

Name : Dr (Mrs) Anjum Farooqui
Designation: Scientist F
Affiliation: Birbal Sahni Institute of Paleosciences, 53, University Road, Lucknow, India
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Qualification: M.Sc. Ph.D - Botany (Condensed Course in Geology , Univ. of Lucknow,
Lucknow)

Professional Positions

Senior Research Fellow: Biological fabric of river Ganga from Kanpur to Kannauj- Ministry of Forest, Environment and Wildlife, New Delhi

Research Associate: Biogeochemistry and Geobotanical prospecting of minerals, CSIR-National Botanical Research Institute, Lucknow (1992-1994)

Present Position: Palynologist (Scientist since 1994 at BSIP, Lucknow)

Research Interest:

- Origin and history of tropical forests in Peninsular India (palynology)
- Mangrove evolution, Environment, Climate and Relative sea-level changes during Late Quaternary Period and Recent.
- Study of Pollen/spores, phytolith, sponge spicules, testate amoebae as proxy for monitoring past/present ecology and climate

Field Experience

Field survey and collection of samples for study in different projects have been conducted in the entire south-east coast, south-west coast and south-western ghats, Himachal Pradesh along with some parts of gangetic plain in India.

Thesis supervised: Ph.D (Three awarded and two ongoing)

- Palyno-chronostratigraphy in Northern part of Cauvery delta, Lucknow University (DST PProject)- Supervisor (PhD awarded by Lucknow University to Dr. Jyoti Srivastava, BSIP)

- Climate induced relative sea level changes and coastal vegetation in Krishna delta south east coast of India (BSRS, BSIP)- Supervisor (PhD awarded Kumaun University ; Dr. Ranjana)
- Indian Summer Monsoon climate fluctuations in Gangetic plain (JRF, IIT Kanpur)-Co-Supervisor- ongoing (Ph D awarded, IIT Kanpur; Dr. Pavni Misra).
- Indo-Norwegian Project (MoES) PACT (Pliocene Arctic Climate Telecommunication) Supervisor- ongoing (Ph D registration – BHU, Varanasi; Mr. Salman Khan).
- Characterization of glacial lake deposits of the Ladakh range, NW trans Himalaya: implication to landscape evolution and palaeoclimate (SR/dgh69/13) PI Dr. Binita Phartiyal; Co –PI Anjum Farooqui (Ms. Priyanka Joshi, Ph D registration -BHU, Varanasi)

M.Sc./ B.Tech Dissertations/Palynological training:

- **Guided/provided training to 26 Students of different Universities/Institutes**

Recognition/awards

- Best research paper (Chunnilal Katiyal Award-1997)
- Best Research paper (Team Work- 2014)
- Best Research paper in 2016 in BSIP

Projects (Completed/ongoing)

- Vegetation and Climate relationship in Pichavaram estuary, Tamil Nadu, India (DST, New Delhi; Completed 2012)
- Pliocene Arctic Climate Telecommunication (PACT). Project MoES-RCN joint proposal (MoES/Indo-Nor. PS-8/2015) Completed
- Characterization of glacial lake deposits of the Ladakh range, NW trans Himalaya: implication to landscape evolution and palaeoclimate (SR/dgh69/13) PI Dr. Binita Phartiyal; Co –PI Anjum Farooqui, Completed
- Scheme for Transformational and Advanced Research in Sciences Ministry of Human Resource Development Implemented by Indian Institute of Science, Bangalore; PI- Dr. Parth Chauhan and 3 Co-PIs . Co- PI- Anjum Farooqui (ongoing)

Memberships/Fellowships of scientific/ professional bodies/ societies/ academies:

1. Fellow Founder- Member – **Int. Soc. of Plant and Environment**. NBRI, Lucknow.
2. Member, **International Geological Correlation Programme (IGCP-495)**.
3. Life Member, **Palaeontological Society of India**, Lucknow
4. Life Member, **Palaeobotanical Society , BSIP**, Lucknow
5. Member, **Int. Society of Applied Geochemists**, Hyderabad
6. Member **Int. Jour. Plant Morphologists**, Delhi
7. Member, **Int. Soc. of Tropical Ecology**, BHU, Varanasi
8. Member co-ordinator INQUA HaBcom

National/International Conferences, Seminars

More than 20 National and 6 International conferences

Organized International Brainstorming session and Workshop for climate change and anthropogenic studies-2017, BSIP, Lucknow

Member, different committees of BSIP during 1994-2018 eg., Herbarium, Library, Garden and Scanning Electron Microscopy, Confocal Microscopy and conferences/seminars.

