

# Dr. RANVEER SINGH NEGI

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## Research Interests:

**Palaeontology-** Biostratigraphy, basin and palaeo-environmental studies in Palaeozoic succession of the Himalaya.

## Research Profiles:

**Research Gate:**  
[https://www.researchgate.net/profile/Ranveer\\_Negi](https://www.researchgate.net/profile/Ranveer_Negi)

**ORCID:**  
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## Experience

**Birbal Sahni Institute of Palaeosciences** -20/07/2021 to Present.

Working as Scientist-B.

- Associated as a team member in in-house project-2 titled “biostratigraphy, basin correlation, climatic and biotic events during Palaeozoic & Mesozoic.”
- **2023-** Carried out a field excursion to the Tidong Valley of Kinnaur (Himachal Pradesh, India) in the Tethyan Himalaya to study the Palaeozoic (Cambrian–Silurian) strata.
- **2022-** Carried out a field trip to the Hojis & Tidong Valley of Kinnaur basin (Himachal Pradesh, India) in the Tethyan Himalaya to study the Palaeozoic strata.
- **2021-** Carried out a field trip to the Spiti basin (Chicham, Langza, Demul, Komic, etc. localities) of Tethyan Himalaya in Himachal Pradesh, India to study the Mesozoic strata.

**Geological Survey of India** -12/06/2015 to 20/07/2021

Position held as Assistant Geophysicist at Lucknow, Uttar Pradesh, India.

- Associated with site selection, programming, planning and executing field work related to seismic micro-zonation and other thematic mapping of various cities in Indo-Gangetic Plain, falling under Zone-IV, for disaster mitigation and earthquake preparedness.
- Excellent command in data acquisition with sophisticated seismographs like Stratavizor NZXP (Geometrics), Altus K2 (Kinometrics) for seismic studies and Syscal Pro (IRIS) for electrical surveys like resistivity, conductivity, induced or self-potentials, chargeability etc., all up to the depth of 60m +, below the ground level.
- Associated with the data acquisition via CG-5 gravity meters (Scintrex), magnetometers (GEM Systems), radiometers, etc., for basic geophysical and geological mapping to target the mineral prospecting areas.
- Had training on global navigational and satellite systems (GNSS) like Trimble, Leica, etc.

## Languages

English: Fluent

Hindi: Mother  
Tongue

German: Beginner  
Sanskrit: High  
School

- Had training on landslide mitigation, advanced seismology, management and administration capacity building, etc.
- Developed project concepts and quality assurance checks to discover the errors and optimise usability.

**Panjab University** – 12/12/2013 to 23/10/2019.

Position held as Research Scholar at Chandigarh.

- Associated with extensive fieldwork, sample collection processing, etc., to study the Litho-Bio-Chemostartigraphy across the Lower-Middle Cambrian boundary in Tethyan Himalaya.
- Good knowledge of fossils/microfossils like Trilobites, Small Shelly Fossils, Acritarchs, trace fossils, etc. and isotopic studies of stable isotopes like C, O and S.
- Basic knowledge of stable isotope ratio mass spectrometer, scanning electron microscopy, etc.
- Did extensive studies in structural, lithological, sedimentary, stratigraphical, taxonomical and paleo-environmental analysis and their correlations.

## Education

**Centre of Advanced Study, Department of Geology, Panjab University, Chandigarh.**

- PhD, Geology- 2013 to 2019.\*
- Master of Science (Honors School)) in Geology 2011 to 2013.\*\* (1<sup>st</sup> Division)
- Bachelor of Science (Honors School) in Geology-2008 to 2011. (1<sup>st</sup> Division)

**PNNM Geeta Adarsh Vidyalaya, Solan, Himachal Pradesh. (CBSE Board)**

- 12<sup>th</sup>, Biology, Physics, Chemistry, English- 2006. (1<sup>st</sup> Division)

**Kendriya Vidyalaya, Kinnaur, Himachal Pradesh. (CBSE Board)**

- 10<sup>th</sup>, English, Hindi, Maths, Science, Social Science- 2004. (1<sup>st</sup> Division)

**\*PhD Title-** DETAILED BIOSTRATIGRAPHY AND CARBON, OXYGEN AND SULPHUR ISOTOPIC STUDIES ACROSS THE CAMBRIAN SERIES 2- SERIES 3 (LOWER-MIDDLE CAMBRIAN) INTERVAL IN THE SPITI HIMALAYA, INDIA.

