

FACULTY PROFILE

Name	Dr. ADITI SHARMA	
Designation	ASSISTANT PROFESSOR	
Department	DEPARTMENT OF APPLIED GEOLOGY	
School	SCHOOL OF ENGINEERING AND TECHNOLOGY (EAT)	
Date of holding Present Post	25 NOVEMBER 2024	
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	Contact Address: Department of Applied Geology, School of Engineering and Technology (EAT), Dr. Harisingh Gour Vishwavidyalaya, Sagar, Madhya Pradesh (India)-470003	

Google Scholar Profile: [Google Scholar Profile Link](#)

ResearchGate Profile: [ResearchGate Profile Link](#)

EDUCATIONAL QUALIFICATIONS:

Post Doctorate, May 2024-November 2024, CSIR-Research Associate, University of Delhi, Delhi (India)

PhD, 2023, University of Delhi, Delhi (India)
(Topic: Depositional model, sedimentation age and provenance of the Mahakoshal Group, central India: clues from the Sleemanabad and Parsoi Formations)

MSc Applied Geology, 2017, Aligarh Muslim University, Aligarh, Uttar Pradesh (India)

BSc (Hons) Geology, 2014, Aligarh Muslim University, Aligarh, Uttar Pradesh (India)

FIELD OF SPECIALIZATION AND RESEARCH INTEREST:

Specialization: Sedimentology

Research interest: Earth's evolution during Precambrian using sedimentology, sediment geochemistry, isotope geochemistry, geochronology, basin modeling

PROFESSIONAL CAREER PROFILE:

November 2024 – Present, Assistant Professor, Dr. Harisingh Gour Vishwavidyalaya, Sagar, Madhya Pradesh (India)

May 2024-November 2024, CSIR-Research Associate, University of Delhi (Delhi, India)

SCHOLARSHIPS / AWARDS / HONOURS:

- GeoHost Support - IGC 2024 (held at Busan, Korea from 25th August to 31st August 2024).
- JSPS-DST travel grant (2019) to attend the JSPS-DST Japan-India Forum for Advanced Study held in Japan
- Grant to attend 1st Advanced Course on Deepwater Sedimentary Systems (23-27 Sept, Granada) provided by organizing committee
- 2nd rank in advanced training programme on Analytical Geochemistry organized by CSIR-NGRI, Hyderabad
- CSIR-Research Associateship (2024-2027)
- CSIR-UGC Senior Research Fellowship (2020-2023)
- CSIR-UGC Junior Research Fellowship (2018-2020)
- DU PhD Fellowship (2017-2018)

SUPERVISION / GUIDANCE: M.Tech./ PH.D. / PDF / RA

- (i) PDF / RA Supervised:
- (ii) Ph.D. Supervised
- (iii) Ph.D. Scholars working:
- (iv) M. Tech. Supervised

ACADEMIC VISITS TO ABROAD:

- NIPR, National Institute of Polar Research, Tachikawa, Japan
- Nagoya University, Nagoya, Japan
- Niigata University, Ikarashi Campus, Niigata, Japan

RESEARCH PROJECT: Completed/Ongoing

LABORATORY RESPONSIBILITIES:

- Co-officer In-charge of Sedimentology laboratory at Department of Applied Geology, Dr. Harisingh Gour Vishwavidyalaya, Sagar, Madhya Pradesh (India), since December 2024

ADMINISTRATIVE / ACADEMIC RESPONSIBILITIES:

- Core Committee Member of the International Collaboration Cell, Dr. Harisingh Gour Vishwavidyalaya, Sagar, Madhya Pradesh (India) since January 2025.
- News coordinator, Dr. Harisingh Gour Vishwavidyalaya, Sagar, Madhya Pradesh (India) since December 2024

EDITORIAL RESPONSIBILITIES

MEMBERSHIP OF PROFESSIONAL SOCIETIES:

- Member of International Association of Sedimentologists
- Life Member of Indian Association of Sedimentologists

