

SOMALIN NATH

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Objective

A position where my expertise in the field of Geosciences, Disaster Management, Hydrology and Mineral Exploration would be needed.

Experience

Institute Name	From	To	Designation Held
Indian Institute of Remote Sensing, Dehradun, Uttarakhand	19 March, 2014	18 March, 2019	Senior Research Fellow
GEO-ENVIRONMENTAL SERVICES, HIG-407, K-5 Kalinga Vihar, Near Shiv Temple, Bhubaneswar, Odisha	01 June 2019	Till date	Geologist cum GIS Specialist

Education

Examination	Board/University	Year	Class/ division	% of marks	Subjects with specialization
SSE	CBSE	2004	1	66.80	SANS, ENG, MATH, SC & TECH, SOC SCI
HSE	CHSE	2006	2	56.66	PHY, CHEM, MATH, GEOLOGY
B SC	UTKAL UNIVERSITY	2009	1	80.50	GEOLOGY (HONS) PHYSICS (PASS) MATH (MAJOR)
MSC	SAMBALPUR UNIVERSITY	2011	1	84.50	APPLIED GEOLOGY
M.TECH	ISM, DHANBAD	2013	1	85.80	MINERAL EXPLORATION
PhD	IIT(ISM) DHANBAD	Submitted	-	-	Crustal deformation and active tectonics of the Northwestern Himalaya in Uttarakhand and Himachal Pradesh, India

Professional Training

Training at Mineral Exploration Corporation Limited, project at Sayang Dist., Korba from 21. 05. 2012 to 02. 06. 2012 on mapping and exploration of coal.

Research Experience

- * Research in field of Geodynamic and crustal deformation analysis in NW Himalaya using various satellite data products and field survey (DGPS and Geophysical: GPR and Seismic)
- * Taking lectures and practical class of M.TECH students (RS & GIS specialization in Geosciences).

Research Publications:

a. Chapters/ Papers:

1. Chatterjee R. S., **Nath S.**, Kumar G., 2019. Morphotectonic Analysis of the Himalayan Frontal Region of Northwest Himalaya in the Light of Geomorphic Signatures of Active Tectonics, DOI: 10.1007/978-981-13-2128-3_2, In book: Remote Sensing of Northwest Himalayan Ecosystems.
2. **Nath S.**, Chatterjee R. S., Mohanty S. and Kumar G., 2019. Comparative evaluation of active tectonics in parts of frontal region of NW Himalaya, India by geomorphic analysis and geophysical investigation, JOURNAL GEOLOGICAL SOCIETY OF INDIA, Vol.94, pp.197-205.
3. **Nath S.**, Chatterjee R. S. and Mohanty S., Sharma A., Prasad A. V., 2021. Analysis of the Maximum Principal Stress Directions in the Himalayas: A Remote Sensing Based Approach, Journal of Geotectonics, Vol 55(1), pp. 83 – 93.
4. **Nath S.**, Kumar H., Mohanty S. P., Chatterjee R. S., Choudhury P. 2019. Subsurface fault study in frontal part of NW Himalaya using Ground Penetrating Radar technique, IERJ (E-ISSN: 2454-9916), accepted.
5. Chatterjee R. S., **Nath S.**, Vatsa H., Rawat A., Mohanty S.P., Kumar D., Patel R. C., WNW-ESE Piedmont Faults in the Foothills of North West Himalaya, India and their Tectonic Significance as Inferred from Geomorphic Signatures, Geophysical Investigation and Spaceborne Geodetic Observation, under review.
6. **Nath S.**, Prasad A. V., Chatterjee R. S., Mohanty S.P. Crustal deformation associated with 2019 Kashmir earthquake using DInSAR technique, under review.
7. **Nath S.**, Ghosh S., Chatterjee R. S., Mohanty S.P., Mukherjee M. K., Vatsa H., Tectonic controls on shallow subsurface faults aided by ground based radar techniques along the frontal part of the NW Himalaya, under review.

b. Conferences/ Workshop Attended:

1. Nath S., Chatterjee R. S. and Mohanty S. 2016. L- Band ScanSAR Interferometry for crustal deformation study in Western Himalaya, National Symposium on Recent Advances in Remote Sensing and GIS with Special Emphasis on Mountain Ecosystems.
2. Nath S., Chatterjee R.S., Mohanty S. and Champati ray P.K. 2016. Geomorphic indicators coupled with GPR for active tectonic study in piedmont region, Developments in Geosciences in the Past Decade – Emerging Trends for the Future & Impact on Society & Annual General Meeting of the Geological Society of India, pp- 308-310.
3. Nath, S., Kumar, R., Chatterjee, R. S., and Champati ray, P. K. 2015. Deformation analysis of Nepal earthquakes, Proceedings of 30th HKT workshop, 6-8 Oct 2015, Wadia Institute of Himalayan Geology, Dehradun, India, pp. 157-158.
4. Champati ray, P.K., Sharma, G., Chatterjee, R.S., Senthil, A. K., Nath, S., and Sharma, A. 2015. Nepal earthquake: Earth Observations for geodynamics and hazard mitigation, at ISPRS TC VIII/WG-1, 17th Dec., 2015, Jaipur.
5. Nath, S., Mohanty, D., Singh, A., K. and Mohanty S., P., 2013. An estimate of coal seam gas resource of Parbatpur block, Jharia coalfield, India. Annual General Meeting (AGM) of the Geological Society of India and International Conference on “Future Challenges in Earth Sciences for Energy & Mineral Resources” (ESEMR 2013), Dhanbad, India, ESEMR 2013, pp.167. doi: 10.13140/RG.2.1.4663.3122

Technical Skills

- * Software: ArcGIS, ERDAS, ENVI, SARscape, SNAP, SARPROZ
- * Field Instruments: DGPS, GPR, Engineering Seismogram, IP Resistivity

Membership

- * Life Member of Himalayan Geology

Awards

- * Gold medal in MSc

Personal Profile

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Correspondence Address : At- Baghuatheng, Po- Taladanda,
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Date of Birth : 15th September, 1988
Gender : Female
Nationality : Indian
Marital Status : Unmarried
Languages Known : English, Hindi, Odia

Declaration

I do hereby declare that the above information furnished by me is true upto the very best of my knowledge.



(SOMALIN NATH)

References:

Dr. R. S. Chatterjee,
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