

Dr. Aditya Udayraj Joshi

Curriculum Vitae



Nationality: Indian

Born: August 08, 1988

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Summary:

Dr. Aditya Udayraj Joshi, is an Assistant Professor of Geology in the Department of Civil Engineering, Manipal Institute of Technology, MAHE, Institution of Eminence, Manipal, Karnataka, India. His specializations are Structural Geology and Microtectonics. As a part of his doctoral work he has extensively studied the poly-phase deformational history of the Champaner Group, Aravalli SuperGroup, exposed in Eastern Gujarat. An important finding of his work has given an insight to access the surface and sub-surface deformational pattern pertaining to the southernmost boundary of the Aravalli Mountain Belt. He has also worked on Godhra granites to decode a relationship between pluton emplacement and regional deformation. Dr. Joshi has published many articles in various reputed international and national journals. He has also published one book as an editor and three book chapters with publisher like Elsevier and Springer. He has been participating in many academic conferences across India by demonstrating his research work in the form of presenting papers. He has been invited as a guest speaker/ faculty at many premier institutions like ONGC, Western region; Goa University; KSKV Kachchh University, Bhuj; CEPT University, Ahmedabad, Bundelkhand University, Jhansi, Somaiya Collage, Mumbai University, Government Collage Kottayam, Kerala etc.

Area of Interest: Structural Geology, Micro-tectonics, Igneous and Metamorphic Petrology

Area of Expertise: Structural Geology, Micro-tectonics, Igneous and Metamorphic Petrology

Area of Research: Structural Geology, Micro-tectonics, Igneous and Metamorphic Petrology

Education: *Doctor of Philosophy (Ph.D.) in Geology (specialization – Structural Geology), 2020* – The Maharaja Sayajirao University of Baroda, Ph.D. Thesis Title: Structural Evolution of Pre-Cambrian rocks of Champaner Group, Gujarat, Western India. Ph.D. Guide: Prof. Manoj A. Limaye

Master of Science (M.Sc.) in Geology, 2013 – The Maharaja Sayajirao University of Baroda.

Bachelor of Science (B.Sc.) in Geology, 2011 - The Maharaja Sayajirao University of Baroda.

Appointments: June 2021 – Present: Assistant Professor, Manipal Institute of Technology, Manipal Academy of Higher Education, Institution of Eminence, Manipal, 576 104. Karnataka.

June 2017 – June 2021: Assistant Professor (Temp.), The Maharaja Sayajirao University of Baroda, Vadodara – 390002. Gujarat.

Jan 2017 – May 2017: Worked as Consultant Geologist in Uttarakhand Landslide project under Uttarakhand Disaster Recovery Project (UDRP).

Nov 2013 – Dec 2016: DST PURSE Fellow, The Maharaja Sayajirao University of Baroda, Vadodara – 390002. Gujarat.

Sept 2013 – Oct 2013: Project Fellow, UGC Major Research Project (F. No. 39-131/2010 (SR), The Maharaja Sayajirao University of Baroda, Vadodara – 390002. Gujarat.

List of Published Research Articles:

- **Joshi A. U., Limaye M.A. (2020)** Anisotropy of Magnetic Susceptibility (AMS) Studies on Quartzites of Champaner Group, Upper Aravallis: An Implication to Decode Regional Tectonics of Southern Aravalli Mountain Belt (SAMB), Gujarat, Western India, T. K. Biswal et al. (eds.), **Structural Geometry of Mobile Belts of the Indian Subcontinent, Society of Earth Scientists Series, Springer Nature Switzerland** https://doi.org/10.1007/978-3-030-40593-9_9.
- **Aditya Joshi, M.A. Limaye and Bhushan S. Deota (2019)** “Fish-hook” shape intrafolial fold train in quartzite–metapelite band, Lunavada region, NE Gujarat, western India. **International Journal of Earth Sciences, 108 (1), pp. 183-186.**
- **Aditya U. Joshi (2019)** Fold Interference patterns in Meso-Proterozoic Champaner Fold Belt (CFB) Gujarat, Western India. **Journal of Earth System Science. 128 (3), 48.**
- Akolkar G., **Joshi A.U., Limaye M.A., Deota, B.S. (2018)** Implication of Godhra granite emplacement on calc-silicate rocks of Lunavada region, NE Gujarat., **Journal of Geoscience Research, 3 (1), pp. 1-12.**
- **Aditya U. Joshi and M.A.Limaye (2018)** Rootless calc-silicate folds in granite: An implication towards syn to post plutonic emplacement. **Journal of Earth System Science. 127 (5), 67.**
- **Aditya U. Joshi, Dhananjay A. Sant, Imtiyaz A. Parvez, Govindan Rangarajan, Manoj A. Limaye, Soumyajit Mukherjee, Mitesh J. Charola, Meghnath N. Bhatt and Sagar P. Mistry (2018)** Subsurface profiling of granite pluton using microtremor method: southern Aravalli, Gujarat, India. **International Journal of Earth Sciences, 107 (1), pp. 191-201.**
- **Aditya Joshi, M.A.Limaye and Bhushan S. Deota (2016)** Microstructural indicators of post-deformational brittle-ductile shear zones, Lunawada region, Southern Aravalli Mountain Belt, Gujarat, India. **Journal of M.S.U.S.T, 51(1), pp.19-27.**