RESEARCH PAPER PUBLICATION IN PEER-REVIEWED JOURNALS:

10. Sharma, A., Chakraborty, P.P., Pandey, A.K., Das, K., 2024. A tale of evolution of the Central Indian Tectonic Zone (CITZ) with glimpses on pre-CITZ plate margin history. Geological Journal, 60 (2), 404-430. <https://doi.org/10.1002/gj.5087>

9. Chakraborty, P.P., Barkat, R., Sharma, A., Shibata, T., Das, K., 2024. Decoding regressive depositional history from the Neoproterozoic Panium Sandstone Formation, Kurnool Group using 'Sequence' analysis and detrital zircon geochronology. Sedimentary Geology, 471, 106730.

<https://doi.org/10.1016/j.sedgeo.2024.106730>

8. Sharma, A. and Chakraborty, P.P.*, 2024. Recent findings from Proterozoic basins of Peninsular India and roadmap ahead. Proceedings of the Indian National Science Academy, 90, 241-252. <https://doi.org/10.1007/s43538-024-00258-1>

7. Chakraborty, P.P., Barkat, R. and **Sharma, A.**, 2023. Carbonate platform architecture and carbon isotope stratigraphy from the Neoproterozoic Narji limestone formation, Kurnool Group, India: Decoding clues of relative sea level fluctuations. Marine and Petroleum Geology, 149 p.106086, <https://doi.org/10.1016/j.marpetgeo.2022.106086>

6. Sharma, A., Das, K.*, Chakraborty, P.P., Shiraishi, F., Kayama, M., 2022. U–Pb zircon geochronology of a pyroclastic rock from the Parsoi Formation, Mahakoshal Group: Implications towards age and tectonics of the Basin in Central Indian Tectonic Zone. Geological Journal, 57 (10):4122–4138, <https://doi.org/10.1002/gj.4533>

5. Chakraborty, P.P.*, Sharma, R., Das, K., **Sharma, A.**, Saha, S., 2022. U-Pb zircon geochronology of volcanoclastics and encasing sandstones from the Chhoti Khatu section: Bearing on the Neoproterozoic Marwar Supergroup stratigraphy and its global implications. Geosystems and Geoenvironment, 2 (1), 100111, <https://doi.org/10.1016/j.geogeo.2022.100111>

4. Chakraborty, P.P.*, Bailwal, R., Paul, P.P., and **Sharma, A.**, 2022 Alluvial sedimentary records in Indian Precambrian basins: implications towards unique Precambrian sedimentary environment? Frontiers in Earth Science, 10:892717. <https://doi.org/10.3389/feart.2022.892717>

3. Sharma, A. and Chakraborty, P.P.*, 2021. Carbonates from the Palaeoproterozoic Sleemanabad Formation, Mahakoshal basin, Central India. Current Science, 121(3), 414-421

2. Mishra, S.R., **Sharma, A.***, Chakraborty, P.P., Mohanty, S.P. and Tripathi, S.C., 2020. Mixed carbonate–siliciclastic sedimentation in the Upper Cretaceous Nilkanth Formation, Garhwal Himalaya, India. Journal of Earth System Science, 129, pp.1-14, <https://doi.org/10.1007/s12040-020-01383-3>

1. Chakraborty P.P.*, **Sharma, A.**, and Saha, S., 2020. Deformation features from some Proterozoic (Purana) basins of peninsular India: do they record any story on Precambrian ‘Supercontinent’? Indian Journal of Geosciences, Vol. 74. No. 4, pp.371-380, <https://www.gsi.gov.in/webcenter/portal/OCBIS/pageQuickLinks/pageIndianJournal>

BOOK / BOOK CHAPTER PUBLISHED

SEMINAR / CONFERENCE: Organized/attended

10. Sharma, A.*, Chakraborty, P.P., and Das, K., 2024. Sedimentation history and U-Pb detrital zircon age from Paleoproterozoic Mahakoshal back-rift basin developed during the evolution of Central Indian Tectonic Zone, India, **IGC24, Korea**