PAPERS PUBLISHED – 114 RESEARCH PAPERS AND 11 ARTICLES/REPORTS

1. Salman Khan, Anjum Farooqui , Uma Kant Shukla , Kari Grøsfjeld , Jochen Knies , Vandana Prasad. 2021. Late Pliocene continental climate and vegetation variability in the Arctic-Atlantic gateway region prior to the intensification of Northern Hemisphere glaciations. *Palaeogeography, Palaeoclimatology, Palaeoecology* 586 (2022) 110746.
2. Anjum Farooqui and Salman Khan, 2021. Climatic periodicity and vegetation correlation during Late Pleistocene-Holocene from southern Western Ghats, India (under review- *Catena*).
3. Anjum Farooqui, Rajesh Agnihorti, Salman Khan, S.K.S. Gahlaud, M U Sharief. 2021. Temporal variability in carbon and nitrogen stable isotopes of *Strobilanthes kunthianus* leaf: Its photosynthetic efficacy and water-use deficiency in a warming climate. *J. Earth Syst. Sci.* (2021) 130:241 <https://doi.org/10.1007/s12040-021-01737-5>
4. Rajesh Agnihorti , Anjum Farooqui, Niteshkumar Khonde , Runcie P. Mathews , Shalini Sharma , S.K.S Gahlaud , Sanjay Kumar Manjul , Arvin Manjul , Ravi Sawlani 2021. Microscopic, biochemical and stable isotopic investigation of seven multi-nutritional food-balls from Indus archaeological site, Rajasthan (India) *Journal of Archaeological Science: Reports* 37, 102917
5. Anjum Farooqui, Hukam Singh, Mahesh Prasad, Veeru Kant Singh. 2021. Morphometry and morphology of Testate amoebae from the Miocene sub Himalayan zone of Darjeeling, India. *Himalayan Geology*, Vol. 42 (1), 2021, pp. 1-10.
6. Shilpa Pandey , Ligia E. Urrego , Yuvaraj Eswaran , Debika Deori , Anjum Farooqui , Kamlesh Kumar. 2021. Modern pollen and vegetation relationships in a mangrove tidal creek, South

- Andaman, Andaman & Nicobar Islands, India and their palaeoecological implications. *Catena*, 200. 105130.
7. Anjum Farooqui, Suresh K. Pillai, Deepa Agnihotri, Salman Khan, Rajni Tewari, Sunil K. Shukla, Sajid Ali, Anjali Trivedi, S.K. Pandita, Kamlesh Kumar, G.D. Bhat, Rajesh Agnihotri. 2021. Impact of climate on the evolution of vegetation in tectonically active Karewa basin, Kashmir Himalayas. *J. Earth Syst. Sci.* (2021) 130:93
 8. Arti Garg, Swati Tripathi, Anjum Farooqui and A.N. Shukla. 2021. Palynological remarks on the taxonomic status of *Ludwigia octovalvis* subsp. *sessiliflora* (Micheli) P.H.-Raven based on LM and FESEM studies (communicated NASI)
 9. Rupa Ghosh, Anjum Farooqui. 2021. Relative sea level changes, ecosystem and sedimentation dynamics during late Pleistocene in the south-western coast of Kerala. (under review. JPSI).
 10. Pavani Misra , Anjum Farooqui , Rajiv Sinha , Sonal Khanolkar, Sampat K. Tandon. 2020. Millennial-scale vegetation and climatic changes from an Early to Mid-Holocene lacustrine archive in Central Ganga Plains using multiple biotic proxies. *Quaternary Science Reviews* 243 (2020) 106474
 11. Phartiyal B, Farooqui A and BOSE T. 2020. Climate Change Variability Through Lacustrine Records Published During 2016-2019: Implications, New Approaches, and Future Direction Proc Indian Natn Sci Acad 86 No. 1 March 2020 pp. 389-403
 12. Anjum Farooqui, Anjali Trivedi, Graeme Swindles and M.S. Chauhan, 2020. Distribution of testate amoebae (thecamoebians) in a desiccating lake, India *Journal of the Palaeontological Society of India*. Volume 65(1),: 81-89.
 13. Anjali Trivedi, Ye-NaTang, Feng Qin, Anjum Farooqui, Alexandra H.Wortley, Yu-FeiWang, Stephen Blackmore, Cheng-SenLi, Yi-FengYao. 2020. Holocene vegetation dynamics and climatic fluctuations from Shuanghaizi Lake in the Hengduan Mountains, southwestern China. *Palaeogeography, Palaeoclimatology, Palaeoecology*. 560, 110035
 14. Neha Aggrawal , Anjum Farooqui and Neerja Jha. 2019. Testate amoebae community in Permian sediments of India. *Journal of the Palaeontological Society of India*. Volume 64(2): 227-240.
 15. Anjali Trivedi, Anju Saxena, M.S. Chauhan, Anupam Sharma, Anjum Farooqui, C.M. Nautiyal, Yi-Feng Yaob, Yu-Fei Wangb, Cheng-Sen Lib, D.P. Tiwari. 2019. Vegetation, climate and culture in Central Ganga plain, India: A multi-proxy record for Last Glacial Maximum. *Quaternary International* 507 (2019) 134–147.
 16. Anjum Farooqui , Joseph G Ray and Arti Garg 2019. An extinct *Basella* pollen recorded around 80 ka from Western Ghats (Kerala). *Grana* (DOI: 10.1080/00173134.2019.1630479).

