

Curriculum Vitae

Dr. Abhishek R. Lakhote

Post-Doctoral Fellow

Institute of Earth Sciences

Academia Sinica, Nangang, Taipei, Taiwan

Research Gate: <https://www.researchgate.net/profile/Abhishek-Lakhote>

Google Scholar: <https://scholar.google.com/citations?user=pF040VsAAAAJ&hl=en>

Research Interest:

- Active Tectonics, Quaternary Geology
 - Paleoseismology, Geomorphology
 - Structural Geology, Tectonic Settings of Kachchh Basin, NW Himalaya, NE Himalaya.
 - Remote Sensing and GIS (PSI, DInSAR, InSAR, Time Series Analysis)
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Achievements:

- ★ Worked as an 'Associate Project Scientist' (Temporary post) at Department of Civil Engineering, IIT Guwahati, in the project "Real-time monitoring of water quality and quantity using geospatial technology" for the period of two months (01/06/2022-31/07/2022).
 - ★ Awarded Ph.D. degree on the topic entitled as "Active Fault Mapping and Paleoseismic investigation along South Wagad Fault Zone of Kachchh Basin: An approach to seismic hazard assessment in western continental margin of India" at KSKV Kachchh University, Bhuj, Kachchh (25/01/2019-18/05/2022).
 - ★ Awarded SHODH-ScHeme of Developing High quality research - MYSY Fellowship sponsored by Government of Gujarat, India to carry out research work during Ph.D. career at KSKV Kachchh University (01/08/2021-30/04/2022).
 - ★ Selected as Senior Research Fellow under 14-12-2015 vide letter no. MoES/P.O.(Seismo)/1(270)/AFM/2015 (Component V) entitled as "Mapping of the South Wagad Fault (SWF), Delineation of Neotectonic events and resulting landscape evolution of the SWF in the Kachchh basin" from 01-10-2019 to 31-07-2021.
 - ★ Selected as Junior Research Fellow under 14-12-2015 vide letter no. MoES/P.O.(Seismo)/1(270)/AFM/2015 (Component V) entitled as "Mapping of the South Wagad Fault (SWF), Delineation of Neotectonic events and resulting landscape evolution of the SWF in the Kachchh basin" from 01-10-2017 to 30-06-2019.
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Education:

2019-2022	<u>Ph.D.</u> from Department of Earth and Environmental Science, KSKV Kachchh University, Bhuj, Kachchh, Gujarat, India Thesis Title: "Active Fault Mapping and Paleoseismic investigation along South Wagad Fault Zone of Kachchh Basin: An approach to seismic hazard assessment in western continental margin of India". Ph.D. Supervisor: Prof. M.G. Thakkar, (HOD, Department of Earth and Environmental Science, KSKV Kachchh University, Bhuj).
2015-2017	<u>M.Sc. (Geology)</u> from Department of Earth and Environmental Science, KSKV Kachchh University, Bhuj, Kachchh, Gujarat, India. Dissertation Title: "Mapping of Structural and Morphotectonic Features of Keera Dome, Western Kachchh". (Percentage: 74.00%). Supervisors: Prof. M.G. Thakkar (Department of Earth and Environmental Science, KSKV Kachchh University, Bhuj), and Dr. Girish Ch Kothiyari (Associate Professor, UPES, Dehradun).
2012-2015	<u>B.Sc. (Geology)</u> from K.J. Somaiya college of Science and Commerce, University of Mumbai. (CGPA= 5.16/8).
2011-2012	<u>H.Sc. (Science)</u> from S.V. Joshi college of Science and Commerce, Maharashtra State Board. (Percentage= 63.17%)
2009-2010	<u>SSC</u> form S.V. Joshi High School, Maharashtra State Board. (Percentage= 84.36%).

Publications: Citations: 184, h-index= 09, i10 index= 10(Google Scholar), Total IF: 30.976.

Published/accepted in SCI Journals:

- ✦ Lakhote, A., Thakkar, M. G., Kandregula, R. S., Jani, C., Kothiyari, G. C., Chauhan, G., & Bhandari, S. (2021). Estimation of active surface deformation in the eastern Kachchh region, western India: Application of multi-sensor DInSAR technique. *Quaternary International*, 575, 130-140. (IF:2.454).
- ✦ Lakhote, A., Thakkar, M. G., Kandregula, R. S., Kothiyari, G. C., & Chauhan, G. (2021). Active tectonics of eastern segment of the south Wagad Fault zone, Kachchh, western India. *Quaternary International*, 599, 223-234. (IF: 2.454).
- ✦ Kandregula, R. S., Kothiyari, G. C., Swamy, K. V., Kumar Taloor, A., Lakhote, A., Chauhan, G., Thakkar, M. G., Pathak, V., & Malik, K. (2021). Estimation of regional surface deformation post the 2001 Bhuj earthquake in the Kachchh region, Western India using RADAR interferometry. *Geocarto International*, 1-29. (IF: 4.889).
- ✦ Thakkar, M. G., Kothiyari, G. C., Jani, C., Chauhan, G., Lakhote, A., & Taloor, A. K. (2021). Time assessment of tectonic and climatic forcing on the formation of Khari

bedrock gorge, Kachchh, western India: a mathematical approach. *Quaternary International*, 575, 328-337. (IF: 2.454).

