Shreya Mishra

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Interests

Permian and Mesozoic Palynology, Biostratigraphy, Palaeoenvironment, Palaeoecology, Origin of Angiosperms, Evolutionary Biology

Education

DOCTORAL RESEARCH | NOVEMBER, 2017 | KUMAUN UNIVERSITY

- Thesis Title: Permian and Triassic Palynology and its Palaeoenvironmental implications in Ayyanapalli – Sattupalli - Chintalapudi Coalbelt in Andhra Pradesh.
- Subject: Botany
- Supervisors: Dr. Neerja Jha (Scientist- G) and Prof. Sukhbir Singh Gahalain

CSIR-NET | JUNE, 2012 | COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH

- Rank: 22 (AIR)
- Subject: Life Sciences

M.SC. | JUNE, 2011 | UNIVERSITY OF LUCKNOW

- Division: First (Topper)
- Subject: Botany

B.SC. | JUNE, 2009 | UNIVERSITY OF LUCKNOW

- Division: First (Topper)
- Subjects: Zoology, Botany, Chemistry

INTERMEDIATE | MAY, 2006 | U.P. BOARD

- Division: First division with Honor
- Subjects: Physics, Chemistry, Biology

HIGH SCHOOL | MAY, 2004 | U.P. BOARD

- Division: First
- Subjects: Science Stream

Honors and Awards

BEST ORAL PRESENTATION PRIZE | 2019 | IGCP 679- CRETACEOUS EARTH DYNAMICS AND CLIMATE IN ASIA

- Award was received for giving best oral Presentation.

BEST PRESENTATION PRIZE | 2014 | MOHANLAL SUKHADIA UNIVERSITY, UDAIPUR

- Award was received for giving best Presentation at a Geoyouth-2014 Conference.

BIRBAL SAHNI MEMORIAL GOLD MEDAL | 2012 | UNIVERSITY OF LUCKNOW

- Award was given for scoring highest marks in M.Sc. Botany.

SRI. RISHIKESHWAR LAL SINHA & SMT. PREMA SINHA MEMORIAL GOLD MEDAL | 2012 | UNIVERSITY OF LUCKNOW

- Award was given to a girl scoring highest marks in M.Sc. Botany.

KAMAYANI MEMORIAL GOLD MEDAL | 2012 | UNIVERSITY OF LUCKNOW

- Award was given to a girl scoring highest marks in M.Sc. Botany.

PADMA SHRI MONACHANDRAWATI AWARD | 2010 | NARI SHIKSHA NIKETAN COLLEGE

- Award was given for scoring highest marks in B.Sc.

Grants Received

- Received a grant of 250 US$ for attending the IGCP-679.
- Received a DAAD Travel Grant of 1075 Euros for attending the 19th ICCP-2019.

Research Experience

BIRBAL SAHNI RESEARCH ASSOCIATE | BIRBAL SAHNI INSTITUTE OF PALAEOSCIENCES | 15TH MAY, 2019-21ST JUNE, 2021

- Palynology of Decaan trap associated sediments. The aim of the study was to infer palaeoenvironment, palaeoecology changes across a much-disputed K/T Boundary.

NATIONAL POST-DOCTORAL FELLOW | UNIVERSITY OF DELHI, DEPARTMENT OF GEOLOGY| 10TH OCTOBER, 2017-13TH MAY, 2019

- Palynology and palynofacies studies of the sediments deposited during Late Cretaceous. The aim of the study was to infer palaeoenvironment, palaeoecology changes across a much-disputed K/T Boundary along with the evolutionary biology of the pollen and spores.

BIRBAL SAHNI RESEARCH SCHOLAR | BIRBAL SAHNI INSTITUTE OF PALAEOSCIENCES |

2ND APRIL, 2012-1ST OCTOBER, 2015

- Palynology, palynofacies and taphonomic studies of the sediments deposited during Permian. The aim of the study was to infer palaeoenvironment, palaeoecology and biostratigraphy of the area along with the evolutionary biology of the pollen and spores.

PROJECT ASSISTANT-II | CENTRAL INSTITUTE OF MEDICINAL AND AROMATIC PLANTS |

2ND JANUARY, 2012-31ST MARCH, 2012

- The work includes study of an endemic plant *Litsea glutinosa* in relation with its economic importance and its conservation.

Teaching Experience

UNIVERSITY OF DELHI, DEPARTMENT OF GEOLOGY

10TH OCTOBER, 2017-13TH MAY, 2019

- I have taught the syllabus pertaining to Palaeobotany of the courses Palaeontology and Evolution of Life through Time to the undergraduate students of Geology (B.Sc. 2nd and 3rd year classes).

Workshop, Training and Conferences attended

- Workshops and Training: 7
- International Conferences and Seminars: 3
- National Conferences and Seminars: 10
- Abstracts Published: 10

Publications

PUBLISHED ARTICLES

1. Neerja Jha, Harinam Joshi, **Shreya Mishra** 2016. Record of Gondwana Plant fossils (Permian and Jurassic Cretaceous) in Nimugudem area, Telangana, India: palynodating and palaeoenvironmental interpretation. **Current Science**, 111(2):416-424.
2. **Shreya Mishra***, Neerja Jha, Harinam Joshi, S.S. Gahalain 2016. Palynological dating of sub-surface Gondwana sediments in Sattupalli area, Godavari Graben, South India. **Geophytology**, 46(1):1-8.
3. Neha Aggarwal, Neerja Jha, Harinam Joshi, **Shreya Mishra** 2016. Dispersed organic matter studies in Permian succession from Mamakanu Block of Godavari Graben, South India. **Journal of Indian Geological Congress (Awarded the O.P. Verma Award)**, 7(2):5-15.

