

Utkarsh Ojha
M.Sc. Gold Medalist
(Geology)



ACADEMIC QUALIFICATIONS

EXAMINATION	YEAR OF PASSING	College/ INSTITUTE	BOARD / UNIV.	PERCENTAGE
M.Sc. (Geology)	2023	Lucknow University	Lucknow University	83.00
B.Sc. (Maths, Physics, Geology)	2021	Lucknow University	Lucknow University	71.50
Intermediate	2018	Spring Dale College	I.S.C	82.80
High School	2016	Spring Dale College	I.C.S.E	91.33

PROJECT EXPERIENCE

M.Sc. Dissertation title : Temporal Fluctuations in the Area and Water Quality Assessment of Ramgarh Tal, Gorakhpur Region, Ganga Plain, India.

Internship title: Assessment of Modern Environmental conditions of Ganga Plains through stable isotopic composition of gastropod shell.

RESEARCH INTEREST

Himalayan Geology, Fluvial Sedimentology and Stratigraphy, Palaeoclimate reconstruction using stable isotopes ,Medical Geology, River Science, Temporal Fluctuations in area and water quality assessment of lakes ,Geoheritage and Carbon Capture Utilization and Storage (CCUS) using geological formations.

ACADEMIC ACHIEVEMENTS

- Received three Gold medals (Saroj Dayal ,Dr. V.K. Saxena and Shanti Devi Bhatia) for securing first position in M.Sc. Geology, 2023 from Governor Uttar-Pradesh on 6th December 2023(<https://youtu.be/FNYRsdOT4-M>)
- Served as Secretary Science Club in Class XII and Organised Science competitions and exhibitions. Represented my school at IITR-Jigyasa.
- Scholarship holder in Class XIII ,IX and X in school.

SCIENTIFIC WORKSHOPS/COURSES ATTENDED

- Participated in 40th convention of *Indian Association of Sedimentologists (IAS)* held at BSIP Lucknow from 11th to 13th December 2024.
- Completed course on '*Climate Change: Carbon Capture and Storage*' CCUS conducted by Dr Erika Palfi and Dr. Mark Wilkinson from UNIVERSITY OF EDINBURGH <https://coursera.org/verify/FRJYT1JXKQ4A> .
- Completed training on '*Bamboo Processing and Utilization for Climate change*' organized by Indian Wood Science Technology Institute (IWST) Bangalore under MOEF&CC, GOI from 6th to 8th November 2023.
- Completed training program on "Sustainable Ground Water Development and Management" organized by C.G.W.B in 2021.
- Participated in online course on '*Advanced Geospatial technologies for Disaster Risk Reduction (DRR)*' by IIRS Dehradun April 2022.
- Participated in online course on '*Hyperspectral And Microwave Remote Sensing Techniques for Geological Studies*' by IIRS Dehradun March 2022.
- Completed short term courses on various disciplines of Geology such as *Coal Petrography, Fundamentals of Medical Geology, Geophysical Signatures Over Southern Granulite Terrane, Targetting Diamonds , PGE Minerals, Mapping in sedimentary Terrane, Mapping in Himalayan Terrane, Mineral exploration for Industrial and Fertilizer Minerals like Glauconite, Gemology ,GIS analysis ,Meteorites and Planetary Sciences* etc from Geological Survey of India Training Institute, Hyderabad (GSITI) through online mode during B.Sc. in 2021.
- Participated in online course on '*Geospatial Technology for Archeological Studies*' by IIRS Dehradun 2021.

- Participated in course '*Application of Geoinformatics in Ecological Studies*' conducted by IIRS ,Dehradun from 13th July to 24th July 2020.
- Participated in '*GEOCHRON*' an online lecture series organized by Department of Geology ,Presidency University ,Kolkata from 22nd August-27th September 2020.
- Completed O-Level and CCC certifications in 2020 from NIELET,Delhi.
- Participated in Walk to '*SAVE OUR GEOHERITAGE*' conducted by Birbal Sahni Institute of Palaeosciences on 21st July 2019.
- Participated in the 4th *India International Science Festival* (IISF) 5th-8th October 2018, held at Indira Gandhi Pratisthan Lucknow as an Undergraduate representative from Department of Geology.
- Participated in "*Young Scientist Competition*" program and presented concept of '*Methanol Economy to address climate change*' which was later on acknowledged by NITI Aayog. It was organised by CSIR- IITR for summer training in class XII from 29th May to 29th June 2017. Also participated in *CSIR-JIGYASA , " Be A Scientist"* programme on 24th April 2018 at CSIR-Indian Institute of Toxicological Research (IITR) Lucknow.
- <https://www.linkedin.com/in/utkarsh-ojha-a6ba09342> verify above docs

