

# CURRICULUM VITAE

## Dr. Sarika Singh

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## Objective

To work in a challenging and stimulating environment which will help me in upgrading my knowledge and skills by learning from the organisation and contributing to its development.

## Academic Accomplishment

Name of Exam	University / Board	Passing Year	Percentage
<b>Ph.D. (Life Sciences)</b>	Bharathiar University, Coimbatore	2018	
<b>M.Sc. Environmental Studies</b>	School of Environmental Studies, University of Delhi	2008	70.5 %
<b>Bachelors in Education</b>	Central Institute of Education, University of Delhi	2006	69.1 %
<b>B.Sc. (H) Zoology</b>	Maityreyi College, University of Delhi	2005	61.7 %
<b>XII</b>	Kendriya Vidyalaya, CBSE	2001	74.2 %
<b>X</b>	Kendriya Vidyalaya, CBSE	1999	83.8 %

## Work Experience

- Currently working as Assistant Professor (Environmental Science), School of Earth Sciences, Banasthali Vidyapith, Banasthali, Rajasthan, joined as on 24<sup>th</sup> June, 2018.
- Worked as PGT – Biology in DALIMSS, NTPC Tanda (U.P.) from 25<sup>th</sup> April, 2016 to 13<sup>th</sup> February, 2017.
- Worked as Senior Research Fellow from October, 2010 to September, 2013 at Defence Institute of Physiology and Allied Sciences (DIPAS), Defence Research and Development Organisation (DRDO), Ministry of Defence, Timarpur, New Delhi.
- Worked as Junior Research Fellow from October, 2008 to September, 2010 at DIPAS, DRDO, Ministry of Defence, Timarpur, New Delhi.
- Ph.D. thesis entitled, '**Health Risk Assessment of Military Workforce Exposed to Electromagnetic Field from Radar at X and Ku Frequency Band**' under the supervision of Dr. Neeru Kapoor, Scientist F, DIPAS, DRDO.
- M.Sc. dissertation on "**Occupational Health and Safety Status of Sewage Workers in Delhi**".

## Academic / Administrative Activities / Responsibilities

Course reforms in UG syllabus, Preparation of new courses and course reforms in PG syllabi, Student Faculty Development program, Orientation of UG and PG students, Time table preparation, Store and Record Keeping, Maintenance of Instruments, Lab Verification, News Letter, Active Involvement in Departmental Fest - COSMOS, Departmental activities like organizing special invited lectures and events like World Ozone Day Celebration

## Publications

- Singh S, Mani KV, Kapoor N. Effect of occupational EMF exposure from radar at two different frequency bands on plasma melatonin and serotonin levels. *International Journal of Radiation Biology*. 2015; 91(5):426-434. DOI: 10.3109/09553002.2015.1004466.
- Singh S and Kapoor N. Occupational EMF exposure from radar at X and Ku frequency band and plasma catecholamine levels. *Bioelectromagnetics*. 2015; 36:444-450. DOI: 10.1002/bem.21925.
- Singh S, Kapoor N. Health Implications of Electromagnetic Fields, Mechanisms of Action, and Research Needs. *Advances in Biology*. 2014; Vol. 2014: Article ID 198609, 24 pages. doi:10.1155/2014/198609.
- Got published my dissertation work on Sewage workers as a brief report titled “Safe worker? Or Safer Workplace” by Hazard Centre, an NGO on 21<sup>st</sup> October, 2010 which also got media coverage in eminent newspapers.

## Trainings / Conferences / Seminars

- Participated and presented paper (poster) entitled, “EMF exposure form X and Ku band Radar on oxidative stress biomarkers in military personnel” in 107th Indian Science Congress, organized by The Indian Science Congress Association (Professional Body under Department of Science and Technology, Ministry of Science and Technology, Govt. of India) in University of Agricultural Sciences, Bengaluru, Karnataka from 3rd to 7th January, 2020.
- Presented paper entitled, “Climate Change and Health Risks – A Harsh Reality” in National Conference on Climate Change and Sustainable Development: Issues and Policy Initiatives organized by S. S. Jain Subodh P.G. College, Jaipur from 23<sup>rd</sup> to 24<sup>th</sup> December, 2019.
- Participated in 3<sup>rd</sup> Induction Training Programme organized by Faculty Development Centre, Banasthali Vidyapith from 18th November to 17 December, 2018, sponsored by Ministry of HRD, Govt. of India and obtained grade A<sup>+</sup>.
- Attended one-week FDP on Academic Writings: Material, Method, Manner organized by Faculty Development Centre, Banasthali Vidyapith from 27th October to 02 November, 2018.
- Attended a workshop on ‘Research Methodology and Biostatistical Analysis’ at Institute of Cytology and Preventive Oncology (ICPO), ICMR, Noida (UP) from 29<sup>th</sup> September to 28<sup>th</sup> October, 2014.
- Attended a workshop on ‘Protocol Development and Research Paper Writing’ at Institute of Cytology and Preventive Oncology (ICPO), ICMR, Noida (UP) from 13<sup>th</sup> to 16<sup>th</sup> October, 2014.
- Oral presentation at the 61<sup>st</sup> National Conference of Occupational Health organized by Indian Association of Occupational Health, Vadodara from 16<sup>th</sup> – 19<sup>th</sup> Feb., 2011 on the topic, “A pilot study on the Occupational Health and Safety Status of Sewage Workers in Delhi”
- Attended a National symposium on, “Microwave Measurements & Applications, Biological Effects and Applications in Nanoscience” organized by Microwave Applications Society of India, Jawaharlal Nehru University at New Delhi from 4<sup>th</sup> to 5<sup>th</sup> March, 2011.
- Attended an International conference on, “Preventing Emerging Occupational and Environmental Risks in South Asia and Beyond” organized by Centre for Occupational and

Environmental Health at Maulana Azad Medical College, New Delhi from 17<sup>th</sup> to 19<sup>th</sup> December, 2009.