- ✦ Kothiyari, G. C., Kandregula, R. S., Kotlia, B. S., Lakhote, A., Swamy, K. V., Pathak, V., Chauhan, G., and Thakkar, M. G. (2020). Palaeoseismic investigations along the Kachchh Mainland Fault: A comprehensive review and new insights of the past earthquakes in the Kachchh basin, western India. *Quaternary International*. 599, 184-209. (IF: 2.454).
- ✦ Kandregula, R. S., Kothiyari, G. C., Chauhan, G., Pancholi, V., Swamy, K. V., Lakhote, A., Mishra, S., and Thakkar, M. G. (2020). Evaluating the seismic hazard in the Kachchh Region, western India using the river gradient length anomaly technique. *Journal of Earth System Science*, 129(1), 1-18. (IF: 1.912).
- ✦ Sharma, S., Chauhan, G., Shukla, A.D., Nambiar, R., Bhushan, R., Desai, B.G., Pandey, S., Dabhi, M., Bhandari, S., Bhosale, S., Lakhote, A., and Juyal, N. (2020). Causes and implications of mid to late Holocene relative sea-level change in the Gulf of Kachchh, western India. *Quaternary Research*. 100, 98-121. (IF: 2.198).
- ✦ Thakkar, M. G., Chauhan, G., Shah, Y., Jani, C., Chavda, B., Lakhote, A., Bhosale, S., Mistry, C. P. (2020). Nepheline syenite and related rocks at Meruda Takkar hill, northern Kachchh: Neoproterozoic Malani basement or Mesozoic alkaline magmatism? *Journal of Earth System Science*. 130(1), 1-15. (IF: 1.912).
- ✦ Bhosale, S., Chaskar, K., Pandey, D. K., Lakhote, A., Thakkar, A., Chauhan, G., Bhandari, S., & Thakkar, M. G. (2021). Jurassic geodiversity and geomorphosite of Kanthkot area, Wagad, Kachchh, western India. *International Journal of Geoheritage and Parks*, 9(1), 51-68. (IF: 2.68).
- ✦ Jani, C., Kundregula, R. S., Bhosale, S., Chavan, A., Lakhote, A., Bhandari, S., Kothiyari, G. C., Chauhan, G., Dumka, R., Suri Babu, Thakkar, A., Taloor, A., Gor, A., & Thakkar, M. G. (2021). Delineation of tectonically active zones in the Island Belt Uplift region, Kachchh Basin, western India: A geomorphic and geodetic approach. *Quaternary Science Advances*, 4, 100034. (IF: 1.923).
- ✦ Padder, A.H., Nandy, S., Kothiyari, G.C, Jani, C., Lakhote, A., Kandregula, R.S., Joshi, N., Taloor, A.K., Chauhan, G., and Thakkar, M.G. (2022). Geomorphometric Appraisal for Seismic Hazard Assessment in the Chenab River Basin of the NW Himalayas, India. *Geotectonics*, 1-30. (IF: 1.142).
- ✦ Jani, C., Bhandari, S., Kothiyari, G., Lakhote, A., Chauhan, G., and Thakkar, M.G. (2022). Paleostress analysis and reconstruction of tectonic stress variations since Gondwana breakup in the Island Belt Fault Zone, Kutch basin, India. *Journal of Asian Earth Sciences*, 105522. (IF: 3.449).
- ✦ Goswami, A., Gor, N., Borah, A.J., Chauhan, G., Saha, D., Kothiyari, G.C., Barpatra, D., Hazarika, A., Lakhote, A., Jani, C. and Solanki, J., (2023). Groundwater potential zone demarcation in the Khadir Island of Kachchh, Western India. *Groundwater for Sustainable Development*, 20, p.100876. (IF: 1.543).

