Curriculum Vitae

Dr. KALYANBRATA HATUI

Assistant professor, Department of Civil Engineering, NITK Surathkal, Mangalore-575025

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Education

Ph.D., Geological Sciences	2021
University of Delhi, North Campus, Delhi, India	
Topic: Structural, metamorphic and geochronological study of Delhi Supergroup rocks from Kumbhalgarh-Sayra-Ranakpur area, Rajasthan: Implications for the tectonic evolution of South Delhi Fold Belt	
Supervisor: Prof. Anupam Chattopadhyay	
Master of Science, Applied Geology	2014
Presidency University, Kolkata, India Sessional Grade Point Average (SGPA): 7.80	
Dissertation: Petrography and Geochemistry of Mafic Rocks in and around Sati and Saraspada, North of Bisoi, Mayurbhanj District, Orissa, India	
Supervisor: Prof. Arijit Ray	
Bachelor of Science, Geology (Honors)	2012
Presidency College (affiliated to University of Calcutta), Kolkata, India First division and Qualified with Honors	
Summer Project: A Study of Geomorphic Parameters of The Upland Catchment Basin of Tista River using GIS-RS Techniques	
Advisor: Prof. Parthasarathi Ghosh, Indian Statistical Institute, Kolkata, India	
Software and Machinery Skills	
Software Exposure: ArcGIS/QGIS, AutoCAD, SNAP 8.0, CorelDRAW Graphics Su	uite,
Python, Interdex 8.0, GEOrient, GeoRose, Grapher 7.0 and other common softwa	are
Sophisticated Instruments Operated: Nikon, Leica and Olympus Optical Systems	
Experimental Structural Geology Apparatus: Sand Box Model, Shear Apparatu	us etc.
Industrial Training: Petroleum Exploration at Oil and Natural Gas Corporation L	imited

(ONGC), Kolkata, 2014

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Experience in Industry and Academics

Assistant Professor

Department of Civil Engineering National Institute of Technology Karnataka (NITK Surathkal)

Post-Doctoral fellow

Department of Earth Sciences Indian Institute of Technology, Kanpur (IIT Kanpur)

Assistant Manager - Geologist

Rashmi Group, Ideal Center, 9, Acharya Jagadish Chandra Bose Rd, Kolkata-17

- Geological mapping of the mafic and ultramafic rocks of CGC rocks
- Advising managerial, technical, and engineering staffs during drilling activities

Gold Exploration Geologist

Kundan Group, 2nd Floor, Scindia House, 3, Janpath, Connaught Place, Delhi

- Surveying and mapping geologically promising gold mineralization sites
- Collecting and recording samples and data
- 3D modelling and preparing reports

Assistant Professor

Department of Earth Sciences and Environment, Manav Rachana International Institute of Research and Studies, Faridabad, India

Course: Structural Geology, Metamorphic Petrology, Mineralogy and Crystallography

Teaching Assistant

Department of Geology, University of Delhi, Delhi, India Course: Structural Geology and Tectonics (Undergraduate and Postgraduate)

Project Fellow

Presidency University, Kolkata, India

Project: Monogenetic mantle xenolith bearing alkali basalic lava field from Kutch basin, Gujarat, western India: Estimation of magma ascent rate and time from study of mantle xenoliths and xenocrysts

Advisor: Prof. Arijit Ray

March 2021 to May 2022

March 2024 to Dec'24

March 2023 to March 2024

July 2017 - June 2020

June 2014 to January 2015

June 2022 to March 2023

December 2024 to present

Area of Interest

- Structural Geology and Analogue Modelling
- Geological Mapping and Field Geology
- Metamorphic Petrology
- Remote Sensing and GIS

Academic Achievements and Activities

- Member of organizing team, 5th conference on Rock Deformation and Structures (RDS-V) under the aegis of *Structural Geology and Tectonics Studies Group of India (SGTSGI)*, held at Department of Geology, University of Delhi in the year 2018
- Qualified Joint CSIR-UGC NET (National Eligibility Test for Assistant Professor) with AIR 97 in 2022
- INSPIRE Fellowship 2015, Department of Science and Technology, Government of India
- West Bengal State Scholarship 2012, Government of West Bengal, India
- INSPIRE Scholarship 2011, Department of Science and Technology, Government of India
- West Bengal State Scholarship 2009, Government of West Bengal, India

Scientific Research Publications (In Peer-reviewed Journals)