### Membership of Scientific Societies

- Indian Science Congress Association, Life Member (Membership No. L22551)
- Indian Association of Occupation Health, Life Associate Member

### Achievements /Awards / Honours

- Awarded consolation prize for oral paper presentation on the topic, “Climate Change and Health Risks – A Harsh Reality” in National Conference on Climate Change and Sustainable Development: Issues and Policy Initiatives organized by S. S. Jain Subodh P.G. College, Jaipur from 23<sup>rd</sup> to 24<sup>th</sup> December, 2019.
- Awarded DRDO Fellowship for JRF/SRF in 2008.
- Scored 93% (highest marks in school) in **Mathematics Olympiad Contest** in class Xth.
- Scored 95% marks in Mathematics in Xth standard.

### Training / Technical Skills

- Working knowledge of instruments like Spectrophotometer, Air Sampler, DPOAE Meter, Tympanometry, ELISA Reader, Hematology Analyser etc.
- Working knowledge of biochemical assays and Comet Assay.
- Working knowledge of statistical software like SPSS, GraphPad Prism.
- Computer proficiency in Microsoft Office and Internet Explorer.

### Projects Undertaken

- North- South Debate
- Energy & Environment
- Noise pollution and its Control
- Water Consumption and Demand
- Chemical Treatment of Waste Water
- Environmental Economics of Bio-diesel
- Ecological & Social Impact of Bt-Cotton
- Application of Remote Sensing in Glaciology

### Fieldvisits

- **2007: NTPC Dadri, Uttar Pradesh:** Learnt about the process of electricity generation and the measures to check pollution in a power plant along with know-how of Ash Mound and various ways to utilize the ash generated at the power plant.
- **2007: Kuno and Chambal Sanctuary, Madhya Pradesh:** Learnt about the different methods of species conservation.
- **2006: Yamuna Biodiversity Park, Wazirabad, New Delhi:** Learnt about the reclamation of degraded land.

## Internship / Volunteering Work

- A summer internship in **WWF- India** in Communications division where wrote short stories, articles and organized green law lecture during the month of June- July 2007.
- Worked as volunteer in the workshop on Water Quality organized at American Embassy School, Delhi as per part of their '**India Week**'.
- Worked as a volunteer for **Vigyan Vijay Foundation** to generate awareness among school students about composting and vermiculture and also presented their project on solid waste management at SES, DU.
- Worked as a volunteer for awareness generation for the protection of Sanghai with **North-East Centre for Education and Research, Manipur** in 2008.
- Worked as a volunteer with Prayas, Juvenile Aid Centre to educate the children in 2006.

## Extracurricular activities

- Won 1<sup>st</sup> prize in Wall Debate at Central Institute of Education, DU in 2006
- Won 2<sup>nd</sup> prize in Intra College Botany Quiz Competition in 2003 at Maitreyi College, DU
- Won 1<sup>st</sup> prize in Collage competition in Zoology Festival "Crysalis" at Maitreyi College, DU
- Participated in "**Kabbad Ka Juggad**" at Aravali Biodiversity Park on Environment day, 2008
- Participated in Slide making competition, quiz, drawing, collage, skit, group song, group dance at the college level

## Personal Profile

Husband's Name : Mr. Digvijay Kumar  
Date of Birth : 5<sup>th</sup> May, 1984  
Nationality : Indian  
Gender : Female  
Hobbies : Art & craft, Listening Music, Reading, and watching TV  
Marital Status : Married  
Languages Known : English and Hindi

## References

Dr. Shashibala Singh, Director, National Institute of Pharmaceutical Education and Research (NIPER), Hyderabad, Ex DS & Director General - Life Sciences (LS), DRDO, Ministry of Defence, E-mail: projectdirector@niperhyd.ac.in

Dr. Subhashree Mishra, Scientist 'C', Oceanography Orientation Division (OOD), CSIR - National Institute of Oceanography, Goa, E-mail: subhashree@nio.org

Retired Prof. Mihir Deb, Ex-Director, School of Environmental Studies, Ex-Dean, Nalanda International University, Nalanda, Bihar, E- mail: mihirdeb@gmail.com

Mr. Dunu Roy, Director, Hazards Centre, 92H 3<sup>rd</sup> Floor, Pratap Market, Munirka, New Delhi-110067, E- mail: hazardscentre@gmail.com

**Declaration**

I hereby declare that the above information given by me is completely true according to my best knowledge and belief.

Date:  
Place: Banasthali

(Sarika Singh)  
Signature of Candidate