

MALIK ZUBAIR AHMAD

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- **PhD in Geology** from Pondicherry Central University, Pondicherry, India.
 - **M. Sc in Applied Geology** from Aligarh Muslim University, Aligarh, India.
 - **B. Sc (Hons.) in Geology** from Aligarh Muslim University, Aligarh, India.
 - **12th** from Aligarh Muslim University, Aligarh, India.
 - **10th** from Jammu & Kashmir Board, J& K, India.

TOPIC OF DOCTORAL RESEARCH

“Geochemical and Isotopic Studies of sub-surface sediments from Cauvery Delta, South India.”

POST GRADUATE DISSERTATION

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- **Topic:** Geomorphic Analysis of Agra District (India) by using various remote sensing techniques: An Impact Assessment Project.
Nature of work: Research Oriented
Description of Work: Literature review, Field Visits, Aerial Photograph & Image interpretation, Geological & Geo-morphological Mapping, Landuse Mapping, Lithological Discrimination through advance GIS and Remote sensing technology, GIS Database generation, Report writing and Presentation etc.

RESEARCH EXPERIENCE

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- Worked as Junior Research Fellow (JRF) in the DST-major project from 1st May 2008 to 1st May 2009, Project title. *“Drill core sampling of the Quaternary Sediments of the Cauvery Delta between Mannargudi and Pennar river for geochemical and paleo environmental studies”*
 - Worked as Senior Research Fellow (SRF) in the DST-major project from 1st May 2009 to 30th September 2010 in the above mentioned project.,
 - Worked as UGC Junior Research Fellow (JRF) from 1st September 2010 to 30th March 2013.

SKILLS

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- **Computer Application:** Hands-on-Experience of MS-DOS, CorelDraw, Sigma plot, X'Pert Highscore, and Google Earth.
 - **Instrumentation:** Working Knowledge of instruments like Thermal Ionization spectrometer (TIMS), Induced Coupled Plasma (ICP-AES), X-Ray Diffractometer (XRD), Flame Photometer, Spectrometer, Isodynamic Separator, pH meter, EC meter,
 - **Analytical:** Petrography and Analysis of Rock, Working knowledge of various analytical methods involved in Water-Rock Analysis (Major/Trace & REE)

AWARDS AND ACHIEVEMENTS

- **All India Rank 61** in Graduate Aptitude Test in Engineering (**GATE**) with total percentile of 88.57 in the year 2005.
- Cleared **UGC-JRF (NET)** held by joint CSIR-UGC on 21-06-2009 with **All India Rank 67 in the subject**
- **“BEST PAPER AWARD”** at “*National seminar on Basins of India, their resources and Management*” held in the Department Of Earth Sciences, Annamalai University, Annamalainagar, Tamil Nadu on 17th and 18th February 2011.
- Received an **“Excellent presentation award”** at DST sponsored meeting on “*Science of shallow Sub- surface*” at National geophysical Research Institute Hyderabad , On October 12th -14th , 2009.

Professional Training

- Participated in the, “*Application of Radiogenic Isotopes In geochronology and geochemistry*” sponsored by DST and organized by national Facility for geochronology and Isotope Geosciences at Department of Earth sciences, Pondicherry University, Puducherry during 15th – 20th December., 2008.

International Conferences

- Poster presented at: “21st V.M. GOLDSCHMIDT” conference 2011, 14th- 19th August, Prague, Czech Republic

Teaching Experince

Presently working as Assistant Professor at Department of Earth Sciences University Of Kashmir from December 2015.