- Dhrumil Patel, **Aditya Joshi** and M.A.Limaye (2016) Sequential development of microstructures in Quartzites of Champaner Group, Gujarat: An Implication of Godhra Granite. **Journal of Geosciences Research**, 1 (2), pp. 101-104.
- **Aditya Joshi** and M.A.Limaye (2014) Evidences of Syn-deformational granitoid emplacement within Champaner group, Gujarat. **Journal of M.S.U.S.T**, 49 (1), pp.45-54.
- **Aditya Joshi**, M.A.Limaye and Bhushan S. Deota, (2014) Structural foot prints extraction from rocks of Lunawada region, Gujarat through IRS LISS III data. **Journal of Geomatics**, 8 (2), pp.170-173.
- **Aditya Joshi**, M.A.Limaye and Bhushan S. Deota (2013) A model representing successive deformational events of Ankalwa Synform, Lunawada Group, Gujarat. **Gondwana.Geological.Magazine, Nagpur**, 28 (1), pp.53-56.

Books and Book Chapters:

- **Aditya U. Joshi** (2021) A 3D Photogrammetric Approach in Mapping Meso-Scale Folds and Shears in Structurally Controlled Syngenetic Mn-Mineralised Zones of Shivrajpur Region, Eastern Gujarat, India. Soumyajit Mukherjee (Eds) **Structural Geology and Tectonics Field Guidebook, Springer. v.1; Ch. 23, Pp. 685-706.**
- **Aditya U. Joshi** and M. A. Limaye (2021) A Field Guide to the Champaner Region, Southern Aravalli Mountain Belt (SAMB), Gujarat, Western India. Soumyajit Mukherjee (Eds) **Structural Geology and Tectonics Field Guidebook, Springer. v.1; Ch. 18, Pp. 529-576.**
- S. Mukherjee, N. Bose. R, Ghosh, D. Dutta, A. Misra, M. Kumar, S. Dasgupta, T. Biswas, **A. Joshi, M. Limaye. (2020) Structural Geological Atlas, Springer, 623p.**

Miscellaneous Publications:

- **Photograph of the month (POTM) published in January 2018 (Vol. 91, No.1) of Geological Society of India:** Title of the cover page photo as, “Chiasmolite-Andalusite variety encompassing alkali metasomatism within the Champaner Group, Gujarat, western India” authored by, “**Aditya U. Joshi; M.A.Limaye and Bhushan S. Deota**”.
- Published four photomicrographs in **Atlas of Structural Geology (Elsevier, 2015).**

Awards and Recognitions:

- Invited as a **Key note speaker** to deliver a talk on, “13 vital Q’s before visiting Champaner: A Geo-Architectural approach” at **CEPT University, Ahmedabad.**
- Invited as a **Teaching Faculty** to participate in the one day field trip to Champaner, Vadodara district on 20th January 2018, with more than 100 executives and members of **Association of Petroleum Geologists (APG) and Society of Petroleum Geophysicists (SPG); Organised by Oil and Natural Gas Corporation (ONGC).**

- Invited as a **Young Researcher Faculty** to conduct one day structural field workshop on 18th March 2017, for the post graduate students of **Department of Earth Sciences, Goa University.**
- **Best presentation award in Science Conclave 2017** in Earth Science category on 28th Feb 2017, held at the Faculty of Science, **The Maharaja Sayajirao University of Baroda, Vadodara. 390002. Gujarat.**
- **Best Paper and Presentation award in Geoyouth-2013** ‘4th All India students symposium on Geology’ from 15th Feb to 16th Feb 2013, held at **Department of Geology, Mohanlal Sukhadia University, Udaipur, Rajasthan.**

Geological Fieldwork Resource-Person:

- Acted as field work resource person/ field instructor for Under-Graduate and Post-Graduate students/ officers of various universities and premier institutions, viz. ONGC, Western region, Baroda; Goa University; KSKV Kachchh University, Bhuj; Bundelkhand University, Jhansi; Somaiya Collage, Mumbai University; Government Collage Kottayam, Kerala etc.

Conferences Attended as well as Presented:

(1) 5th Conference and Workshop on Rock Deformation and Structures (RDS-V); held at Department of Geology, University of Delhi, Delhi, from 4th to 6th October, 2018.

(2) Science Conclave 2017; held at the Faculty of Science, The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat, on 28th Feb 2017.

(3) DST PURSE Sponsored National Seminar on Recent Scenario in Science and Technology (RSST-2016); held at the Faculty of Technology and Engineering, The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat, on 27th Feb 2016.

