

Curriculum vitae

Jayant Karwadiya

Prime Minister Research Fellow

Environmental Nanoscience Laboratory, Indian Institute of Science Education and Research Kolkata, Nadia, West Bengal, India-741246

jk21rs069@iiserkol.ac.in, jayantkarwadiya@gmail.com

+91- 8319650422

06/11/1997

Current Supervisor- Dr. Gopala Krishna Darbha (Associate Professor), DES, IISER-K.



Research interests

Emerging contaminants (assessment, fate, and transport), contaminant geochemistry, and ecotoxicity.

Educational qualifications

Qualification	Institute/School/University	Year	CPI/%
Ph.D. in Earth Sciences	IISER Kolkata	2021-current	-
M.Sc. Environmental Sciences (Environmental Biotechnology)	Institute of Environment and Sustainable Development, Banaras Hindu University, (IESD-BHU), Varanasi	2019-2021	8.67
B.Sc. (Hons.) Biological Sciences	Sri Venkateswara college, University of Delhi (DU), New Delhi	2016-2019	7.095
XII (AISSCE, CBSE)	Kendriya Vidyalaya Neemuch, MP	2015	86%
X (AISSE, CBSE)	Kendriya Vidyalaya Neemuch, MP	2013	8.8

Work experience/ Internship

Master's thesis | Analysis of plants, water, and soil samples collected from West Bengal, and the application of thiourea- microbial consortia for arsenic stress amelioration in chickpea. (Jan to June 2021)

Supervisor- Dr. Sudhakar Srivastava (Assistant Professor)

Institute of Environment and Sustainable Development, Banaras Hindu University, Varanasi.

Short-term Internship | Kyushu Institute of Technology, Fukuoka, Japan (Feb 2019) under Sakura Science Fellowship program funded by Japan Science and Technology (JST).

Supervisor- Dr. Hiroaki Wagatsuma (Associate Professor)

Teaching Assistantship

Teaching assistant, ES2202- Introduction to Environmental Sciences at IISER-K. (2022)

Publications

Singh, S., **Karwadiya, J.**, Srivastava, S., Patra, P.K. and Venugopalan, V.P., 2022. Potential of indigenous plant species for phytoremediation of arsenic contaminated water and soil. **Ecological Engineering**, 175, p.106476.

Majumdar, A., Upadhyay, M.K., Giri, B., **Karwadiya, J.**, Bose, S. and Jaiswal, M.K., 2022. Iron oxide doped rice biochar reduces soil-plant arsenic stress, improves nutrient values: An amendment towards sustainable development goals. **Chemosphere**, p.137117

Book chapters

Yadav, M., Singh, G., **Karwadiya, J.**, Chengatt, A.P., Sebastian, D.P. and Jadeja, R.N., 2022. Waste to Bioenergy: A Sustainable Approach. In *Bioenergy Crops* (pp. 164-186). CRC Press.

- ▣ Singh, G., Singh, A., Shukla, R., **Karwadiya, J.**, Gupta, A., Naheed, A. and Mishra, V.K., 2021. Occurrence, Fate, and Remediation of Arsenic. *Pollutants and Water Management: Resources, Strategies and Scarcity*, pp.349-376.

Awards and academic achievements

- ▣ Awarded Prime Minister Research Fellowship (**PMRF 2022**) for pursuing PhD by Ministry of Education, Government of India.
- ▣ Qualified **GATE 2021** examination in Environmental Sciences and Engineering (ES).
- ▣ Qualified **UGC NET June 2020** examination for the subject of Environmental Sciences.
- ▣ Awarded National Fellowship (NFSC) for the UGC NET June 2020 exam.
- ▣ Awarded '**Sakura Fellowship in Science**' by Japan Science and Technology (JST), 2019 to attend an internship at Kyushu Institute of Technology, Japan. Selected through IIT Kanpur.
- ▣ Qualified competition exam of Vidyarthi Vigyan Manthan (2013)

Conferences and workshops

- ▣ Convergence, 2022- DES day at IISER Kolkata (2022) (**Poster**)
- ▣ International conference on "Sustainable Agricultural Development in Changing Global Scenario" at BHU, Varanasi (2019) (**Poster**)
- ▣ National Conference on "Emerging Environmental Challenges and Development", New Delhi (2018) (**Poster**)
- ▣ GIAN workshop on 'Bio-inspired robotics' at IIT Kanpur (2018)
- ▣ International Workshop on 'Life in Space (v.1)', Ahmedabad (2018)
- ▣ Workshop on "Life Cycle of Butterfly" held at Sri Venkateswara College, DU, New Delhi (2018)

Online certificate courses

- ▣ 'Discover best farming practices for a sustainable 2050'- the University of Western Australia- Coursera- 93.50%
- ▣ 'Bacterial Genomes I: From DNA to protein function using Bioinformatics' hosted by Wellcome Genome Campus Advanced Courses and Scientific Conferences- [A]
- ▣ 'Introduction to algae'- University of California, San Diego- Coursera- 91.83%
- ▣ 'Electronic Waste Management- issues and challenges'- Swayam [S]
- ▣ 'Water, Society, and Sustainability'- Swayam [B]

Technical and other skills

- ▣ **Software packages and libraries-** qGIS, Origin, e-FTIR, Endnote, X'Pert highscore plus, MS PowerPoint, MS-Excel, MS-Word, Sketch up.
- ▣ **Instruments-** UV/visible spectrophotometer, DLS, FTIR, ICP-OES, AGE, CHNS/O, etc.
- ▣ **Languages-** English, Hindi

Declaration

I hereby declare that the above-written particulars are true to the best of my knowledge.

- **Jayant Karwadiya**