**\*\*M.Sc. Dissertation-** EVALUATION OF THE GROUNDWATER FOR DRINKING AND AGRICULTURAL PURPOSES AROUND DERABASSI AND BARWALA AREA.

## Awards

- Council of Scientific and Industrial Research: New Delhi, Delhi, IN 2013-10-01 | **CSIR-UGC-JRF**
- Ministry of Human Resource Development: New Delhi, Delhi, IN 2013-03-15 | **GATE 2013**
- All India **Sixth Rank** in Junior National Science Olympiad, 2001

## Memberships/ Affiliations

- Life Member– The Palaeontological Society of India
- Life Member– The Indian Association of Sedimentologists
- Member– The Society of Earth Scientists

## Publications

- **Negi, R.S.**, Singh, B.P., Bhargava, O.M., (2023). Integrated sedimentological and ichnological studies of the Cambrian of the Tidong Valley, Kinnaur, its correlation with Zaskar-Spiti regions, and reconstruction of the northern margin of Indian plate. *Journal of N.Jb. Geol. Palaeont. Abh.* 309(1), 1–18.  
<https://doi.org/10.1127/njgpa/2023/1141>
- Yin, L-M., Singh, B.P., Bhargava, O.N., Zhao, Y-L., **Negi, R.S.**, Meng, F-W., Sharma, C.A., (2017). Palynomorphs from the Cambrian Series 3, Parahio Valley (Spiti), Northwest Himalaya. *Palaeoworld*.  
<https://doi.org/10.1016/j.palwor.2017.05.004>
- Singh, B.P., Bhargava, O.N., **Negi, R.S.**, Zhao, Y-L., Yin, L.-M., Sharma, C. A., (2017). Additional trilobite fauna from the basal part of the Cambrian Series 3, Stage 5, Kunzam La (=Parahio) Formation, Parahio Valley, Spiti (Northwest Himalaya), India and its biostratigraphic significance. *Annales de Paleontologie* 103, 271–281.
- Singh, B. P., Bhargava, O. N., Sharma, C. A., Chaubey, R. S., Prasad, S. K., **Negi, R.S.**, Kishore, N., (2017). Treptichnus ichnogenus from the Cambrian of India and Bhutan: Its relevance to the Precambrian-Cambrian boundary. *J Palaeont Soc India* 62, 39–50.
- Singh, B.P., Chaubey, R.S., Bhargava, O.N., Prasad, S.K., **Negi, R.S.**, (2016). The Cambrian trilobite fauna from the Shian (Saybang) section, Pin Valley (Spiti) and its biostratigraphic significance. *Palaeoworld*.  
<http://dx.doi.org/10.1016/j.palwor.2016.04.002>.
- Singh, B.P., Virmani, N., Bhargava, O.N., **Negi, R.S.**, Kishore, N., Gill, A., (2016). Trilobite fauna of basal Cambrian Series 3 (Stage 5) from the Parahio Valley (Spiti), Northwest Himalaya, India and its biostratigraphic significance. *Annales de Paleontologie* 102, 59–67. <https://doi.org/10.1016/j.annpal.2016.02.001>
- Singh, B.P., Bhargava, O.N., Juyal, K.P., **Negi, R.S.**, Virmani, N., Sharma, C.A., Gill, A., (2015). Skeletal microfauna from the Cambrian Series 2 (Stage 4) Kunzam La (= Parahio) Formation, Parahio Valley, Spiti region (Tethyan Himalaya), India. *Current Science* 109, 2191–2195.

## Reports

### Co-authored the following geophysical reports in the Geological Survey of India:

- **2021-** An interim report on seismic microzonation studies of Moradabad city, Uttar Pradesh.
- **2020-** A report on seismic microzonation studies of Gorakhpur city, Uttar Pradesh.
- **2018-** A report on seismic microzonation studies of Meerut city, Uttar Pradesh.
- **2018-** Geotechnical assessment and instrument-aided monitoring of Narendranagar (Barkot) landslide, Tehri Garhwal District, Uttarakhand, for developing an early warning system (EWS).
- **2016-** A report on seismic microzonation studies of Amritsar urban agglomeration.

## Abstracts/ Presentations

Co-authored abstract in 36th International Geological Congress, 2020:

- Seismic microzonation and site response studies of Amritsar, India.
- Seismic hazard microzonation of Meerut, Uttar Pradesh, India.

Poster presentation in the Earth Sciences Section of 12<sup>th</sup> Chandigarh Science Congress, 2018:

- Trilobite, Acritarchs and Small Shelly Fossils across the Series 2(stage 4)-Series 3 (stage 5) boundary in Spiti Himalaya.

