

# Air Quality Researcher



**JITHIN JOSE**

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## Address for Communication

TF-2, Sri Krishna Apartments,  
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## Personal Information

Sex : Male  
Pronouns : He/Him  
Date of Birth : 20 March 1991  
Blood Group : 0 +ve  
Father : Jose S. G.  
Mother : Ceita R Miranda  
Spouse : Dr. Shency Savio  
Nationality : Indian

## Languages Known

English - Speak, Read, and Write  
Malayalam - Speak, Read, and Write  
Tamil – Basic speaking and comprehension

## Reference

### **Dr. B. Srimuruganandam**

Professor and Director,  
Centre for Clean Environment,  
Vellore Institute of Technology,  
Vellore – 632014, Tamil Nadu.

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### **Dr. Gufran-ullah Beig**

Chair Professor,,  
National Institute of Advanced  
Studies,

Bengaluru, Karnataka, India.

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## AREAS OF INTEREST

- ❖ Expert in air pollution monitoring, dispersion modeling, source apportionment, emission inventory development and health risk assessment. Good publication record in air pollution and road dust related topics.
- ❖ Good practical knowledge of High and Low Volume Samplers, Federal Equivalent Sensors, Low-cost Sensors, Scanning Electron Microscopy, Inductively Coupled Plasma Optical Emission Spectroscopy, and Ion Chromatography. Worked on GIS and environmental monitoring.

## ACADEMIC

| <i>Qualification</i>   | <i>University / State Board</i> | <i>Year of Passing</i> | <i>CGPA/ Percentage</i> |
|--|---------------------------------|------------------------|-------------------------|
| <b>Ph.D. (Environmental Engineering)</b><br>Vellore Institute of Technology, Vellore, Tamil Nadu.                | Vellore Institute of Technology | 2022                   | 8.67                    |
| <b>M. Tech (Energy &amp; Environmental Engineering)</b><br>Vellore Institute of Technology, Vellore, Tamil Nadu. | Vellore Institute of Technology | 2016                   | 8.45                    |
| <b>B. Tech (Mechanical Engineering)</b><br>Marian Engineering College, Trivandrum, Kerala.                       | Kerala University               | 2013                   | 6.9                     |
| <b>I.S.C.</b><br>Trinity Lyceum, Kollam, Kerala, India   | CISCE                           | 2009                   | 75%                     |
| <b>I.C.S.E.</b><br>Trinity Lyceum, Kollam, Kerala, India   | CISCE                           | 2007                   | 86%                     |

## TECHNICAL SOFTWARE SKILLS

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|---|--|
| <b>Air quality tools</b> <ul style="list-style-type: none"><li>❖ EPA UNMIX 6</li><li>❖ EPA CMB 8.2</li><li>❖ EPA PMF 5.0</li><li>❖ Hysplit</li><li>❖ AERMOD</li></ul> | <b>Scripting and programming</b> <ul style="list-style-type: none"><li>❖ R</li><li>❖ PowerShell</li></ul>  |
| <b>Design tools</b> <ul style="list-style-type: none"><li>❖ PTC Creo 2.0</li><li>❖ Autodesk Inventor 11</li><li>❖ ICEM CFD</li><li>❖ CFX</li></ul>                    | <b>Other software packages</b> <ul style="list-style-type: none"><li>❖ Microsoft Office</li><li>❖ Libre Office</li><li>❖ IBM SPSS Statistics</li><li>❖ GIMP</li><li>❖ Image J</li><li>❖ Ink Scape</li><li>❖ QGIS</li></ul> |

## WORK EXPERIENCE

- ❖ Served as **Teaching and Research Associate** at School of Civil Engineering in Vellore Institute of Technology, Vellore for a period of **one year (Oct 2016 – Nov 2017)**.
- ❖ Served as **Assistant Professor (Jr.)** at School of Civil Engineering in Vellore Institute of Technology, Vellore for a period of **one year and nine months (Nov 2017 – Sep 2019)**.
- ❖ Served as **Senior Research Fellow** in a **Department of Science and Technology** funded project at Vellore Institute of Technology, Vellore for a period of **6 months (Nov 2021 – Mar 2022)**.
- ❖ Worked as **Project Manager** for **Source Apportionment and Carrying Capacity Analysis of Madurai City Under NCAP and Source Apportionment and Emission Inventory of CPCL** at IIT-Madras, Chennai, India (April 2022 – October 2023)

- ❖ Worked as a **Chief Technology Officer** of **Envitran Smart Systems Pvt. Ltd.**, an IIT-Madras based startup specializing in design and manufacturing of air pollution control devices for a period of 10 months. (**January 2023 – October 2023**)
- ❖ Currently works as a **Post Doctoral Associate** at **National Institute of Advanced Studies (NIAS)**, Bengaluru, Karnataka, for a period of 2 years and 3 months (**October 2023- Current**)

