

**Dr. K. Milankumar Sharma, Ph.D.**  
**Assistant Professor (Earlier Geologist, GSI)**  
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### **Education**

- 2013, Ph.D. awarded under the topic “Reconstruction of palaeoclimate of Neogene-Quaternary sequences exposed around Baripada (District-Mayurbhanj Orissa) using palaeontological, biostratigraphic and sedimentological studies” from Centre of Advanced Study in Geology, Panjab University, Chandigarh.
- 2007, MSc. Geology (Hons), Panjab University, Chandigarh (1st Division).
- 2005, BSc. Hons Geology, Manipur University (1st Division, Gold medal).
- 2002, Higher Secondary School exam, Council of Higher Secondary Education Manipur (1st Division)
- 2000, Matric exam, Board of Secondary Education Manipur (1st Division).

### **Experience**

- Assistant Professor in Centre for Geography and Geology, School of Environment and Earth Sciences, Central University of Punjab, Bathinda from 31.08.2015 till date.
- UPSC geologists’ exam 2008; working experience in Geological Survey of India from 1st October 2010 to 30th August, 2015.
- Guest Faculty: Geological Survey of India, Training Institute, FTC, Saketi for conducting training of the newly recruiting officers of 36th and 37th GSI Orientation Course during 2013 and 2014.
- Lecturer (Contract basis): DAV College Jalandhar from 7th July, 2007 to 26th Feb. 2008.

### **Teaching Assignments**

#### **M.Sc. level**

##### **Teaching various topics in following courses of M.Sc. in Semester I**

- Principles of Stratigraphy and Palaeontology
- Sedimentology
- Lab- II (Palaeontology and Sedimentology)

##### **Teaching various topics in following courses of M.Sc. in Semester II**

- Igneous and Metamorphic Petrology
- Structural Geology
- Lab- III (Structural)
- Academic activities/Assignment based Seminar- I
- Field training - I (~10days), report writing and presentation
- Oceanography
- Field Geology

##### **Teaching various topics in following courses of M.Sc. in Semester III**

- Hydrogeology
- Remote Sensing and GIS

##### **Teaching various topics in following courses of M.Sc. in Semester IV**

- Stratigraphy of India
  - Engineering and Environmental Geology
  - Practical of Stratigraphy, Engineering and Environmental Geology.
- Supervised: M.Sc. dissertation/project.

### Research Project

#### Handled at Geological Survey of India:

- 'Study of cynodont, mammal and other vertebrate fossils in the Tiki Formation, South Rewa Gondawana Basin, M.P. and study the faunal correlation with other parts of the world' for the field season 2013-15 in Geological Survey of India, Central Headquater, Kolkata-16.
- 'Specialized Thematic Mapping of Subathu (=Nummulitics) and adjoining lithounits in parts of Degree Sheet nos. 53A, 53B and 53F in Sirmaur, Solan and Bilaspur districts, Himachal Pradesh' field season 2012-14 in Geological Survey of India, Chandigarh-33B.
- 'Delineation of lithostratigraphic units of Siwalik Belt in Kangra, Hamirpur, Mandi, Bilaspur and Una districts, Himachal Pradesh and Ropar district, Punjab' field season 2010-2012 in Geological Survey of India, Chandigarh-33B.

#### Ongoing

- Project: "Palaeoenvironmental, Palaeoclimatic and Palaeobiogeographic Reconstruction of Early and Middle Triassic Deposits of Damodor and Satpura Basins using Palaeontological, Sedimentological and Stable Isotope Proxies" funded by DST-SERB. Total cost of the project awarded: **Rs. 37, 18600/-**.
- **Project:** "Studies of the micro-vertebrates faunal diversity of Late Triassic Tiki Formation, Madhya Pradesh, India: An implication on global palaeobiogeography" funded by UGC. Total cost of the project awarded: **Rs. 6 Lacs. (Financial Sanctioned waiting)**
- **RSM Project:** Study of the vertebrate fossils of Miocene deposits of Kutch, Gujarat with special reference to the micro-vertebrates remains and their palaeoclimatic and palaeobiogeographic implications funded by Central University of Punjab, Bathinda under the Research Seed Money grant of Rs. 3 lacs.

#### Professional Recognition /Awards/Scholarship

- Qualified UPSC Geologists' exam, 2008.
- Senior Research Fellowship (UGC-SRF) from 13.02.2010 to 26.09.2010.
- Junior Research Fellowship (UGC-JRF) from 13.02.2008 to 12.02.2010.
- Qualified UGC-(NET + JRF) exams held on 17th June 2007.
- Gold Medal for standing First in BSc. Geology (Hons), Manipur University, 2005.