Research Publication/ Abstracts in conferences/symposia/volumes

Reyaz Ahmad Dar, Omar Jaan Paul, Khalid Omar Murtaza, Irfan Maqbool Bhat, **Malik Zubair Ahmad**, Feroz Ahmad, Jehangeer Ahmad Mir1, Waseem Qadir, Suhail Hussain Sheikh “*Interrelationship of deep-seated tectonic activity and surficial geomorphic processes in the Zaskar Shear Zone, NW Himalaya, India*” *Journal of Earth Surface Processes and Landforms (Under Review)*

Farooq Ahmad Dar, Mamilla Venkateshwarlu, Imran Khan, **Malik Zubair Ahmad** “Modeling the environment and climatic conditions of Ladakh Himalaya using Quaternary sediments”. *Journal of Modeling Earth Systems and Environment*. (Jan, 2024)

Malik Zubair Ahmad & Pramod Singh “*Geochemistry of core sediments from cauvery delta south-east india: inferences on weathering and paleo-redox conditions*” *Quaternaire*, **34** (4), 2023, p. 253-271 <https://doi.org/10.4000/quaternaire.18588>

Akhtar Rasool Mir · Farooq Ahmad Dar · **Malik Zubair Ahmad** “*Characteristics of Geosites for Promotion and Development of Geotourism in Ladakh, India*” *Geoheritage* (2023) 15:105

<https://doi.org/10.1007/s12371-023-00866-1> (I. F: 2.786)

Malik Zubair Ahmad & Pramod Singh. “*Implication of weathering and mineral sorting on rare earth element geochemistry of Pleistocene–Holocene sediments from Cauvery delta, south India*”. J. Earth Syst. Sci. (2019) 129 14 <https://doi.org/10.1007/s12040-019-1279-2> (I. F: 1.912)

Malik Zubair Ahmad & Pramod Singh. *REE geochemistry of core sediments of Cauvery delta, India for provenance studies* Acta Geochim (2019) 39(4):512–526. <https://doi.org/10.1007/s11631-019-00379-1> (I. F: 0.43)

Pramod Singh, M. G. Yadava , **Malik Z. Ahmad** , P. P. Mohapatra , A. H. Laskar , S. Doradla, J. Saravanavel and C. J. Kumanan, “*Fertile farmlands in Cauvery delta: evolution through LGM*” Current Science, Vol. 108, No. 218 2, 25 January 2015. (I. F: 1.169)

Malik Zubair Ahmad , S. Balakrishnan and Pramod Singh*. *Sr and Nd isotope studies on sediment core samples from Cauvery delta, South India: Evidence for monsoon induced changes in provenance*” Presented at: “21st V.M. GOLDSCHMIDT” conference 2011, 14th- 19th August, Prague, Czech Republic.

Malik Zubair Ahmad and Pramod Singh “*Implication of Weathering, Texture and Mineral sorting on sediment geochemistry of Pleistocene- Holocene sediments from Cauvery Delta, South India*”. National Seminar on Sediments and Sedimentary rocks: Resource potential, depositional processes, Implication and environmental changes. XXIX Convention of Indian association of Sedimentologists (IAS-2012) 20-22 December, 2012.

Malik Zubair Ahmad, Srikanth, D. and Pramod Singh* (2011) “*Geochemistry of Late Pleistocene to Late Holocene sediments of two cores from Cauvery delta, Southern India – implications to the provenance*” UGC Sponsored National Seminar on “Basins of India, their Resources and Management”, Annamalai University, Chidambaram 17-18 February, 2011

Malik Zubair Ahmad and Pramod Singh, “*Geochemistry of core sediments from Cauvery Delta, South India: An inference to weathering and paleoclimate*”. National Seminar on Environmental Pollution. June 4-5, 2016, University Of Kashmir , Srinagar..

Malik Zubair Ahmad and Pramod Singh, “*Geochemical characteristics of Late Pleistocene to Holocene sediments of Cauvery Delta Southern India: Implications for weathering and provenance*” 12th Science Congress at University of Jammu Jammu 02-04 March 2017”

Malik Zubair Ahmad “*Floras in Carbonate rocks of Kashmir Himalaya : inference on Paleoclimate*”. Three days Lecture workshop on ' Biodiversity of Kashmir Himalaya' from 25-27 July 2017 at Satellite Campus Kargil

Malik Zubair Ahmad and Pramod Singh, “*Weathering and Paleoclimate Implications on Late Pleistocene to Holocene sediments from Cauvery Delta Southern India*”. Geochronology workshop at Inter University Accelerator Centre, New Delhi. 16th -17th Nov, 2018.