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## AWARDS AND ACHIEVEMENTS

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- ❖ Awarded cash prize for **best paper presentation** in *6th Indian International Conference on Air Quality Management*, held at Indian Institute of Technology, Guwahati in December of 2021.
- ❖ Awarded cash prize for **best paper presentation** in *3rd Indian International Conference on Air Quality Management*, held at Indian Institute of Technology, Madras in December of 2018.
- ❖ Recipient of **best paper presentation** in *1st International Conference on Recent Advances in Bioresource Technology*, held at Thiruvalluvar University, Vellore in February of 2017.
- ❖ Recipient of **Research award** for the year of 2016 from VIT University, Vellore.

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## PUBLICATIONS

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### INTERNATIONAL JOURNALS

- 1) **Jithin Jose** and B. Srimuruganandam., 2020. "Investigation of road dust characteristics and its associated health risks from an urban environment", *Environmental Geochemistry and Health* 42(9), 2819–2840. (SCI - Springer - Impact Factor: 4.609; Citation: 20). <https://doi.org/10.1007/s10653-020-00521-6>
- 2) **Jithin Jose** and B. Srimuruganandam., 2020. "Application of micro-morphology in physical characterization of urban road dust", *Particuology* 54, 146-155. (SCI - Elsevier - Impact Factor: 3.067). <https://doi.org/10.1016/j.partic.2020.05.002>
- 3) V.V. Narmadha, **Jithin Jose**, Sakshi Patil, Mohd. Ozair Faruqui, B. Srimuruganandam, S. Saravanadevi and K. Krishnamurthi., 2020. "Assessment of microplastics in roadside suspended dust from urban and rural environment of Nagpur, India", *International Journal of Environmental Research* 14(6), 629–640. (SCI - Springer - Impact Factor: 2.479; Citation: 7). <https://doi.org/10.1007/s41742-020-00283-0>
- 4) **Jithin Jose** and B. Srimuruganandam, 2021. "Effect of silt loading on particle concentration in the atmosphere from resuspended road dust through particulate matter dispersion modeling." *Air Quality, Atmosphere & Health* (SCI – Springer – Impact Factor: 3.763 – Available Online). <https://doi.org/10.1007/s11869-021-01034-6>
- 5) **Jithin Jose** and B. Srimuruganandam, 2021. "Source apportionment of urban road dust using four multivariate receptor models." *Environmental Earth Sciences* 80, 666. (SCI – Springer – Impact Factor: 2.784 – Available Online). <https://doi.org/10.1007/s12665-021-09960-5>.
- 6) Manojkumar, N., **Jithin Jose**, Gowtham Guptha, Ankur Bhardwaj, and B. Srimuruganandam. 2022 "Mass, composition, and sources of particulate matter in residential and traffic sites of an urban environment." *Environmental Geochemistry and Health*: 1-20 (SCI - Springer - Impact Factor: 4.609).

### NATIONAL JOURNALS

- 7) **Jithin Jose**, and B. Srimuruganandam. 2022, "Health Risk of Potentially Toxic Elements from Diverse Sources in Urban Road Dust: An Application of Receptor Modeling." *Journal of The Institution of Engineers (India): Series A*: 1-7.
- 8) **Jithin Jose**, B. Srimuruganandam and S.M. Shiva Nagendra., 2020. "Source apportionment of coarse and fine particulate matter using principal component analysis in an urban environment", *Journal of Environmental Science and Engineering* NEERI, Nagpur, India. (*Accepted-In Press*).
- 9) **Jithin Jose**, B. Srimuruganandam and S.M. Shiva Nagendra., 2019. "Characterization of PM<sub>10</sub> and PM<sub>2.5</sub> Emission Sources", *Nature, Environment and Pollution Technology* 18(2), 555-562. (*Scopus Indexed - Open Access - Impact Factor: 0.74; Citation: 2*).
- 10) Abhinav Wadhwa, K. Santhi, Pavan Kumar Kummamuru, **Jithin Jose.**, 2018. "Identify suitable classification algorithm for water pixel count extraction - A case study of puzhal lake", *Indian Journal of Ecology* 45(4), 697-703. (*Open Access - Impact Factor: 0.13*)
- 11) B. Srimuruganandam and **Jithin Jose.**, 2016. "Air Quality Management through Receptor Modelling", *Indian Journal of Science and Technology* 9(32), 1-6. (*Open Access*). DOI: 10.17485/ijst/2016/v9i32/99170.

