

Rajagopal Sadhasivam

Indian Institute of Technology Madras (India)

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Research Interests

* Laboratory experiments * Groundwater modeling * Saltwater intrusion * Field investigations * Water quality analysis
* GIS applications

Education

Program	Institution/Board	%/CGPA	Year
Ph.D (Civil Engineering)	Indian Institute of Technology Madras Chennai, Tamil Nadu	8.00/10	2021-2026
M.E (Irrigation Water Management)	College of Engineering Guindy, AU Chennai, Tamil Nadu	8.64/10	2016-2018
B.E (Civil Engineering)	Government College of Technology Coimbatore, Tamil Nadu	8.02/10	2012-2016
XII (State Board)	Gandhi Hr. Sec. School Namakkal, Tamil Nadu	96.50%	2010-2012
X (State Board)	Vivekanandha Hr. Sec. School Karur, Tamil Nadu	94.20%	2009-2010

Scholastic Achievements

- Received **Best Paper Award** at the International Groundwater Conference held organized by IIT Hyderabad, Dec 2023
- Received **Second Prize in Hydro quiz** at the World Water Day event organized by IIT Madras, Mar 2025
- Received **Half-Time Research Assistantship** funding from the Ministry of Human Resources Department, India, March 2023
- Received **Half-Time Research Assistantship** funding from the Department of Science and Technology, India, March 2021
- Received **Full-Time Scholarship** to pursue class XI and XII, May 2010

Publications

- Sadhasivam, R., Srinivasan, V., and Clement, T. P. Hydrological implications of inland boundary conditions in coastal aquifers subject to sea level rise. Hydrogeology Journal(2025). DOI: [10.1007/s10040-025-02974-4](https://doi.org/10.1007/s10040-025-02974-4) (IF = 2.8).
- Rosado, D., Castillo, F., Nambi, I., **Sadhasivam, R.**, Valleru, H., and Fohrer, N. Evaluating heavy metal levels and their toxicity risks in an urban lake in chennai, India. International Journal of Environmental Science and Technology(2023). DOI: [10.1007/s13762-023-05086-2](https://doi.org/10.1007/s13762-023-05086-2). (IF = 3.4, Citations = 17)

Conferences

- Rajagopal Sadhasivam**, Venkatraman Srinivasan, and Indumathi M Nambi (2024). "Are physical barriers sustainable to saltwater intrusion under changing climatic conditions?", EGU24-18125. Copernicus Meetings, 14-19 April.
- Rajagopal Sadhasivam**, Venkatraman Srinivasan, Prabhakar T Clement and Indumathi M Nambi (2023). "Implications of Inland freshwater boundary conditions in SWI due to SLR", 5th Indian National Groundwater Conference, IIT Hyderabad, India, 05-06 December.
- Rajagopal Sadhasivam**, Venkatraman Srinivasan and Indumathi M Nambi (2023). "Groundwater flux decline, not sea level rise, is the underlying mechanism impacting saltwater intrusion in coastal aquifers", Water security and climate adaptation conference, IIT Madras, India, 04-07 October.
- Rajagopal Sadhasivam**, Venkatraman Srinivasan and Indumathi M Nambi (2022). "Effect of SLR effect on saltwater intrusion mitigation measures in unconfined coastal aquifers", 9th International Groundwater Conference, IIT Roorkee, India, 02-04 November.
- Rajagopal Sadhasivam**, Venkatraman Srinivasan and Indumathi M Nambi (2022). "Laboratory investigation of

salt-wedge dynamics and its control measures in confined coastal aquifers", One-day National Seminar on "Advances in Water Resources Planning and Management", IIT Madras, India, 22 May.

6. **Rajagopal Sadhasivam**, Venkatraman Srinivasan and Indumathi M Nambi (2022). "Laboratory investigation of salt-wedge dynamics in coastal aquifers", 2nd Roorkee water conclave, IIT Roorkee, India, 02-04 March.

Work Experience

1. **Sustainable Restoration of an Urban lake, Chennai, Tamil Nadu, India** Jun 2018-Mar 2021
(PI: Prof. Indumathi M Nambi) Funding Agency: The Nature Conservancy, India. ICSR, IIT Madras

o Worked as a Project Associate and handled the Hydrological and Hydro-geological assessments, water quality analysis, and GIS applications

2. **Assessing the levels of groundwater contamination in and around Perungudi and Kodungaiyur dumpsite.** Jun 2018-Mar 2021
(PI: Prof. Indumathi M Nambi) ICSR, IIT Madras

o Worked as a Project Associate and experienced in water quality analysis, and GIS applications

Funding Agency: TNUIFSL.

Technical Skills and Teaching Assitianship

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| o Programming Language: MATLAB, Python | o Groundwater Engineering | P.G level |
| o Softwares: GMS, FEFLOW, ARC GIS, QGIS, AutoCAD | o Numerical Techniques in Civil Engineering | P.G level |
| o Tools: Latex, Overleaf, Microsoft Office | o Water Resources Engineering (Theory & Lab) | U.G level |

Industrial Training

1. **Summer Intern** May 2017
(M.E / Mentor: Dr.N.K. Ambujam (Retd.)) Roots Irrigation, Pvt.Ltd

o Gained insights in Drip and Sprinkler Irrigation systems installed in agricultural fields in and around Coimbatore.

2. **Student Project** Dec 2014
(B.Tech / Mentor: Dr. S.Makesh Kumar) Central Public Works Department, Coimbatore

o Acquired hands-on- experience in a two-storey office building in CASFOS Coimbatore, and the construction of a swimming pool in the CRPF training centre Coimbatore.

References

Dr. Venkatraman Srinivasan
Associate Professor, IIT Madras
E-mail: venkatraman@iitm.ac.in

Prof. Indumathi M Nambi
Professor, IIT Madras
E-mail: indunambi@civil.iitm.ac.in

Prof. S.Makesh Kumar
Assistant Professor, GCT, CO
E-mail: lelango@iitm.ac.in

Declaration

I do hereby declare that all the details furnished above are true to the best of my knowledge and belief.

Place: Chennai, Tamil Nadu

(Rajagopal M S)