

**JYOTI SHARMA****Personal Details**

- Name : Jyoti Sharma
- Husband's Name : Ravi U. Sharma
- Date of Birth : 4 July 1980
- Gender : Female
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Mulund (East), Mumbai, India.
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**Educational Qualifications):**

Degree	University/ Board	Year	Subjects	Marks (%)
Higher secondary	ICSE	1996	English, Hindi, Maths, Science, computer Sc. Social studies	87.3
Senior secondary	ISC	1998	English, Biology, Chemistry, Physics, Computer science	75.2
B.Sc.	University of Lucknow	2002	Botany, Geology, Zoology	78.4
M.Sc.	University of Lucknow	2004	Geology	83.2
Ph.D.	University of Lucknow	2009	Geology	

**Thesis:**

**Thesis Title:** Palaeoclimatic Analysis Since Late Pleistocene From Monsoon And Non-Monsoon Climatic Zones Of Himalayan Region.

**Thesis Supervisor:** Dr. Amalava Bhattacharyya and Prof. I. B. Singh

The thesis work includes the analysis of lacustrine sediments using pollen/spores and environmental geomagnetism to understand the Quaternary climatic and vegetational changes from monsoon and non-monsoon climatic zones of Himalayan region. A comparative analysis of spatio-temporal relationship in climatic changes from two contrasting geographical regions of Himalaya was made.

**Academic Achievements:**

- Qualified the **Joint CSIR-UGC National Eligibility Test (NET)** December, 2004 and June 2004.
- **Shanti Devi Bhatia Memorial Gold medal**, 2004 in M.Sc. (Geology), University of Lucknow.
- **Prof. Mulk Raj Sahni Memorial Palaeontological Society of India Medal, 2004** for securing highest marks in Paleontology in M.Sc II (Geology), University of Lucknow.
- **Capt. V. K. Saxena Gold Medal, 2004** in M.Sc II (Geology), University of Lucknow.
- **Sri Ganesh Dayal Verma Memorial Scholarship** for securing highest marks in M.Sc I Geology in University of Lucknow.
- **Srimati Girijeshwari Devi Memorial Scholarship** B.Sc II (Geology), University of Lucknow.

## Research experience: 12 years (February 2005- 2017)

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1. **Junior Research Fellow in a DST sponsored project** entitled "Glacier morphology and Quaternary glacial history of Durung Drung Glacier, Zaskar, Laddakh, J & K state" under the supervision of Dr. Amalava Bhattacharyya at the Birbal Sahni Institute of Palaeobotany, Lucknow (February 2005 – November 2007).

As a part of training in Quaternary environmental studies I have learnt techniques involved in Pollen, chemical and environmental geomagnetic analysis (including identification of pollen especially plants growing in Alpine regions).

2. **Defence Laboratory, DRDO, Jodhpur (July 2008 – February 2012) as Scientist 'B' in Remote Sensing Group.**

In Defence laboratory my work was related to the application of satellite data and field measurements towards generating a database for specific spectral signatures of terrain feature. This data is utilized towards designing and analyzing techniques for camouflaging.

3. **DST Women Scientist (WOS) in Department of Earth Sciences, IIT Bombay. ( June 2012-June 2015)**

My present work is related to the reconstruction of paleovegetation and paleoclimate of Palaeocene Eocene sections from Kutch and Rajasthan region. This project has given me the opportunity to learn various methods adopted in Tertiary palynology.

4. **Assistant professor , Department of Geology, K. J. Somaiya College of Science and Commerce( September 2015- till date)**

## Trainings acquired:

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Participated in workshops or training courses. Acquired experience in advanced techniques involved in analyzing various proxy records in palaeoclimatic reconstruction, Remote sensing and GIS studies. These are

- Attended Summer Program on Tertiary Palynology at Birbal Sahni Institute of Palaeobotany, Lucknow (April- May 2012).
- Attended **International field workshop at Vastan Surat, Gujarat** organized by (PSI) Department of Geology, University of Lucknow (17<sup>th</sup> to 19<sup>th</sup> January, 2012).
- ISRO sponsored **Sixth Course on Application of Remote Sensing and GIS for Mineral Exploration** conducted by Geological Survey Of India Training Institute (January 22<sup>nd</sup> - April 5<sup>th</sup>, 2007) .
- DST sponsored workshop on **Geo Archeology And Human Response To Landscape Evolution** held at *Department of Geology, Anna University, Chennai*(October 13<sup>th</sup> -15<sup>th</sup> 2006).
- DST sponsored **Brainstorm Workshop in Palaeoclimate**, held at Department of Geography, University of Pune, Pune (November 25<sup>th</sup> -27<sup>th</sup>, 2005).
- DST sponsored training program on **Microwave Remote Sensing Data Processing And Analysis For Glacier And Snow Studies** conducted by *IIT Bombay*. (October 24-28,2005).
- DST sponsored contact course on **Lithofacies Mapping In The Sedimentary Basin Of Krishna-Godavari Tract Of Andhra Pradesh** conducted by *Geological Survey of India Training Institute*(August 24-31,2005).
- Palynological sessions of **SERC School On Concepts In Quaternary Geology** sponsored by DST held at *IIT Kanpur* (APRIL 6-7, 2005).