### **OTHER ARTICLES/ REPORTS/ POLICY BRIEFS**

- 12) **Jithin Jose**, B. Srimuruganandam, 2023. “Digging into the Dirt: The Shocking Presence of Heavy Metals in Road Dust” *Newsletter, PRAKRITI*, 3(1), 07-11. Indian Institute of Technology - Madras, Chennai.
- 13) Gufran Beig, **Jithin Jose**, KM Harshitha, et al. 2024. “Emission Hot Spots and High-Resolution Emission Inventory (200m) of Particulate Pollutants Using Drone Technology in Bengaluru Urban District (BUD).” *Scientific Report NIAS/EI/2024/1*. National Institute of Advanced Studies, Bengaluru.
- 14) Gufran Beig, Jithin Jose, Shailesh Nayak, 2025. “Impact of EV-Transition on Air Quality and Public Health.”. *NIAS policy brief NIAS/NSE/EECP/R/PB/02/2025*. National Institute of Advanced Studies, Bengaluru.

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### **INTERNATIONAL CONFERENCES**

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- 1) **Jithin Jose** and B. Srimuruganandam. “Health Risk of Potentially Toxic Elements from Diverse Sources in Urban Road Dust: An Application of Receptor Modeling”, Proceedings of the 6<sup>th</sup> Indian International Conference on Air Quality Management (**IICAQM 2021**) held at IIT Guwahati, Guwahati, Assam, India, 16-18<sup>th</sup> December 2018. (*Received Best Paper Award – Second Prize*)
- 2) **Jithin Jose**, B. Srimuruganandam and S.M. Shiva Nagendra. “Application of principal component analysis in source apportionment of PM<sub>10</sub> and PM<sub>2.5</sub> emission sources”, Proceedings of the 3<sup>rd</sup> Indian International Conference on Air Quality Management (**IICAQM 2018**) held at IIT Madras, Chennai, Tamil Nadu, India, 6-7<sup>th</sup> December 2018. (*Received Best Paper Award – Second Prize – Springer Gift Voucher – EUR100*)
- 3) **Jithin Jose**, B. Srimuruganandam and S.M. Shiva Nagendra. “Application of Unmix Model in Characterization of PM<sub>10</sub> and PM<sub>2.5</sub> Emission Sources”, Proceedings of the First International conference on Energy and Environment: Global Challenges (**ICEE 2018**) held at NIT Calicut, Kerala, India, 9-10<sup>th</sup> March 2018.
- 4) **Jithin Jose** and B. Srimuruganandam. “Source Apportionment of Airborne Particulate Matter using Principal Component Analysis Technique”, Proceedings of the International conference on Recent Advances in Bioresource Technology (**RABT 2017**) held at Thiruvalluvar University, Vellore, Tamil Nadu, India, 15-17<sup>th</sup> February 2017. (*Received Best Paper Award*)
- 5) Neena Susanna Thomas, Megha Alex, **Jithin Jose** and B. Srimuruganandam. “Application of Self Organising Maps (SOM) in Source Characterization of PM<sub>10</sub> and PM<sub>2.5</sub> Mass Concentrations”, Proceedings of the International conference on Recent Advances in Bioresource Technology (**RABT 2017**) held at Thiruvalluvar University, Vellore, Tamil Nadu, India, 15-17<sup>th</sup> February 2017.
- 6) B. Srimuruganandam and **Jithin Jose**. “Air Quality Management through Receptor Modelling”, ASCE–Proceedings of the International conference on Sustainable Energy and Built Environment held at VIT–University, Vellore, Tamil Nadu, India, 10-12<sup>th</sup> March 2016.

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### **WORKSHOPS**

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- ❖ Attended workshop on “Urban Air Pollution and Health Risk” organized by Department of Civil Engineering, IIT Madras and Helmholtz Centre for Environmental Research, Leipzig at Indian Institute of Technology, Madras on 13<sup>th</sup> February 2016
- ❖ Participated in workshop on “Infrastructure planning and Management for Smart Cities in Developing Countries” organized by School of Civil Engineering, Vellore Institute of Technology and NITTTR on 16<sup>th</sup> November 2016.
- ❖ Attended workshop on “ANN Approach for Predictive Modeling and Optimization” organized by School of Mechanical Engineering, Vellore Institute of Technology, at Vellore Institute of Technology on 28<sup>th</sup> October 2017
- ❖ Partook workshop on “Process Optimization – Fundamentals and Applications” organized by AIChE, Society for Biological Engineering and Vellore Institute of technology at Vellore Institute of Technology on 16<sup>th</sup> December 2017.
- ❖ Participated in workshop on “Advances in Disaster Monitoring Sensors” organized by Centre for Disaster Mitigation and Management, VIT at Vellore Institute of Technology on 21<sup>st</sup> December 2017.

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**DECLARATION**

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I hereby endorse that the particulars furnished above are true to the best of my knowledge and belief.

**Place:** Bengaluru, Karnataka  
**Date:** 16-02-2026



**Yours truly,**  
*(Jithin Jose)*