## Trainings/ Workshops

- **2022-** Effective Writing of Report, Scientific Publications and Presentation Skills in Earth Sciences” conducted by The Regional Training Division, Geological Survey of India, Central Region, Nagpur.
- **2022-**Fundamentals of Geological Mapping, a training conducted by the Regional Training Division, Geological Survey of India, Central Region, Nagpur.
- **2022-**Academic Integrity for Research Scholars, organised by Turnitin Education Network.
- **2022-**Research smarter and maximise your IP creation, organised by Clarivate.
- **2022-**Web of Science Core Collection Journals Selection Process, organised by Clarivate.
- **2020-** Demonstrated data acquisition via Stratavizor NZXP seismograph and interacted with the faculty members and students of Blooming Buds inter-college, Maniram, Gorakhpur, under the aegis of BHUVISAMVAD, a platform formulated by the Ministry of Mines, Government of India.
- **2019-** International Workshop on Advanced Seismology, Seismic Hazards Earthquake Engineering: Theory, Simulation, Observations at NIT, Agartala, Tripura.
- **2019-** Mineral Targeting Through Data Integration and Field Check, a training organised by the Regional Training Division, Geological Survey of India (Northern Region), Lucknow.
- **2019-** Geology for Geophysics and Chemists, training organised by Regional Training Division, Geological Survey of India (Northern Region), Lucknow.
- **2018-** Commissioning cum training of Geodetic reference station (Trimble Inc.USA) and its data acquisition, downloading processing at Geological Survey of India (Northern Region), Lucknow.
- **2016-**Training on data acquisition via 24-channel Stratavizor NZ seismograph and data processing via SiesImager software by Geometrics Inc. USA at Geological Survey of India (Northern Region), Lucknow.
- **2016-** Training on General Management Program on Administration, Finance and Vigilance conducted by Jaipuria Institute of Management, Lucknow and Regional Training Division, Geological Survey of India (Northern Region), Lucknow.
- **2016-**Refresher Course in Geophysical Mapping, organised by Regional Training Division, Geological Survey of India (Northern Region), Lucknow.
- **2016-** Technical training for high-recision GPS operating at Geological Survey of India, Eastern Region, Kolkata.

- **2016**-Training on Various processing modules of Geosoft at Geological Survey of India (Northern Region), Lucknow.

## Instruments/ Software Knowledge

### Instruments Operated:

- Seismographs
- Resistivity/IP meters
- Gravimeters
- Magnetometers
- Specific gravity/ Density meters
- GNSS Geodetic Receivers and Antennas, DGPS
- Scanning Electron Microscope

### Software utilised:

- Seisan
- Geopsy
- SeisImager
- IP2WIN
- Arc GIS
- Surfer, Grapher
- Leica
- Trimble
- GeoSoft
- CorelDraw
- Strater
- GeoSoft

## Supervision

- **2023**-Supervised the dissertation titled ' CAMBRIAN ICHNOLOGY FROM TETHYAN HIMALAYA: A CASE STUDY FROM KINNAUR, HIMACHAL PRADESH' of Ms Bhagya S Dev. The dissertation is submitted to the Central University of Kerala in partial fulfilment of the requirements for the degree of Master of Science in Geology.

## Additional Charges

- **2022**- Member of BSIP's Museum Committee.
- **2021-22**- Teaching and invigilator's duty for the AcSIR-Phd coursework program at BSIP, Lucknow.
- **2020**- Preparation of raw and processed data file of M-IV investigations in Geophysics Division, Geological Survey of India (Northern Region), Lucknow and their status maps.
- **2019**- Digital conversion of unpublished reports of Geological Survey of India (Northern Region), Lucknow.
- **2019**- Commissioning of the IP transmitters/receivers of Instrumentation GDD Inc., Canada, at Geological Survey of India (Northern Region), Lucknow.
- **2019**- Member of the commissioning and testing committee, Geophysics Division, Geological Survey of India (Northern Region), Lucknow, in commissioning of Digital Micro Earthquake Recorder, Nanometrics Inc, Canada.
- **2019**- Conducted Lok Sabha General Election 2019 for Mohanlal-Ganj Constituency, Uttar Pradesh, in the capacity of presiding officer.
- **2016**- Engaged as a protocol officer in welcoming and escorting Dr Sunil Baliram Gaikwad, Hon'ble M.P. Lok Sabha, Latur, Maharashtra, along with other dignitaries on their official visit to Lucknow.

***Last Updated on: 22/09/2023***