#### Peer Recognition

#### Area specializations/Research Interest

- Applied palaeontology, Stable Isotope analysis, palaeobiogeography, Sedimentology, Stratigraphy.

#### Publications

#### Research Papers

- K Milankumar Sharma, Rajeev Patnaik and Ningthoujam Premjit Singh, 2016. Clay mineralogy of the Late Miocene Baripada Beds (Mayurbhanj District, Orissa): Palaeoclimatic implications. International Journal of Applied Research, 2(7), p. 217-223.
- Ram Jivan Singh, **K. Milankumar Sharma**, Tamoghno Ghosh and Pankaj Kumar, 2015. Tectonic

architecture of the Palaeogene belt and adjoining lithostratigraphic units in Parwanoo-Subathu sector of the Himachal Himalaya, India. Indian Journal of Geosciences. v.69 (1), p. 31-44.

- **K. Milankumar Sharma** and Jitendra Kumar, 2015. Phytosaurian osteoderms from the Late Triassic Tiki Formation (Shahdol District, Madhya Pradesh) India. Journal of Palaeontological Society of India, v. 60(1), p. 45-50.
- **K. Milankumar Sharma**, Shyam Sundar Singh and Vipina P.V., 2015. A fossil assemblage from Dhok Pathan Formation (Middle Siwaliks) exposed near Polian Prohita (Una, Himachal Pradesh). E-journal of Earth Science India. v. 8(I), p. 15-31.
- **K. Milankumar Sharma** and Rajeev Patnaik, 2014. Miocene fishes from Baripada Beds, Orissa and their palaeoenvironmental, palaeobiogeographic and palaeoclimatic significances. Special publication of Palaeontological Society of India, no. 5, p. 291-323.
- Rajeev Patnaik, **K. Milankumar Sharma**, Lalit Mohan, Blythe A. William, Richard Kay and Prithijith Chhatrath, 2014. Additional vertebrate remains from the early Miocene of Kutch, Gujarat. Special publication of Palaeontological Society of India, no. 5, p. 335-351
- Ram Ratan, **K. Milankumar Sharma** and Rajeev Patnaik, 2014. First records of otoliths from the Siwaliks of India. E-journal of Earth Science India. v. 7(II), p. 49-54.
- **K. Milankumar Sharma** and Rajeev Patnaik, 2013. Record of Late Miocene suid, Tetraconodon intermedius, from Baripada Beds (Mayurbhanj, Orissa): age implication. Journal of Palaeontological Society of India, v. 58 (2), p. 213-218.
- **K. Milankumar Sharma** and Rajeev Patnaik, 2013. Additional fossil batoids (skates and rays) from the Miocene deposits of Baripada Beds, Mayurbhanj district, (Orissa, India). e-journal Earth Science India, v. 6(IV), p. 160-184.
- **K. Milankumar Sharma** and Rajeev Patnaik, 2010. Coprolites from the Lower Miocene Baripada Beds of Orissa. Current Science, v. 99(6), p. 804-808.

#### **Book Chapters**

#### **Review Articles**

#### **Popular Articles**

#### **Monographs**

#### **Technical Reports**

- 'Study of cynodont, mammal and other vertebrate fossils in the Tiki Formation, South Rewa Gondwana Basin, M.P. and study the faunal correlation with other parts of the world' for the field season 2013-15 in Geological Survey of India, Central Headquarter, Kolkata-16.
- 'Specialized Thematic Mapping of Subathu (=Nummulitics) and adjoining lithounits in parts of Degree Sheet nos. 53A, 53B and 53F in Sirmaur, Solan and Bilaspur districts, Himachal Pradesh' field season 2012-14 in Geological Survey of India, Chandigarh-33B.
- 'Delineation of lithostratigraphic units of Siwalik Belt in Kangra, Hamirpur, Mandi, Bilaspur and Una districts, Himachal Pradesh and Ropar district, Punjab' field season 2010-2012 in Geological Survey of India, Chandigarh-33B

## Workshop/Conferences

### Organised

- Organised a week workshop cum training program on *“Techniques of geological, geomorphological mapping and sampling process for geoscience research’* was organized by Centre for Geography and Geology during 13-03- 2017 to 17-03- 2017.
- One day Acquaintance program of IUAC, New Delhi, at Central University of Punjab Program Schedule, April 4, 2015.
- Workshop on *“GIS and Its Application: Recent Trend in Geography and Geology”* held from 15.2.2016 to 19.02.2016 organised by Centre for Geography and Geology, Central University of Punjab.