9. Deep, A.*, Chakraborty, P.P., and **Sharma, A.**, 2024. Marine to Continental transition in

Chakrata to Rautgara Formation, Inner Lesser Himalaya (ILH), Uttarakhand, India, **IGC24, Korea**

8. Sharma, A.*, Chakraborty, P.P., and Das, K., 2023. Deconvolution of sedimentation history from a deformed, metamorphosed Paleoproterozoic back-arc rift succession: Parsoi Formation, Mahakoshal Group, Central Indian Tectonic Zone. **AGU 23, USA**

7. Sharma, A.*, and Chakraborty, P.P., 2019. A relook to the Sleemanabad Formation-Parsoi Formation distinction and their transition, Mahakoshal Group, Central India, India. JSPS-DST Japan-India Forum for Advanced Study; **Japan**

6. Sharma, A.*, Chakraborty, P.P., 2024. Understanding the depositional pattern in a Paleoproterozoic back-arc rift basin using process-based sedimentology. 40th convention of the Indian Association of Sedimentologists (IAS-2024) and the National Conference on 'An Odyssey of Sedimentology from Precambrian to Anthropocene: Significant contributions in Environmental Climatic and Energy Research'.

5. Sharma, A.*, and Chakraborty, P.P., 2023. Sedimentation history of deformed and metamorphosed Paleoproterozoic Parsoi Formation within the Mahakoshal Group, Central Indian Tectonic Zone: Insights into the Sedimentation pattern of a Paleoproterozoic back-arc rift basin. 39th convention of the Indian Association of Sedimentologists (IAS-2023) and the National Conference on 'An Innovative Voyage of Sedimentology: From the Himalaya to the Indian Ocean'.

4. Sharma, A.* and Chakraborty, P.P., 2022. Rare Earth Element (REE) +Y geochemistry from Banded Iron Formation (BIF) in Paleoproterozoic Sleemanabad Formation, Mahakoshal Group: Clues for volcanic origin and suboxic/anoxic basinal condition. 38th convention of Indian association of sedimentologists (IAS-2022) & national conference on current understanding from the Indian sedimentary basins and road ahead. P46

3. Sharma, A.* and Chakraborty, P.P., 2022. Architecture of a Paleoproterozoic carbonate platform in an asymmetrical rift setting: Sleemanabad Formation, Mahakoshal basin. National conference on resource potential of the sedimentary basins & 37th convention of Indian association of sedimentologists (IAS- 2022). P36

2. Sharma, A.* and Chakraborty, P.P., 2021. Reconstruction of a Paleoproterozoic delta sedimentation model from the Parsoi formation, Mahakoshal group, central India. National Seminar on Recent Advances in Geoscience Research in India.

1. Sharma, A.*, and Chakraborty, P.P., 2019. A relook to the Sleemanabad Formation-Parsoi Formation transition, Mahakoshal Group, Central India, India. National Seminar on Advances in stratigraphy and geochronology in Indian sedimentary basins and road ahead; New Delhi, India

WORKSHOP/SHORT COURSES: Organized/attended

- Advanced training programme on Analytical Geochemistry (March 04-13, 2024) organized by CSIR-NGRI, Hyderabad

- Workshop on “Sedimentary environment and facies modeling: 3D modeling of outcrop and quantitative facies modeling”, IAS-2022.
- Field Training course (2019) on Litho and bio facies analysis of marine Subathu succession, Garhwal Syncline. (by GSI India)
- Workshop on “Petroleum exploration” at Department of Geology, AMU, Aligarh, India. (2017)
- Short course by IIRS/ISRO (Department of Space, India) on Geospatial Technologies for Urban Planning (2016)
- Short course in water co-operation under the Rio+21 IYWC India Program organized by IARC and UNCSD under UNDDDD (2013)

INVITED TALK DELIVERED