(4) XXX Gujarat Science Congress – 2016 on „Challenges for Science and Technology Education During Coming Decades: Preparing for a Sustainable Gujarat“ Jointly organized by K.S.K.V Kachchh University and Gujarat Science Academy; held at K.S.K.V Kachchh University on 6th and 7th Feb 2016.

(5) National Geo-Research Scholars Meet 2016; held at Wadia Institute of Himalayan Geology, Dehradun from 1st to 4th June 2016.

(6) Developments in Geosciences in the past decade- emerging trends for the future and impact on society and Annual General Meeting of the Geological Society of India; held at the Indian Institute of Technology Kharagpur (India) from 21st to 23rd Oct 2016.

(7) GUJCOST sponsored one day National Seminar on Ethics and Plagiarism in Academic Research (EtPAR – 2015); Organised by Pharmacy Department, Faculty of Technology and Engineering, The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat on 24th Aug 2015.

(8) XXIX Gujarat Science Congress – 2015; organized by Gujarat Science Academy; held at Science City, Ahmedabad on 28th Feb and 1st March 2015.

(9) National Seminar on Rock Deformation and Structures (RDS – III); Under the aegis of Structural Geology and Tectonic Studies Group – India; Organised by Department of Applied Geology, Dibrugarh University, Assam, from 29th to 31st Oct 2014.

(10) International Seminar on Magmatism, Tectonism and Mineralization (MTM – 2014); held at Department of Geology, Centre of Advance Study, Kumaun University, Nainital, Uttarakhand, India, from 27th to 29th March 2014.

(11) 3rd International conference on Precambrian Continental Growth and Tectonism PCGT – 2013; Organised by Department of Geology, Bundelkhand University, Jhansi, India, from 23rd to 26th Nov 2013.

(12) 26th Annual Conference of Indian Institute of Geomorphologists (IGI) on ‘Dynamics of Earth Surface Processes’; Jointly organised by Department of Geography and Department of Geology, The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat, from 20th – 22nd Nov 2013.

(13) Geoyouth – 2013 „4th All India Symposium on Geology“; held at Department of Geology, Mohanlal Sukhadia University, Udaipur, Rajasthan, on 15th and 16th Feb 2013.

List of Workshops attended:

- **Workshop on Scientific Skills: Writing Manuscript, Project Proposal, Oral and Poster Presentation**; Organised by Chemical Engineering Department, Faculty of Technology and Engineering, The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat, on 3rd March 2014.
- **DST Sponsored Training Programme on Construction of Balanced Cross Sections and Structural Profiles in Deformed Terranes**; Organised by Department of Applied Geology, Dibrugarh University, Assam, on 31st Oct 2014.
- **Refresher Course on Structural Geology**; Conducted by **Government of India, Geological Survey of India**, Regional Training Institute, Western Region, held at Zawal, Rajasthan, from 6th to 15th Jan 2015.
- **International Union of Geological Sciences commission on Tectonics and Structural Geology (IUGS – TecTask) sponsored workshop – 1: Mohr Circle Simplified; 2. Modern Methods of Fabric Analysis in Deformed Rocks**; held at Indian Institute of Technology Kharagpur, India, from 21st – 23rd Oct 2016.
- **National Workshop on Digital Mapping**; held at Department of Geology, University of Delhi, Delhi, on 6th October, 2018.
- **IUGS-TecTask Workshop: Structural Geology in the 21st Century**; held at Indian Institute of Technology Kharagpur, India, from 26th – 28th Feb 2020.

List of Referees:

- Dr. K. Balakrishna (Professor and Co-ordinator M.Sc. Geology), Department of Civil Engineering, Manipal Institute of Technology, Manipal Academy of Higher Education, Institution of Eminence, Manipal. 576104, Karnataka.
Email: k.balakrishna@manipal.edu
- Dr. L. S. Chamyal, (Retd. Professor and Former Head), Department of Geology, Faculty of Science, The Maharaja Sayajirao University of Baroda, Vadodara. 390002, Gujarat.
Email: lschamyal@yahoo.com
- Dr. M. A. Limaye, (Professor and Ph.D. Guide), Department of Geology, Faculty of Science, The Maharaja Sayajirao University of Baroda, Vadodara. 390002, Gujarat.
Email: manoj_geol@rediffmail.com
- Dr. M. G. Thakkar, (Professor and Head), Department of Earth and Environmental Science K.S.K.V. Kachchh University, Bhuj. 370001, Gujarat.
Email: mgthakkar@rediffmail.com
- Dr. S. Mukherjee, (Associate Professor), Department of Earth Sciences Geodynamics Lab (Room 205B, Second Floor), Indian Institute of Technology, Powai, Mumbai, 400076, Maharashtra.
Email: soumyajitm@gmail.com
- Dr. M. A. Mamtani (Professor), Department of Geology & Geophysics, Indian Institute of Technology, Kharagpur-721302, West Bengal.
Email: mamtani@gg.iitkgp.ac.in