- ✦ Jani, C., Bhandari, S., Kothiyari, G. C., Lakhote, A., Chauhan, G., & Thakkar, M. G. (2023). Paleostress analysis and reconstruction of tectonic stress variations since Gondwana breakup in the Island Belt Fault Zone, Kutch Basin, India. *Journal of Asian Earth Sciences*, 243, 105522. (IF: 3.449)
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Software's Experiences:

- ✦ Experience in handling Arc GIS, Arc GIS Desktop, Q GIS, Surfer, Global Mapper, Coral Draw, Envi tool, GAMMA, SNAP tool, SAR Proz, SAR Scape, SHARP+, Win-tensor, and River Tool.
 - ✦ Experience in coding language C++, PYTHON, MATLAB, Windows subsystem for LINUX using Cygwin, Ubuntu etc.
 - ✦ Advance Knowledge about core samples studies, sample analysis, Total Station Survey, DGPS Survey, Real-time Kinematic analysis, OSL sampling, XRF and XRD.
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Research Projects Handled:

- ✦ "Mapping of the South Wagad Fault (SWF), Delineation of Neotectonic events and resulting landscape evolution of the SWF in the Kachchh basin" under 14-12-2015 vide letter no. MoES/P.O.(Seismo)/1(270)/AFM/2015 (Component V) sponsored by Ministry of Earth Science (MoES) (2017-2021).
 - ✦ "Detailed mapping of the Tectono-Geomorphological features along the Island Belt Fault zone including Neotectonic Evolution of the IBF" under 14-12-2015 vide letter no. MoES/P.O.(Seismo)/1(270)/AFM/2015 (Component VIII) sponsored by Ministry of Earth Science (MoES) (2017-2021).
 - ✦ "Challenges for Science and Technology Education during coming Decades: Preparing for a Sustainable Gujarat". XXX Gujarat Science Congress-2016.
 - ✦ "Eco Media Lab Workshop (Eco Next connect) that is being organised on 28th and 29th November, 2018". NCSTC programme.
 - ✦ Field Assistant in the project titled as "Restoration of the main wood fossil at Wood Fossil Park near Dholavira, Kahdir, Kachchh (Gujarat) for 60 days (November-December 2021)."
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Seminars/Workshops/Trainings Attended:

- ☆ Worked in organization committee and attended in XXX Gujarat Science Congress-2016 on "Challenges for Science and Technology Education during coming Decades: Preparing for a Sustainable Gujarat" on 6th and 7th February 2016. At KSKV Kachchh University Bhuj.
- ☆ Attended "Brain Storming Session" (BSS) on Geology of Kachchh on 8th February 2016.

- ★ Participated in NCSTC programme "Mission Eco Next" in the Eco Media Lab Workshop (Eco Next connect) that is being organised on 28th and 29th November at Court Hall of the University.
 - ★ Attended and participated in one-week workshop as Research Scholar entitled as "Microwave Remote Sensing Applications in Geosciences with Emphasis on Surface Deformation Studies" at Indian Institute of Remote Sensing, Kalidas Road, Dehradun (2019).
 - ★ Attended "Workshop on Luminescence Dating: Methodology and Applications, held at CSIR - National Geophysical Research Institute (CSIR-NGRI), Hyderabad, India on 07-13 December 2019."
 - ★ Attended virtual training program on "Fundamentals of Aero geophysical Survey", conducted by Geophysics Division of GSI Training Institute, Hyderabad from August 04-06, 2021 held at CSIR - National Geophysical Research Institute (CSIR-NGRI), Hyderabad, India.
 - ★ Attended online Training Programme at CSIR-NGRI on "Seismological Data Analysis and its Applications" from January 04-16, 2021 held at CSIR - National Geophysical Research Institute (CSIR-NGRI), Hyderabad, India.
 - ★ Attended and actively participated in Special course "Ground-based Subsurface Imaging for Enhanced Earth Observation Applications in Geosciences". held on 13-17 June 2022.
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Teaching Experience:

Academic:

- Experience in teaching subjects like Quaternary Geology, Structural Geology, Remote Sensing and GIS, Stratigraphy etc. to Graduation and Post-graduation students at Department of Earth and Environmental Science, KSKV Kachchh University, Bhuj, Kachchh (2017-2022).
- Guided more than ~30 M.Sc. students during their dissertation projects in several subjects like Active tectonics, Paleoseismology, Structural Geology, Remote Sensing and GIS software's.

Field Expedition:

- Guided more than ~250 students from different institute and universities during the field visit to Kachchh Basin and Aravalli Basin.
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I hereby declare that all the statements made in this are true and complete to the best of my knowledge and I bear the responsibility for the correctness of the above-mentioned particulars.

Resume of Dr. Abhishek R. Lakhote

Date: 22/08/2022

Place: Mumbai

A handwritten signature in black ink, appearing to read 'Abhishek R. Lakhote', with a horizontal line underneath.

Dr. Abhishek R. Lakhote