17. Anjum Farooqui, Swati Tripathi, Arti Garg, Achuta Nand Shukla, Srikanta Murthy, Vandana Prasad, Gopal Prasad Sinha. 2019. Paleotropical lineage of Indian Water Primrose (*Ludwigia* L., Onagraceae) using pollen morphometric analysis. *Review of Palaeobotany and Palynology* 269, 64–77.
18. Jyoti Srivastava, Anjum Farooqui and Priyanka Seth. 2019. Pollen-vegetation relationship in surface sediments, Coringa mangrove ecosystem, India: palaeoecological applications. *Palynology*. 2019, Vol. 43 (3), 451–466.
19. Farooqui Anjum. 2018. The rise and fall of vegetation during the Quaternary: Palynological record from coastal sediments, India *Indian Journal of Archaeology. 1-18*. www.ijarch.org
20. Farooqui Anjum, 2018 "Epidermal morphological features and phytolith variation in the leaf of *Oryza sativa* L.", IJRAR - International Journal of Research and Analytical Reviews (IJRAR), E-ISSN 2348-1269, P- ISSN 2349-5138, Vol.5(4) : 45-53.
21. Priyanka Raja, Hema Achyuthan, Anjum Farooqui, Rengaswamy Ramesh, Pankaj Kumar, Sundeep Chopra. 2018. Tropical Rainforest Dynamics and Palaeoclimate Implications since the late Pleistocene, Nilgiris, India. *Quaternary Research*, 1–16. doi:10.1017/qua.2018.58
22. Santhanam Harini, Anjum Farooqui & Anandasabari Karthikeyan. 2018. Bloom of the diatom, *Biddulphia* sp. and ecology of Pulicat lagoon, Southeast India in the aftermath of the 2015 north east monsoonal rainfall. *Environ Monit Assess* (2018) 190:636 <https://doi.org/10.1007/s10661-018-7020-9>
23. Tripathi S, Farooqui A., Singh V K, Singh S, Rup Kumar Roy, R K. 2018. Morphometrical analysis of *Ceiba* Mill. (Bombacoideae, Malvaceae) pollen: a sacred plant of the Mayan (Mesoamerican) civilization. *Palynology* (online 4 Nov 2018).
24. Vandana Prasad, Anjum Farooqui, Srikanta Murthy, Omprakash S. Sarate, Sunil Bajpai. 2018. Palynological assemblage from the Deccan Volcanic Province, central India provides insights into early history of angiosperms and the terminal Cretaceous palaeogeography of peninsular India. *Cretaceous Research* 86 (2018) 186-198.
25. Srivastava Jyoti and Anjum Farooqui (2017). Fluctuations in relative sea level and mangroves in the Coleroon estuary since ~4.6 ka: A palynological study from SE coast of India. *Geophytology* 47(1), 11-26.
26. Srivastava J and Farooqui A. 2017. Holocene climate and relative sea level changes in Cauvery river delta, India based on pollen and sedimentary records. *J. Palaeontological Society* 62 (2): 193- 204.
27. Chauhan M.S, Farooqui A and Trivedi A. 2017. Plants foraged by bees for honey production in northern India: The diverse flora of India and its implications for apiculture. *Acta Palaeobotanica* 57(1): 119–132.
28. Tripathi D, Chauhan D K, Farooqui A, Kotlia BS, Thakur B, Morthekai P, Long T, Chauhan MS, Pokharia AK. 2017. Late Quaternary climatic variability in the Central Ganga Plain: A multi-proxy record from Karela Jheel (Lake). *Quaternary International* : 306: 97-106.
29. Farooqui A, Ranjana and Nautiyal, C M., 2016. Deltaic land subsidence and sea level fluctuations along the east coast of India since 8 ka: A palynological study. *The Holocene*, Vol. 26(9) 1426–1437.

