

## Dr. NISHITHA JEVITA D'SOUZA

Phone: +91 9916823370

Email: [shoan500@gmail.com](mailto:shoan500@gmail.com)

ResearchGate link: <https://www.researchgate.net/profile/Nishitha-Dsouza>

Scopus link: <https://www.scopus.com/authid/detail.uri?authorId=57211521274>

ORCID: [0000-0002-6990-701X](https://orcid.org/0000-0002-6990-701X)



### ACADEMIC PROFILE

---

**PhD** Manipal Institute of Technology, Awarded (August 6<sup>th</sup> 2022)  
Manipal Academy of Higher Education,  
Manipal,  
Department of Civil Engineering

**Research topic:** “Reconstructing the Past Contamination in The Estuaries of Karnataka Coast Using Geochemical and Sedimentological Proxies with Isotope Dating”

**Research guide:** Dr. K Balakrishna

#### **M. Tech Environmental Engineering**

Manipal Institute of Technology,  
Manipal Academy of Higher Education,  
Manipal,  
Department of Civil Engineering

June 2015

**Thesis:** “Study of spatial and temporal variations in the chemistry of surface water and sediments of Sita River, Karnataka.”

**Research guide:** Dr. K Balakrishna

**BE** Department of Civil Engineering,  
Visvesvaraya Technological University,  
Graduated Jawaharlal Nehru National College of Engineering

June 2004

### HONORS AND AWARDS

---

**Junior Research Fellow** 2018-2020  
Worked under the Ministry of Earth Sciences funded project

**Senior Research Fellow** 2020-2022  
Worked under the Ministry of Earth Sciences funded project

Second position in MTech Environmental Engineering (2013-2014)

## **TEACHING EXPERIENCE**

---

1. Shri Madhwa Vadiraja Institute of Technology and Management,  
Bantakal  
**Assistant Professor**, Department of Civil Engineering June 2015 to June 2018
2. Srinivasa School of Engineering, Mukka  
**Lecturer**, Department of Civil Engineering July 2012 to Dec 2012
3. **St. Joseph Engineering College Mangaluru** Sep 2022 to present

## **INDUSTRIAL EXPERIENCE**

---

With around **5 years** of Experience in the field of PHE (Public Health Engineering) in particular, my brief list is entailed as below.

1. **M/S. SYS-N CONSULTANCY BANGALORE.**  
**Duration:** Sep 2009 to Dec 2011.  
**Designation:** Design Engineer (PHE)
2. **M/S POTENTIAL CONSULTANTS BANGALORE (P) LTD.**  
**Duration:** Jan 2007- Aug 2008  
**Designation:** Design Engineer (PHE)
3. **M/S SOBHA DEVELOPERS (P) LTD., BANGALORE.**  
**Duration:** Jan 2005- Dec 2006  
**Designation:** Jr. Design Engineer (PHE)

## **SKILLS**

---

Handled following instruments during my PhD tenure:

ICP-OES (Inductively Coupled Plasma - Optical Emission Spectrometry)

AAS (Atomic Absorption Spectroscopy)

TOC (Total Organic Carbon Analyzer)

UV Spectrophotometer

Qualitative and Quantitative Analysis of trace elements in sediments and water samples

Proficient in designing building structures (AutoCAD)

Capable of organizing field campaigns- estuarine and riverine sampling . Familiar in processing and analyzing geochemical samples.