FIELD WORK AND PRESENTATIONS

Himalaya:

- My first field work was held in ***Nainital and adjoining areas***(February 2020)as undergraduate student where I was introduced to fragile geology of landslide prone Nainital and spectacular elephant skin weathering Stalactites, Stalagmites and their significance in palaeoclimate reconstruction by Dr. Ajay Mishra, Dr. B.S. Kotlia .
- ***Almora and adjoining areas*** in June 2022 under supervision of Dr. Rameshwar Bali and Dr. K.K. Agarwal learnt about tectonic evolution of Almora Crystalline Zone (ACZ) and Phosphorite deposits of Pithoragarh .

Ganga Plains:

- **Gorakhpur region** field work under supervision of Dr. Dhruvsen Singh in July 2023 for systematic collection of water and sediments samples from **Rapti , Ami river** and their confluence at Sohgaura village. I also did sampling from large **Ramgarh Tal** which serves as lifeline of the city for my M.Sc. dissertation work.
- Studied the '*Geomorphology of Ganga Plains*' and *peripheral bulge* neotectonics and calcretes as function past climate and hydrology in

Kanpur and Kalpi Areas in August 2023.

PreCambrian field works:

- Mahoba field introduced me to Bundelkhand Granites in August 2023.
- Chirakoot field visit exposed me to the Janki kund Stromatolites, Gupt Godavari, Sacred Kamadgiri hill and significant Glauconitic rocks.
- Presentation on *Tectonic Evolution of Himalaya* (<https://youtu.be/z5NM1qX1qt4>) in conventional mode.
- Presentation on *Role of Micro-organism in Banded Iron Formations* .

EXTRA CURRICULAR ACTIVITIES/ ACHIEVEMENTS

- Completed ***SANGIT VISHARAD (A five year course on Hindustani Classical music)*** from Bhatkhande Sangit Vidyapith, Lucknow in 2013.
- Bagged 2nd position in '**Swaranjali**' an interschool music fest 2012.
- Performed in '***SANSKRITIKI 2019***' by Lucknow University.
- Ghazal and Bhajan performances in various events.

SOFTWARE WORKED UPON

- Microsoft Advanced Excel with AI 2024, MS office, Magicnet IC , Win-Lab 32 for AAMS, Size Expert Software for LPSA-CILAS 1090.

INSTRUMENT WORKED UPON

- Atomic Absorption Mass Spectrometer for Heavy metal analysis.
- Isotope Ratio Mass Spectrometer(CF-IRMS) with Gas Bench mode for stable isotopic analysis Carbon and Oxygen in sample.
- Laser Particle Size Analyzer Cilas 1090.
- HANNA HI98129 Combo Meter kit for pH , EC and TDS of water.

REFERENCES

- 1- Prof. Dhruvsen Singh,
Professor and Head of the Department ,
Department of Geology,
University of Lucknow.
Mob.:+91 9839065737
E.Mail.- drdhruvsensingh@gmail.com
- 2- Dr. Amit Mehrotra, ICS
Chief (Acting incharge),
UNICEF State Office,
Uttar Pradesh
Lucknow.
Mob.: - +91 9005870011
E.Mail.- amehrotra@unicef.org
- 3- Dr. Shailesh Agrawal,
Scientist D,
Stable-Isotope Geochemistry Lab,
Birbal Sahni Institute of Palaeosciences,
53 University Road,
Lucknow.
Mob.: - +91 8795589667
E.Mail.- shailesh_agrawal@bsip.res.in
- 4- Shri. Ram Mohan Mishra,
Executive Chairman,
State Investment Promotion Board,
Government of Meghalaya,
Shillong.
Mob.: - +91 8575017989
E.Mail.- rmmishra1001@gmail.com



LUCKNOW UNIVERSITY CONVOCATION 2023
 (<https://youtu.be/FNYRsd0T4-M>)



PARTICIPATED IN WALK TO 'SAVE OUR GEOHERITAGE'