

CURRICULUM VITAE

Name: Dr. Amit Kumar Mishra
Current Position: Research Associate
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ACADEMIC QUALIFICATIONS

Examinations	Board/University	Year	Marks (in %)	Division/ Rank
Secondary/ High School	UP Board	2008	69%	FIRST
Sr. Secondary/ Intermediate	UP Board	2010	75%	FIRST
Graduation (B.Sc. in Geology & Botany)	Lucknow University	2013	73.88%	FIRST
Post Graduation (M.Sc. in Geology)	Lucknow University	2015	68.83%	FIRST
NET-JRF	CSIR-UGC	2016		59 TH RANK/161
Ph.D. in Geology	Banaras Hindu University, Varanasi & Birbal Sahni Institute of Palaeosciences, Lucknow	2022		

Title of the Ph.D. thesis: “Vegetation dynamics, climate change and anthropogenic impact during the Holocene from Chopta-Tungnath region, Western Himalaya, India”.

Supervisors: Dr. Ratan Kar, Birbal Sahni Institute of Palaeosciences, Lucknow; Prof. Uma Kant Shukla, Department of Geology, Banaras Hindu University, Varanasi.

Research interest: I have worked on the problems related to Quaternary palaeovegetation and palaeoclimate on the high-altitude, fluvio-glacial and lacustrine sediments of Western Himalaya, mainly involving palynology, with additional inputs from mineral magnetism and granulometric analysis. My work contributes to the understanding of impacts of climate variability, vegetation reconstruction, extreme events and anthropogenic activities in the Himalayan region during the Holocene.

PROFESSIONAL EXPERIENCE

Designation	Organization	Duration		Nature of job
		From	To	
CSIR NET JRF	Birbal Sahni Institute of Palaeosciences, Lucknow, UP	05/06/2017	04/06/2019	Research
CSIR NET SRF	Birbal Sahni Institute of Palaeosciences, Lucknow, UP	05/06/2019	04/06/2022	Research
Guest Faculty in Geology	Maharishi University of Information Technology, Lucknow, UP	21/03/2023	30/06/2024	Teaching & Research
Guest Faculty in Geology	Babasaheb Bhimrao Ambedkar Central University, Lucknow, UP	20/08/2024	06/03/2025	Teaching & Research
Research Associate	Birbal Sahni Institute of Palaeosciences, Lucknow, UP	07/03/2025	Ongoing	Research

AWARDS/EXTRA-CURRICULAR ACTIVITIES

- ❖ Selected in CSIR-RA, 2025
- ❖ Birbal Sahni research Associate Fellowship at Birbal Sahni Institute of Palaeosciences, Lucknow (2025)
- ❖ Qualified CSIR UGC NET JRF- June, 2016 (AIR 59th/161)

- ❖ National Service Scheme (NSS) certificate during B.Sc. (2011-2013)
- ❖ Participated in Eduheal Foundation Interactive Olympiads-2010 (National rank-346)
- ❖ Participated in National Level Science Talent Search Examination (NSTSE)-2010 (AIR-954)
- ❖ Winner of Hello Young Scientist Programme organized by Radio FM in collaboration with DST-UP Government, 2010
- ❖ Awarded by several prizes in Speech, Extempore, Essay writing, Singing and Quiz competitions from the school times to the Present.