### Attended/ Presentation

- Presented a paper entitle *“Lithostratigraphy of Siwalik Group exposed in Chintpurni-Una area of the Himachal Himalaya, India”* at National Workshop on Indian Siwalik: Recent Advances and Future Research' 21-22 June 2017, at Geological Survey of India, Lucknow.
- Presented a paper entitle *“A case study on the manifestation of geological structures in the regional geomorphology at the Parwanoo-Dharampur-Solan-Subathu sections of Shimla Hills, Himachal Pradesh”* at 38<sup>th</sup> Indian Geographers meet, 2017 & National Conference on Sustainable Earth Resource development held at School of Earth Sciences, Banasthali University, Rajasthan, 18<sup>th</sup>– 20<sup>th</sup> march, 2017.
- Presented a paper on *“Lithostratigraphy and Tectonic structures of the Palaeogene belt in Parwanoo-Subathu sector of the Shimla Hills, Himachal Pradesh, India”*at 'International conference on Emergence and Evolution of the Indian Foreland Basin (EEIFB- 2016) held during November 18-19, 2016 at Centre of Advanced Study in Geology, Panjab University, Chandigarh.
- Presented invited talk under the topic ‘Stable Isotopes studies on vertebrate fossils and their sample preparation techniques’ at One day Acquaintance program of IUAC, New Delhi, at Central University of Punjab Program Schedule, April 4, 2015
- Participated in a *“Workshop & Special Lecture on “GIS and Its Application: Recent Trend in Geography and Geology”* held from 15.2.2016 to 19.02.2016 organised by Centre for Geography and Geology, Central University of Punjab.
- Presented a paper in ICSSR sponsored National Conference on ‘Education for Sustainable Development’ held on 4th and 5th February, 2016, Organized by Centre for Education , Central University of Punjab, Bathinda.
- Attended the *“36<sup>th</sup> IGC: A Unique Opportunity for Advancement in Geosciences”* on 3-4 December 2015, Lucknow.
- Attended and presented a pare entitled *‘Some field observations on the geology of the Paleogene belt of the Simla Hills, Himachal Pradesh, India’* National Conference on Paleogene of Indian Sub-continent held at GSI, Lucknow and BSIP Lucknow during 23rd & 24th April, 2015.
- Attended ‘Refresher course on *“Micropalaeontology with special emphasis on Foraminifera, Ostracodes and Bryozoa”* conducted by the Regional Training Institute, GSI, ER, Kolkata from 5<sup>th</sup> to 10<sup>th</sup> May 2014.
- Attended and presented a paper entitled *‘Microvertebrates from the Miocene deposits of Baripada Beds, Orissa: implication for taxonomy, palaeoenvironment and palaeoclimate’*. At the *“24th Indian Colloquium on Micropalaeontology and Stratigraphy”* held at Wadia Institute of Himalayan Geology, Dehradun during 18th -20th Nov. 2013
- Attended and presented a paper entitled *‘New fossil sharks from Miocene sediments of Baripada Beds, Orissa’* at Chandigarh Science Congress 2009 organised by Panjab University Chandigarh on 26th & 28th February, 2009.

- Attended and presented a poster entitled 'New fossil materials from Baripada beds (Mayurbhanj, Orissa)' at Chandigarh Science Congress 2008 organised by Panjab University Chandigarh on 14th & 15th March 2008.

#### **Research Grants**

- SERB. Total cost of the project: **Rs. 37, 18600/-**.
- UGC. Total cost of the project: **Rs. 6 Lacs.**
- CUPB-RSM: **Rs. 3 lacs.**

#### **Other Achievements:**

- Selected: INSA Visiting Scientist Fellowship (2017-2018)

#### **Research Students (JRF):**

- Y. Priyananda Singh CSIR-UGC- Net (DST-SERB-JRF)
- N. Amardas Singh CSIR-UGC Net + JRF

#### **Administrative Responsibilities at Central University of Punjab:**

- Member of Academic and Administrative Committee of Centre for Geography and Geology.
- Member of Curriculum Development Committee of Centre for Geography and Geology.
- Co-opted member of Syllabus Committee for Ph.D. Course Work.
- Co-opted member of Syllabus Committee for M.Sc.

#### **Collaboration:**

- Prof. Rajeev Patnaik, Centre for Advanced Studies in Geology, Panjab University, Chandigarh-14, India.
- Dr. Prosenjit Ghosh, Centre for Earth Sciences, Centre for Atmospheric and Oceanic Sciences, Indian Institute of Science, Bangalore 56012 India.