Malik Zubair Ahmad and Pramod Singh Rainfall and Relief induced changes on Provenance of sediments in Southern India 13th Session of Jammu and Kashmir Science Congress (JKSC-2018) March 17 – 19, 2018.

Pramod Singh, P.P.Mohapatra, **Z.A.Malik**, S.Doradola, A.H.Laskar, J. Saravanavel ,C.J.Kumanan ,M .G.Yadav ,S ,Balakrishnan , Anupama Krishnamurthy . “*Sea level and coastal changes during the Holocene in the Cauvery River delta, Southern India*”. PAGES IV Open Science meeting 2013. Goa.,

V.S. Sarma, N.S.Krishnamurthy, Pramod Singh,V. Ananda Rao,R.Rajesh, M. Srinivasu , D.Srikanth and **Malik Zubair Ahmad**. “*Electrical resistivity imaging (ERI) in some identified zones of Cauvery delta region- an integrated approach*”.

Book Chapters

Dad, J. M., & **Ahmad, M. Z.** (2022). “*Role of Grasslands in Soil Carbon Storage: Case Study from Alpine Grasslands of North-Western Kashmir Himalaya*”. In *Biodiversity, Conservation and Sustainability in Asia: Volume 2: Prospects and Challenges in South and Middle Asia* (pp. 23-32). Cham: Springer International Publishing.

WORKSHOPS

1. Participated in the, “*Application of Radiogenic Isotopes In geochronology and geochemistry*” sponsored by DST and organized by national Facility for geochronology and Isotope Geosciences at Department of Earth sciences, Pondicherry University, Puducherry during 15th – 20th December., 2008.
2. Delivered Lecture at “*Three days Lecture workshop on ' Biodiversity of Kashmir Himalaya*” from 25-27 July 2017 at Satellite Campus Kargil
3. Poster presentation at Geochronology workshop at Inter University Accelerator Centre, New Delhi. 16th -17th Nov, 2018
4. Participated in five-day workshop,” Science-Policy-Society Interfaces” conducted by Department of Environmental Science, University of Kashmir, Hazratbal, Srinagar (J&K). 5-9 th December 2022
5. Attended one day workshop on Authorship and Manuscript writing Techniques and Practices for Quality Publications organized by Directorate of Internal Quality Assurance (DIQA) on 22nd December, 2023

Resaerch Project

Project titled “A multiproxy approach to unravel the paleoclimatic and archaeological imprints of the Holocene in the Kashmir Himalaya” submitted under scheme State University Research Excellence (SERB SURE) November 2023 (Total Cost (INR) : 28,37,632)

Training programme/ /Refresher course/ General Orientation Course attended

1. Three weeks UGC sponsored “Orientation Course Inter-Disciplinary organized by UGC-Academic Staff College, University of Kashmir in collaboration, University of Kashmir, Srinagar - 190 006 (1st June to 21st June., 2016).

2. Three weeks UGC sponsored “Refresher Course Inter-Disciplinary organized by UGC-Academic Staff College, University of Jammu in collaboration, (3rd Feb to 21st Feb., 2019).
3. One week Faculty development Programme on “Emerging trends and challenges in Higher Education” organized by University of Ladakh. 15th -21st October 2021.
4. Five days workshop on “Science-Policy-Society Interfaces” Department of Environmental Science, University of Kashmir in collaboration with Government Degree College for Women's Sopore. 5th -9th December 2022
5. Two weeks UGC Research Methodology Course organized by Center for Himalayan and Trans-Himalayan studies and Department of Political Science. University of Ladakh held from 14-24 September 2022.
6. Two weeks UGC sponsored “Refresher Course in information Technology (Inter-Disciplinary) organized by UGC-Academic Staff College, University of Kashmir (July 18th to 31st July 2023).
7. Attended Online Webinar on “Higher Education and Society UGC-Malaviya Mission Teacher Training Centre University of Kashmir, Srinagar held on 02-01-2024.
8. Attended Online Webinar on “Cyber Security UGC-Malaviya Mission Teacher Training Centre University of Kashmir, Srinagar held on 03-01-2024.