## **Outcome of research work:**

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### **Published Papers/ Technical reports :**

1. Paul, S., Sharma, J., Saraswati, P.K., and Dutta, S. 2015. Early Eocene equatorial vegetation and depositional environment: Biomarker and Palynological evidences from Cambay Basin, western India. *International Journal of Coal Geology*. 149, 77-92.
2. Sharma, J., and Saraswati, P.K., 2015. Lignites of Kutch, western India: Dinoflagellate biostratigraphy and palaeoclimate. *Revue de Micropaleontologie*, 58, 107-119.
3. Sharma J., Alimohammadian H, Bhattacharyya A, Ranhotra P S, Djamali M, Scharrer S, Bruch A., 2014. Exploratory palynological analysis of Quaternary lacustrine deposits around Damavand volcano, Northern Iran. *Journal of Geopersia*, 4 (1), PP. 1-10.
4. Bhattacharyya, A., Sharma, J., Shah, S. K. and Chaudhary, V. (2007). Climatic Changes During Last 1800 Yrs BP From Paradise Lake, Sela Pass, Arunachal Pradesh, North East Himalaya, in *Current Science*, vol. 93, no. 7, pp 983-987.
5. Sharma, M., Sharma, J., Raghavan, R.V. and Paturkar, R.T. (2011). Software development for computing proportion of prominent colors. Technical report (restricted). Defence laboratory, Jodhpur, DRDO.

### **Published Abstracts:**

6. Paul, S., Sharma, J., Dutta, S., Saraswati, P.K., 2013. **Early Eocene equatorial vegetation and depositional environment: Biomarker and palynological evidences from Cambay basin, western India.** Abst vol (2) of 26<sup>th</sup> International Meeting on Organic Geochemistry (IMOG 2013), 15<sup>th</sup> -20<sup>th</sup> Sep, Spain, 305-306 p.
7. Paul, S., Sharma, J., Dutta, S., Saraswati, P.K., 2013. **Palaeovegetation and depositional environment of Early Eocene lignite from Cambay basin: evidences from biomarker and palynological data.** Abst vol of Annual General Meeting of the Geological society of India and International Conference on future Challenges in Earth Sciences for Energy and Mineral resources, , 14<sup>th</sup> - 16<sup>th</sup> Nov, ISM Dhanbad, 162 p.
8. Sharma, J., 2013. **Palynological evidences of Early Eocene vegetation and climate from Cambay Basin, western india.** Abst vol of XXIV Indian Colloquium on Micropaleontology and Stratigraphy, 18<sup>th</sup> - 20<sup>th</sup> Nov , Wadia Institute of Himalayan Geology, Dehradun, 133p.
9. Paul, S., Sharma, J., Saraswati, P.K., and Dutta, S., 2014. **Reconstruction of the Late Palaeocene- Eocene vegetation of western India: evidences from organic geochemistry and palynology.** In The 31<sup>st</sup> Annual Meeting of TSOP held in Sydney, Australia from Sep 27 - Oct 3, 109-110p.
10. Sharma, J., Raghavan, R.V. and Paturkar, R.T., 2009. **Use of Vegetation Indices to Estimate Sub-pixel Vegetation Abundance.** ISRS Annual Convention and National Symposium on Advances in Geo-spatial Technologies with Special Emphasis on Sustainable Rainfed Agriculture, 17<sup>th</sup> -19<sup>th</sup> Sep, Nagpur, 56p.
11. Bhattacharyya, A., Sharma, J. and Shah, S.K., 2007. **Late Holocene Climatic Change from Paradise Lake, Arunachal Pradesh, Eastern Himalaya.** XXI Indian Colloquium Micropalaeontology and Stratigraphy, 16<sup>th</sup> -17<sup>th</sup> Nov, Birbal Sahni Institute of

Palaeobotany, Lucknow, 16p.

12. Sharma, J., Bhattacharyya, A. and Basavaiah, N., 2006. **Climate Change Around Zaskar Valley Based On Pollen From Glacial Lake Sediments.** Changing Scenario in Palaeobotany and allied subjects. 15<sup>th</sup> -17<sup>th</sup> Nov, Birbal Sahni Institute of Palaeobotany, Lucknow, 134p.

**Membership of Associations:**

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Life member of The Palaeontological Society of India