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32. Rajmanickam V, Achyuthan H, Eastoe C and Farooqui A. 2016 Early-Holocene to present palaeoenvironmental shifts and short climate events from the tropical wetland and lake sediments, Kukkal Lake, Southern India: Geochemistry and palynology. *The Holocene* Vol. 26 1–14
33. Chauhan MS, Farooqui A and Trivedi A. 2015. Impact of Urbanisation, Deforestation and Foraging Pattern of Honey bees. *Indian Journal Applied Research*, 5 (4) : 44-47. ISSN - 2249-555X
34. Ranjana and Farooqui A. 2015. Relative Sea level, climate and geomorphological changes since ~8 ka in Krishna river delta, India. *Int. Jour. of Current Research and Academic Review* 3 (10), 303-316.
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38. Trivedi Anjali, M.S. Chauhan and Anjum Farooqui 2014. Studies on Pollen Rain vis-a-vis Vegetation Relationship and Thecamoebian Diversity in Bari Tal area, Lucknow District, Uttar Pradesh. *Biological Forum – An International Journal* 6(1): 68-78(2014) ISSN No. (Print): 0975-1130
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41. Srivastava, J., A Farooqui, 2014. Environmental impact on coastal wetlands since 4 ka in Cauvery Delta: Palynology and thecamoebian study. *Journal of the Geological Society of India* 84 (4), 459-466.
42. Farooqui A and A.S. Gaur, 2014 Chap 7. Climate Induced Vegetational Evolution: Palynological and Thecamoebian Study from Coastal Archaeological Sites, Saurashtra . 97-106. *Proc. 8th National Conference on Marine Archaeology at Goa*. In: *Marine Archaeology of India*. NIO Publication.
43. Anjum Farooqui, Arun Kumar and Ranjana, 2014. Thecamoebian as Proxies for Seasonally Induced Hydrological Changes in Sub-tropical Ponds of India. *Gondwana Geological Magazine. Proc. Lakes and Environmental Aspect*. 2014.

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46. Srivastava J, Farooqui A. 2013. Late Holocene mangrove dynamics and coastal environmental changes in the northeastern Cauvery delta, India, *Quaternary International*. 298 45-56.
47. Farooqui A, A.S.Gaur and Vandana Prasad, 2013. Climate, Vegetation and Ecology during Harappan Period: Excavations at Kanjetar and Kaj, Mid-Saurashtra coast, Gujarat. *Jour. Archaeological Science*. 40 : 2631-2647
48. Farooqui A 2013 A Glimpse of Palynological succession from India: Vegetation, Climate and Anthropogeny since Middle Holocene. Ch.7, 73-88. In: (Ed. Kotlia B S) *Holocene- Perspectives, Environmental Dynamics and Impact Events*. Nova Science Publishers. Inc.
49. Farooqui A. 2013. Palynological analysis of four sedimentary soil profiles from Bokhira. Chap 6. Pages 51-58. In: *Maritime Archaeology around Porbander* (Eds. A.S. Gaur and Sundaresh), CSIR, National Institute of Oceanography, Aryan Books International.
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56. Singh V, Farooqui A, Mehrotra NC, Singh DS, Tewari R, Jha N and Kar R 2011. Late Pleistocene and Early Holocene Climate of Ny-Alesund, Svalbard (Norway): A Study based on Biological Proxies *Jour Geol. Society of India*. Vol.78, pp. 1-8. (IF- 0.424)
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58. Farooqui A, S.M.Hussain, S. Arikesan and Jyoti Srivastava. 2010 Deposition of biotic forms in the surface and sub-surface sediments of the Pichavaram estuary and adjoining areas. *Journal of Soil Science, Ukrainian Academy of Sciences* 2010, No 1-2, pp. 28-40.
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63. Farooqui A, J.G.Ray, S.A. Farooqui, R. K. Tiwari and Z. A. Khan. 2010. Palyno-diversity, sea level and climate prior to 40ka in Indian Peninsula, Kerala. *Quaternary International*. 213: 2-11.
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