

CURRICULUM VITAE

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QUALIFICATION PROFILE

Present Position	: Assistant Professor, Department of Earth Sciences, IIT Roorkee, Roorkee-247667, Uttarakhand
Teaching Experience	Continuing teaching to undergraduate and post graduate students Courses teaching: Geology of Petroleum, Plate Tectonics, Stratigraphy and Geology of India, Basic Geology, Physical Geology Courses Developed: Basin analysis, Advance Geomorphology, Quaternary Geoscience
Research Publications	Published Paper <ol style="list-style-type: none">1. Raju, A., Singh, A., Kumar, S. and Pati, P. 2016. Temporal monitoring of coal fires in Jharia Coalfield, India. Environmental Earth Sciences, 75. 12, 1-15.2. Singh, A., Raju, A., Pati, P. and Kumar, N. 2016. Mapping of coal fire in Jharia Coalfield, India: A remote sensing based approach. Journal of Indian Society of Remote Sensing, 1-8.3. Pati, P., Pradhan, R. M., Dash, C., Parkash, B. and Awasthi, A. K. 2015. Terminal fans and the Ganga plain tectonism: A study of neotectonism and segmentation episodes of the Indo-Gangetic foreland basin, India. Earth-Science Reviews, 148, 134-149.4. Khan, M. S. H., Haque, M. M., Pati, P., Chowdhury, K.