4. **Shreya Mishra*,** Neha Aggarwal and Neerja Jha 2017. Palaeoenvironmental change across the Permian-Triassic boundary inferred from palynomorph assemblages (Godavari Graben, south India). **Palaeobiodiversity and Palaeoenvironments** (DOI:10.1007/s12549-017-0302-3). 98 (2): 177-204.
5. **Shreya Mishra*,** Neerja Jha, Sukhbir Singh Gahalain 2017. Taphonomic and palaeovegetational studies in early Permian (Asselian-Sakmarian) deposits of Chintalapudi Area, Godavari Graben, South India. **Revue de Micropalaeontology,** 60: 193-211. ***SNIP: 0.8***
6. **Shreya Mishra*,** Neerja Jha 2017. Early Permian (Asselian-Sakmarian) palynoflora from Chintalapudi area, Godavari Graben, South India and its Palaeoenvironmental implications. **Journal of the Palaeontological Society of India** 62, 23-40.
7. Neerja Jha, Neha Aggarwal, **Shreya Mishra** 2018. A review of the palynostratigraphy of Gondwana sediments from the Godavari Graben, India: Global comparison and correlation of the Permian-Triassic palynoflora. **Journal of Asian Earth Sciences,** 163: 1-21.
8. **Shreya Mishra*,** Vikram Singh. 2018. Palynology, palynofacies, and taphonomical studies of Kamthi Formation, (Godavari Graben), southern India: Implications to biostratigraphy, palaeoecology, and depositional environment. **International Journal of Coal Geology,** 195: 102-124**.**
9. Neha Aggarwal, **Shreya Mishra,** Neerja Jha, P.V. Shankar Rao. 2018. Palynostratigraphy and correlation of Gondwana sediments in Kothagudem sub-basin of Godavari Graben, South India. **Palaeobotanist,** 67: 123-138**.**
10. **Shreya Mishra**, Neerja Jha, A. Stebbins, M.E. Brookfield and R. Hannigan**.** 2019. Palaeoenvironmets, flora, and organic carbon and nitrogen isotope changes across the non-marine Permian-Triassic boundary at Wybung Head, Australia. **Palaeogeography Palaeocliatology Palaeoecology,** 534: 1-21.
11. **Shreya Mishra**, Shiva Prakash K.N., Mahi Bansal, Vandana Prasad. 2019. The stratigraphic, Palaeobiogeographic and phylogenetic significance of *Aquilapollenites.* **Open Journal of Geology,** 9: 597-600.
12. **Shreya Mishra**, Suryedu Dutta, Vikram P. Singh, Sumit Kumar, Runcie Paul Mathews, Neerja Jha. 2021. A new acritarch spike of *Leiosphaeridia dessicata* comb. nov. emend. from the Upper Permian and Lower Triassic sequence of India (Pranhita-Godavari Basin): Its origin and palaeoecological significance. **Palaeogeography, Palaeoclimatology, Palaeoecology,** 567, 110274. https://doi.org/10.1016/j.palaeo.2021.110274

PUBLISHED BOOK CHAPTERS

1. **Shreya Mishra***, Vandana Prasad. 2020. Upper Gondwana (Jurassic to Early Cretaceous) palynoflora of India: Its correlation with Gondwana continents and phytogeographical implications. In: Prasad, G.V.R. and Patnaik, R. (Ed.), Biological consequences of plate tectonics: New Perspective on post Gondwanaland break-up", Vertebrate Paleobiology and Paleoanthropology Series, Springer Intertnational Publishing. DOI: 10.1007/978-3-030-49753-8.
2. Vandana Prasad, **Shreya Mishra**, Ashish Misra and Mahi Bansal. 2020. Role of Plate Tectonics and global Climate change in the Evolution of Angiosperms. In: Prasad, G.V.R. and Patnaik, R. (Ed.), Biological consequences of plate tectonics: New Perspective on post Gondwanaland break-up", Vertebrate Paleobiology and Paleoanthropology Series, Springer Intertnational Publishing. DOI: 10.1007/978-3-030-49753-8.

POPULAR SCIENCE ARTICLES

1. **Mishra, S.** 2021. To the power of the Mighty pollen. The 5th Dual Newsletter, Department of Geology, University of Delhi, pp. 64-65.

MANUSCRIPTS UNDER REVIEW

1. Mahi Bansal, **Shreya Mishra,** Vandana Prasad. 2021. Biogeographic and evolutionary history of Crotonoideae based on pollen evidence from the Indian Late Cretaceous and Paleogene sediments. **Biotropica**.
2. **Shreya Mishra**, Sarvendra P. Singh, Mohammad Arif, Arvind K. Singh, Gaurav Srivastava, B.R. Ramesh, Vandana Prasad. 2021. Late Maastrichtian vegetation and hydroclimate: evidence from Deccan Volcanic Province of India. **Cretaceous Research.**