- Hatui, K., Chattopadhyay, A., Soto, H., Das, K., & Bhowmik, S. K. (2024). Pulsating orogenesis and Neoproterozoic crustal architecture in the western part of Aravalli-Delhi Mobile belt, India: new evidence from structural, metamorphic, and U-Pb zircon geochronological data. *International Geology Review*, 1-29. <u>https://doi.org/10.1080/00206814.2024.2393637</u>
- Hatui, K., & Chattopadhyay, A. (2020). Modification of pre-existing folds in a shear zone: a case study from Kumbhalgarh-Ranakpur area, South Delhi Fold Belt, Rajasthan, India. *Journal* of Earth System Science, 129 (1). <u>https://doi.org/10.1007/s12040-020-01395-z</u>
- Ghosh, N., Hatui, K., & Chattopadhyay, A. (2020). Evolution of fault patterns within a zone of pre-existing pervasive anisotropy during two successive phases of non-coaxial extension: an experimental study. *Geo- Marine Letters*. <u>https://doi.org/10.1007/s00367-019-00627-</u>6
- Ghosh, N., Hatui, K., & Chattopadhyay, A. (2019). Propagation and coalescence of en-echelon cracks under a far-field tensile stress regime: An experimental study. *Journal of Earth System Science*, 128(2), 23. <u>https://doi.org/10.1007/s12040-018-1056-7</u>
- Ray, A., Hatui, K., Paul, D. K., Sen, G., Biswas, S. K., & Das, B. (2016). Mantle xenolithxenocryst-bearing monogenetic alkali basaltic lava field from Kutch Basin, Gujarat, Western India: estimation of magma ascent rate. *Journal of Volcanology and Geothermal Research*, 312, 40-52. <u>https://doi.org/10.1016/j.jvolgeores.2016.01.015</u>

Selected Conference Abstracts:

- Hatui, K., Chattopadhyay, A., Das, K., & Bhowmik, S. K. (2021). Transpressional deformation and granite magmatism in the South Delhi Fold Belt during Neoproterozoic: new evidences from the Kumbhalgarh-Sayra-Ranakpur area, Rajasthan, India. 6th conference on Rock Deformation and Structures (RDS-VI), under the aegis of Structural Geology and Tectonics Studies Group India (SGTSGI) at Department of Geology, Central University of Kerala, India. Abstract Volume, 29.
- Hatui, K., & Chattopadhyay, A. (2020). Modification of pre-existing folds and foliations in a shear zone: example from the Ranakpur Shear Zone, South Delhi Fold Belt, Rajasthan, India. 36th International Geological Congress 2020 (IGC 2020), Delhi, India (Accepted).
- Hatui, K., Chattopadhyay, A., & Das, K. (2020). Structural Evolution of South Delhi Fold belt through geological mapping, geochronology and metamorphic study in and around Kumbhalgarh and Ranakpur area, Rajasthan, western India. IUGS-TecTask Workshop entitled "Structural Geology in the 21st century", IIT Kharagpur, India. Abstract volume, 55.
- Das, K., Hatui, K., & Chattopadhyay, A. (2019). Geochemistry and U-Pb zircon geochronology of preto post-tectonic granite emplacement across the South Delhi Fold belt, India: Implication towards the age of transpressive orogeny. *Annual Meeting of Japan Association of Mineralogical Sciences*.
- Hatui, K., & Chattopadhyay, A. (2018). Structural analysis of Ranakpur Shear Zone and South Delhi rocks in and around Kumbhalgarh and Ranakpur area, Rajasthan, western India. 5th conference on Rock Deformation and Structures (RDS-V), under the aegis of Structural Geology and Tectonics Studies Group India (SGTSGI) at Department of Geology, University of Delhi, India.
- Roy, S., Hatui, K., Ghosh, N., & Chattopadhyay, A. (2018). Fault patterns produced during two successive phases of rifting within a mechanically anisotropic zone: an experimental study. 5th conference on Rock Deformation and Structures (RDS-V), under the aegis of SGTSGI) at the Department of Geology, University of Delhi, Delhi, India. Abstract Volume, 72-73.
- Hatui, K (2016). Meso-and micro- structures and Metamorphism from South Delhi Fold Belt, Rajasthan, India: An analysis. Annual General Meeting of The Geological Society of India, IIT Kharagpur, India. Abstract Volume, 227.
- Hatui, K (2016). Polyphase folding and ductile shearing in South Delhi Fold Belt (SDFB): preliminary structural analysis from Ranakpur- Kumbhalgarh area, Southwestern Rajasthan, India.
 National Geo-Research Scholars Meet, Wadia Institute of Himalayan Geology, Dehradun, India. Abstract Volume, 52.