## PUBLICATIONS

---

- 1) **Nishitha D**, Akshitha V, Arun K, Amrish VN, Praveenkumarreddy Y, Khare N, Udayashankar HN, Manjunatha BR and Balakrishna K (2021) Dissolved carbon and silica fluxes from Kali, Sharavati and Sita-Swarna rivers, Southwestern India. *Journal of Environmental Management*, 286: 112273  
<https://doi.org/10.1016/j.jenvman.2021.112273> Impact factor = 8.910 (Q1)
- 2) **Nishitha D**, Sudheer AK, Arun K, Amrish VN, Mahesh G, Udayashankar HN, Balakrishna K (2022). Risk assessment and Spatio-temporal distribution of dissolved trace metals in Swarna, Sharavati and Kali estuaries, South-West Coast of India. *Environmental Science and Pollution Research*, pp. 1- 18. <https://doi.org/10.1007/s11356-022-22812-4> Impact factor = 5.190 (Q1)
- 3) **Nishitha D**, Amrish VN, Arun K, Warriier AK, Udayashankar HN, Balakrishna K (2022). Study of trace metal contamination and ecological risk assessment in the sediments of a tropical river estuary, Southwestern India. *Environmental Monitoring and Assessment*, 194:94. [10.1007/s10661-021-09728-1](https://doi.org/10.1007/s10661-021-09728-1) Impact factor = 3.307 (Q2)
- 4) **Nishitha, D.**, Praveenkumarreddy, Y., Khare, N, Udayashankar, H. N and Balakrishna, K. (2019). Spatio-temporal variability of trace metals and major ions in a small tropical river, Southwest Coast of India. *Environmental Monitoring and Assessment*, 191: 698  
<https://link.springer.com/article/10.1007%2Fs10661-019-7852-y> Impact factor = 3.307 (Q2)
- 5) Arun K, Balakrishna K, Amrish VN, **Nishitha D**, Udayashankar HN, and Manjunatha BR, Khare N (2022). Chemical denudation in a small mountainous coastal river in the tropics: Insights from Kali River, Southwestern India. *Applied Geochemistry*, 137:105198.  
[10.1016/j.apgeochem.2022.105198 \(Q1\)](https://doi.org/10.1016/j.apgeochem.2022.105198) Impact factor = 3.841 (Q1)
- 6) Amrish VN, Arun K, **Nishitha D**, Balakrishna K., Udayashankar HN, and Khare N (2022). Major ion chemistry and silicate weathering rate of a small Western Ghats River, Sharavati, southwestern India. *Applied Geochemistry*, 136: 105182.  
[10.1016/j.apgeochem.2021.105182 \(Q1\)](https://doi.org/10.1016/j.apgeochem.2021.105182) Impact factor = 3.841 (Q1)
- 7) Samal, P., Singarasubramanian, S. R., Manoj, M. C., Srivastava, J., **Dsouza, N.**, Balakrishna, K., and Ali, S. (2022). Heavy metal contamination assessment and its associated human health risk evaluation in the Mahanadi River sediments, India. *International Journal of Environmental Science and Technology*, 1-22. <https://doi.org/10.1007/s13762-022-04630-w> Impact factor = 3.519 (Q1)
- 8) Balakrishna, K., Praveenkumarreddy, Y., **Nishitha, D.**, Gopal, C.M., Jayakrishna, K. S., Krishnamurthy, Bhat., Khare, N, Dhangar, K., and Manish, K. (2023). Occurrences of UV filters, Endocrine Disruptive Chemicals, Alkyl Phenolic Compounds, Pharmaceuticals, Fragrances, and Hormones in the Waste and Coastal Water of the Antarctica. *Environmental Research*, Impact factor = 8.431 (Q1). <https://doi.org/10.1016/j.envres.2023.115327>

## CONFERENCES

---

1. D'Souza Nishitha, V.N Amrish, Arun Kumar, K. Balakrishna, and H.N Udaya Shankar (2021). Biogeochemistry of Nutrient, dissolved Silica along the salinity gradients of three Estuaries, Southwest coast of India". First annual conference on "*Frontiers in Geosciences Research Conference (FGRC-2021)*" during 27<sup>th</sup> -28<sup>th</sup> September 2021.
2. D'Souza Nishitha, K. Balakrishna, and H. N. Udaya Shankar (2020) "Estimate of gross and net fluxes beyond the estuarine zone of Kali, Sharavati and Sita-Swarna to the Arabian Sea, west coast of India". International Conference (26<sup>th</sup>) on "*Advances in Applied Physics and Earth Sciences*", Manipal University, Jaipur, 18<sup>th</sup> to 20<sup>th</sup> December 2020.
3. D'Souza Nishitha, K. Balakrishna, H. N. Udaya Shankar, and Anish Kumar Warriar (2020) "Assessment of metal contamination in the sediments of Sita –Swarna estuary, southwest coast of India". International Conference on *Water: From Pollution to Purification (ICW 2020)*, Mahatma Gandhi University, Kottayam, Kerala, 12<sup>th</sup> -14<sup>th</sup> December 2020.
4. D'Souza Nishitha, Keshava Balakrishna, Kumar Arun, Vadakkevedu Narayan Amrish, Athiyarath Krishnan Sudheer, and Harikripa Narayana Udayashankar (2022). "Impact of dissolved trace metals on human health in tropical river estuaries, South-West Coast of India". *Goldschmidt-2022 International Conference*, Honolulu, Hawaii, USA, 11<sup>th</sup> – 15<sup>th</sup> July 2022.

## PROFESSIONAL TRAINING

---

- Participated in 5 days GIAN course on "Geochemical Monitoring of Rivers-Theory, Practice, and Data Interpretation" from 22<sup>nd</sup> to 27<sup>th</sup> November 2018 at IIT Kanpur.
- Participated in 5 days GIAN course on "Managing Coastal Systems, A Biogeochemical Perspective" from 24<sup>th</sup> to 28<sup>th</sup> September 2018 at Department of Marine Geology, Mangalore University, India
- Participated 5 days National Level Faculty Development Programme on "Advanced Surveying" from 23<sup>rd</sup> to 27<sup>th</sup> January 2017 at Sri Venkateshwara College of Engineering, Bangalore, India

## LANGUAGES

---

**Konkani:** Native speaker

**English:** Advanced reading and writing

**Konkani:** Speaker, advanced reading, and writing

**Kannada:** Advanced reading and writing