TRAININGS/ SEMINARS/ WEBINARS

- ❖ Attended national seminar on Application of Microfossils Proxy in Solving Earth and Environmental Problems, 25th February, 2017, organized by Nagpur University.
- ❖ Participated in Sciencetoon Competition during India International Science Festival, Lucknow, 2018.
- ❖ Completed the Training Course on “Fundamentals of Geographic Information System” conducted by Regional Training Division, GSI, Northern Region, Lucknow from 18-28 February, 2019.
- ❖ Poster presented on the topic “Modern pollen-vegetation relationship along an altitudinal transect in the Chopta-Tungnath region, Western Higher Himalaya, India” at XXVII Indian Colloquium on Micropaleontology and Stratigraphy at Banaras Hindu University, Varanasi, India, 4-6th November, 2019.
- ❖ Participated as a Volunteer in Science Festival-2020, 20th -24th November, 2020, Organised by University of Lucknow.
- ❖ Participated in National Webinar on Proxies in Climate Reconstruction, 27th November, 2020, organised by Department of Geology, Mohanlal Sukhadia University, Udaipur.
- ❖ Participated in National Webinar on International Mountain Day, 11th December, 2020, organised by Uttarakhand Science Education and Research Centre.
- ❖ Poster presented on the topic” Pollen-vegetation relationship, Late Holocene climate variability and anthropogenic impact in the Chopta-Tungnath region, western Himalaya India” at training programme on “River Rejuvenation, Climate Resilience and DRR: Plans, Perspectives and Policies” during 17th – 21st October, 2022 jointly organised by Department of Geology, BBAU, Lucknow and NIDM, New Delhi.
- ❖ Paper presented on the topic “Reconstruction of the Holocene climate variability from the Western Himalaya: a case study from the Chopta-Tungnath region, Uttarakhand, India” at XXIX Indian Colloquium on Micropaleontology and Stratigraphy at Delhi University, New Delhi, India, 17-19th October, 2024.

COMPUTER SKILLS

- ❖ Awarded with Certificate Course on Computer Concepts (CCC) conducted by National Institute of Electronics and Information Technology (NIELIT) on March-2019.
- ❖ Diploma in Software Technology (6 months) from ICM, Lucknow, 2010.
- ❖ Proficient in Microsoft Word, Power Point, Corel Draw and in Operating System-Microsoft Windows (7/8/10).
- ❖ Software: TILIA for palynological analysis; GRADISTAT for granulometric analysis. EXCEL for data analysis related to climate science.

PUBLICATIONS

- ❖ Quamar MF, **Mishra AK**, Mohanty RB, Kar R (2024). Implications of Pinus L. pollen abundance for reconstructing the Holocene palaeoclimate from the Himalayas, India, *Review of Palaeobotany and Palynology*, 326, 105130, ISSN 0034-6667, <https://doi.org/10.1016/j.revpalbo.2024.105130> (**Impact factor: 2.493**).
- ❖ Mohanty RB, **Mishra AK**, Mishra K, Yadava AK., Quamar MF, Kar R (2024). Early onset of aridity in the past millennium: insights from vegetation dynamics and climate change in the alpine, cold-desert region of Trans Himalaya, India, *PLOS One* 19(1), e0295785, ISSN 1932-6203, <https://doi.org/10.1371/journal.pone.0295785> (**Impact factor: 3.752**).
- ❖ **Mishra, A. K.**, Mohanty, R. B., Ghosh, R., Mishra, K., Shukla, U. K., & Kar, R. (2022). Modern pollen–vegetation relationships along an altitudinal transect in the Western Higher Himalaya, India: Palaeoclimatic and anthropogenic implications. *The Holocene*, 32(8), 835-852. ISSN 1477-0911, <https://doi.org/10.1177/09596836221096006> (**Impact factor: 3.092**).
- ❖ Kar R, Mishra K, Quamar MF, Mohanty RB, Agrawal S, Tripathi S, **Mishra AK** (2022). A high-altitude calibration set of modern biotic proxies from the Western Himalaya, India: Pollen–vegetation relation, anthropogenic and palaeoclimatic implications, *Catena*, 211, 106011, ISSN 0341-8162, <https://doi.org/10.1016/j.catena.2021.106011> (**Impact factor: 6.367**).
- ❖ Kar R, **Mishra AK**, Mazumder A, Mishra K, Patil SK, Ranhotra PS, Bajpai R, Singh K (2021). Deciphering the changing climate and environment around Ny-Ålesund, Svalbard, since the Last Glacial Maximum: a multiproxy approach (book chapter), *Understanding Present and Past Arctic Environments*, Elsevier, 49–78, ISBN 978-0-12-822869-2, <https://doi.org/10.1016/B978-0-12-822869-2.00020-7>.
- ❖ Quamar MD, **Mishra AK**, Kar R (2020). Vegetation vis-à-vis climatic changes from the Himalaya, over the last 75000 years, as revealed by palynological studies, *Indian Journal of Archaeology*, 5(3), 1–13, ISSN 2455-2798, <https://www.ijarch.org/issue/editorial-july-2020>.



Date: 20/07/2025

(Dr. Amit Kumar Mishra)