
- **National Post Doctoral Research Fellow** (SERB) **Indian Institute of Technology, Gandhinagar** (2016 to 2017)
- **Assistant Professor (ad-hoc)** in the Department of Geology, **University of Delhi** (2015 to 2016).
- **Guest lecturer** in the Department of Geology, **University of Delhi** (2014 to 2015).

Selected Recent Publications

- **Bhattacharjee. D**, Jain. V, Chattopadhyay. A, Biswas. R. H., Singhvi. A. K, 2016, “*Geomorphic evidences and chronology of multiple neotectonic events in a cratonic area: Results from the Gavilgarh Fault Zone, central India*” **Tectonophysics** 677 (2016): 199-217.
- **Bhattacharjee. D**, Chattopadhyay. A, Jain. V, 2014, “*Polyphase neotectonic movements in the Gavilgarh Fault Zone, central Indian craton: evidences from geomorpho-tectonic analysis*” **Geophysical Research Abstracts**, EGU2014-6482-1, vol. 16.
- Chattopadhyay. A, Jain. M, **Bhattacharjee. D**, 2014 “*Three-dimensional geometry of thrust surfaces and the origin of sinuous thrust traces in orogenic belts: insights from scaled sandbox experiments*” **Journal of Structural Geology**, 69, 122-137. (* secured 6th position out of Top 25 Hottest Articles of Journal of Structural Geology, October to December 2014).
- Chattopadhyay. A, **Bhattacharjee. D**, Mukherjee. S., 2013, “*Structure of pseudotachylyte vein systems as a key to co-seismic rupture dynamics: the case of Gavilgarh-Tan Shear Zone central India*” **International Journal of Earth Sciences**, p. 1-13.
- **Bhattacharjee. D** & Chattopadhyay. A., 2017, “*Repeated reactivation of Gavilgarh-Tan Shear Zone, Central India: implications for the tectonic survival of deep-seated intra-continental fault zones*” submitted in **Current Science**
- Sarkar. A, **Bhattacharjee. D**, Chattopadhyay. A., 2017, “*Size distribution of survivor clasts in pseudotachylyte and cataclasite: implication for crushing and melting process in brittle fault zones*” submitted after minor revision in **Tectonophysics**.