

CURRICULAM VITAE

Name: RAJKUMAR GHOSH
Phone: +91-8900390166
Email ID: rajkumar.ghosh.2020@gmail.com



Professional Experience

- 2021- 2022 **Organization:** Remote Sensing Application Centre, UP, Lucknow.
Designation: Project Scientist (Temporary)
Project Topic: Smart City Project
Job responsibilities: Updating data in maps using ArcGIS. Report writing
- 2015- 2021 **Organization:** Indian Institute of Technology Bombay.
Designation: Research Scholar
Project Topic: Meso and micro-scale structural evidence of Chaura thrust.
Job responsibilities: Microstructural observation, structural analysis and interpretation to understand the tectonics of Chaura area.
- 2013- 2015 **Organization:** Indian Institute of Technology Bombay.
Designation: Teaching Assistant and Junior Research Fellow.
Research Topic: Tectonics of Chaura thrusting in NW Himalaya: Insights from Chaura area (Himachal Pradesh, India).
Job responsibilities: Fieldwork in and around Chaura area for structural analysis and interpretation of Chaura thrust in Sutlej section, Himalaya
- 2012- 2013 **Organization:** Indian Institute of Technology Bombay
Designation: Temporary Junior Research Fellow.
Research Topic: Extrusion mechanism of the Sutlej section of the Higher Himalaya deduced from the thermal history and structures.
Job Responsibilities: Field study and Micro-structural observation to understand the extrusion mechanism of Higher Himalaya of Sutlej.

Education

- 2015- 2021 **Doctor of Philosophy**
Institution: Indian Institute of Technology Bombay.
Title: Meso and micro-scale structures associated with an out-of-sequence thrust at Chaura, western Himalaya, Himachal Pradesh, India.
CGPA: 9.18/10.00 (Absolute scale)
- 2010-2012 **M.Sc. Applied Geology.**
Institution: Indian Institute of Technology Bombay.
Dissertation Title: Study of drag folds in fields and analogue models.
Brief Description: This work involved drag folds development in different terrains and correlated with analogue modelling.
CGPA: 7.63/10.00 (Absolute scale)
- 2007-2010 **B.Sc. Geology (H), Chemistry, Mathematics, Environment Science.**
Institution: Presidency College, University of Calcutta, Kolkata.
Percentage: 63.125 %.

Projects/Internships/Trainings

- May, 2022 **Topic:** Engaging Youth and Adolescents in DRM and CCA
Organization: National Institute of Disaster Management, Ministry of Home affairs, Government of India.
Description: Online training on Disaster risk reduction (DRR) and climate change adaptation (CCA) for addressing the increased risk of disasters caused by climate change, viz. flooding.
- October, 2021 **Topic:** Geographic Information System
Organization: NPTEL, and IIT Kharagpur
Description: Certificate course on GIS
- September, 2021 **Topic:** Remote sensing and GIS
Organization: NPTEL, and IIT Guwahati
Description: Certificate course on remote sensing and GIS.
- July, 2021 **Topic:** Machine learning to deep learning: Remote sensing data
Organization: IIRS and ISRO, Dehradun.
- June, 2021 **Topic:** Interpreting Ground Penetrating Radar Data Part-I, Part-II
Organization: Sensors & Software Inc. Canada
Description: Special certificate course on GPR.
- April, 2021 **Topic:** GIS for Supply Chain Management.
Organization: IIRS and ISRO, Dehradun.
Description: This training program was involved in understanding and utilization of GIS for Supply Chain management.
- September, 2015 **Topic:** Field training workshop on Sedimentation, Tectonics and Quaternary landforms of Zaskar valley, Ladakh.
Organization: Department of Science and Technology, Delhi.
Brief Description: This field training program was designed to understand to the Sedimentation, Tectonics and Quaternary landforms of Zaskar Valley.
- December, 2013 **Topic:** Winter School in Geomathematics.
Organization: Wadia Institute of Himalayan Geology, Dehradun.
Brief Description: This training program was designed to understand and learning the mathematical approach in geological sciences. The mathematical derivation for describing the geological phenomena.
- October, 2013 **Topic:** Bauxite beneficiation and waste recycling in Aluminum Industry.
Organization: Indian Institute of Technology Bombay.
Description: This training was involved to discuss waste recycling in Aluminium Industry and Industrial Bauxite beneficiation process.
- 2012- 2013 **Topic:** Satellite project-3. Extrusion mechanism of the Sutlej section of the Higher Himalaya deduced from the thermal history and structures.
Organization: Indian Institute of Technology Bombay.
Description: It was a field based and lab oriented project for learning extrusion mechanism of the Sutlej section of Higher Himalaya from thermal history and structures.

- December, 2011
Topic: Study of drag folds in fields and analogue models.
Organization: Indian Institute of Technology Bombay.
Description: Detail studies of drag folds in different terrains (sedimentary and meta-sedimentary) and try to correlate the mechanisms. Data generated in geodynamic lab through analogue modelling and correlated with field data from Mumbai and Rajasthan.
- July, 2011
Topic: Uranium exploration prospect of the Chitrial outlier (Cuddapah).
Organization: Atomic Minerals Directorate (AMD), Hyderabad.
Brief Description: This intern program involved radiometric survey using scintillometer in the field and construction of geological cross section using litho-logging and gamma ray logging. Hands on training of sample preparation and for XRD, XRF, TIMS and SIMS.
- June, 2011
Topic: Exploration activities of coal mines, interpretation of litho-logs.
Organization: CMPDI, RI-IV (subsidiary of Coal India), Nagpur.
Description: This intern program involved sample collection and processing of raw data for interpretation litho-logs using MINEX software. Studied preparation of floor contouring map using limited data. Made brief interpretation of under-ground coal mining prospects of Bander coal field area, Nagpur, Maharashtra
- May, 2011
Topic: Exploration techniques, mining methodologies of Iron ore mines.
Organization: Steel Authority of India Limited, Bolani Iron Ore Mine.
Description: This program involved learning of various mining methodologies involving in extraction ore processing, ore washing and various geological settings of iron ore and environmental policies adopted by SAIL.
- December, 2010
Title: Structural mapping, structural analysis of meta-sedimentary rocks.
Organization: Indian Institute of Technology Bombay.
Description: It was a field training for understanding and learning about structural elements for geological mapping and structural analysis of meta- sedimentary rocks of Delhi Super group around Surpagla village, Sirohi district, near Ambaji, Rajasthan.
- January, 2010
Title: Stratigraphic study of Aravalli, Delhi Supergroup and Mine visit.
Organization: Presidency College, Kolkata.
Description: This field program was based on understanding of geological structures and stratigraphic correlations in the field of Aravalli and Delhi Supergroup of rock of Rajasthan and lead-zinc mine visit.
- November, 2009
Title: Structural mapping in Singhbhum Shear Zone, Galudih.
Organization: Presidency College, Kolkata.
Description: This field program was based on structural mapping and interpretation of highly deformed terrain of Singhbhum Shear Zone near Galudih, Jharkhand.