	<p>R. and Biswas, S. 2015. OSL derived uplift rate of Dakhin Nhila anticline along the southeastern coast of the Bay of Bengal, Bangladesh. Himalayan Geology, 36(2), 143-152.</p> <p>5. Pati, P., Parkash, B., Awasthi, A. K. and Jakhmola, R. P. 2012. Spatial and temporal distribution of inland fans/terminal fans between the Ghaghara and Kosi rivers indicate eastward shift of neotectonic activities along the Himalayan front. A study from parts of the upper and middle Gangetic plains, India. Earth-Science Reviews, 115(4), 201-216.</p> <p>6. Parkash, B., Rathor, R. S., Pati, P., Jakhmola, R. P. and Singh, S. 2011. Convergence rates along the Himalayan frontal thrust inferred from terraces at Chandidevi Temple Hill, Hardwar, Northwestern Himalaya. Current Science, 100(9), 1426-1432.</p> <p>7. Pati, P., Parkash, B., Awasthi, A.K., Acharya, V. and Singh, S. 2011. Concealed thrusts in the Middle Gangetic plain, India—a ground penetrating radar study proves the truth against the geomorphic features supporting normal faulting. J. Asian Earth Sci. 40 (1), 315–325.</p> <p>8. Pati, P., Parkash, B., Awasthi, A.K. and Acharya, V. 2011. Holocene tectono-geomorphic evolution of parts of the Upper and Middle Gangetic plains, India. Geomorphology, Vol. 128 (3), 148–170.</p> <p>9. Bhosle, B., Parkash, B., Awasthi, A. K. and Pati, P. 2009. Use of digital elevation models and drainage patterns for locating active faults in the Upper Gangetic Plain, India. International Journal of Remote Sensing, 30(3), 673-691.</p>
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	<p>10. Sinha, V. P., Nathan, N. P., Mishra V. P., Gupta, P., Guha, D.B., Ravi, S., Chakravorty, S., Sai. V.V.S, Rao, S.S., Sarkar S. S., Roy, B., Pankaj, P., Pati, P., Dasgupta, S. Sadhna and Konglah, M. A., 2009. Geology and Mineral Resources of India, Geological Survey of India, Mis. Pub. 30, Part- XXII.</p> <p>11. Khan, M.S.H., Biswas, S., Singh, S. and Pati P. 2006. OSL Chronology of Dihing Formation and Recent Upliftment Rate Along the Dauki Fault, NE Bangladesh, Bangladesh Geoscience Journal, Vol. 12, 1-11.</p> <p>Conference Paper</p> <p>1. Verma, A.K. and Pati, P. 2016. Relative chronological shift of the geomorphic processes across the Sone megafan in the Southern Ganga plain: An evidence from fluvial geomorphology. National Geo-Research Scholar Meet-2016.</p> <p>2. Sharma, V. and Pati, P. 2016. Autoclastic mass flow in the eastern margin of the Pranhita-Godavari Basin: An indicator of basin margin faulting. National Geo-Research Scholar Meet-2016.</p> <p>3. Verma, A.K. and Pati, P. 2016. Neotectonically controlled block tilting and its influence on drainage and soil characteristics of the Sone megafan: A study of the Himalayan tectonics to the south of the Ganga River. 35th International Geological Congress 2016. (Accepted)</p> <p>4. Raju, A., Singh, A., Pati, P. and Solanki, J. N. 2016. Temporal monitoring of coal fires from space: A case study in Jharia Coalfield, India. 35th International Geological Congress 2016. (Accepted)</p> <p>5. Pradhan, R M., and Pati. P. 2015. Neotectonic influence on</p>
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	<p>geomorphology in the Gandak megafan of the Indo-Gangetic foreland basin, India. American Geophysical Union Conference.</p> <p>6. Parkash. B., Rathore. S. and Pati. P. 2012. Strong Coupled and Segmented Nature of the Himalaya and the Adjoining Gangetic Foreland Basin. EGU General Assembly Conference Abstracts, Vol. 14, Pages 52-32.</p>
Project Handling	<p>“Neotectonically controlled coastal subsidence along parts of Odisha coast: A study of future of Indian East Coast” sponsored by IIT Roorkee</p>
Work experience	<p>: Presently working as an Asst. Professor, in the Department of Earth Sciences, IIT Roorkee since 31st December 2012</p> <p>As a geologist in Geological Survey of India (2008-2012) worked in Specialized thematic mapping and mineral exploration in the Precambrian Bastar craton and Gondwana basin in central India</p> <ol style="list-style-type: none"> 1. Tectono metamorphic evolution of the western Bastar Craton, Chandrapur district, Maharashtra (2010-2011) 2. Specialized Thematic mapping of Pegmatite bodies in selected sectors of the Sausar Mobile belt (2011-2012) 3. Thematic mapping of Archean Gneiss Terrain, Western Bastar Craton, in Chimur-Neri-Nawargaon area, Chandrapur District, Maharashtra: In Archean-Proterozoic baubary (2012-13)
Research Experience	<p>: Worked as a senior research fellow (SRF) in the field of Sedimentology and basin analysis from 2006 to 2008</p> <p>Worked in the DST sponsored projects “Paleo seismology of the Upper Gangetic Plain” and “Neotectonic activities of Haryana state” during 2004-2006</p>
Training & other professional courses attended	<p>Undergone training</p> <ol style="list-style-type: none"> 1. International Field Workshop on Marwar Supergroup, Rajasthan (20th to 28th January-2014) organized by The

	<p>Society of earth Sciences, India</p> <ol style="list-style-type: none"> 2. “Modern Practices in Petroleum Exploration” organized by KDMIPE, ONGC Dehradun (9th-12th September-2013) 3. Training program on “Organizational behavior and development of leadership qualities conducted by Institute of Management Technology, Nagpur since 09/07/2012 to 14/07/2012 4. Refresher course on Specialized thematic mapping conducted by the Geological Survey of India Training Institute since 25/08/2011 to 14/09/2011 5. Orientation Course for Geologist conducted by Geological Survey of India Training Institute since 5th October 2009 to 25th September-2010 6. “Conceptual modeling in mineral exploration” from 22/08/2012 to 28/08 2012 conducted by Regional Training Institute, Geological Survey of India, Central Region, Nagpur
Ph.D.	: Ph.D. in the theme “Basin tectonics” in the Department of Earth Sciences, Indian Institute of Technology Roorkee in 2008