

# Rajagopal Sadhasivam

## Indian Institute of Technology Madras (India)

Chennai - 600036, TamilNadu, India

☎ +91-94422273951 • ✉ rajagopalmsadhasivam@gmail.com

🌐 www.linkedin.com/in/rajagopal-sadhasivam



## 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<br><i>Chennai, Tamil Nadu</i> | 8.00/10 | 2021-2026 |
| M.E (Irrigation Water Management) | College of Engineering Guindy, AU<br><i>Chennai, Tamil Nadu</i>     | 8.64/10 | 2016-2018 |
| B.E (Civil Engineering)           | Government College of Technology<br><i>Coimbatore, Tamil Nadu</i>   | 8.02/10 | 2012-2016 |
| XII (State Board)                 | Gandhi Hr. Sec. School<br><i>Namakkal, Tamil Nadu</i>               | 96.50%  | 2010-2012 |
| X (State Board)                   | Vivekanandha Hr. Sec. School<br><i>Karur, Tamil Nadu</i>            | 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

1. 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).
2. 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

1. **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.
2. **Rajagopal Sadhasivam**, Venkatraman Srinivasan, Prabhakar T Clement and Indumathi M Nambi (2023). "Implications of Inland freshwater boundary conditions in SWI due to SLR", 5<sup>th</sup> Indian National Groundwater Conference, IIT Hyderabad, India, 05-06 December.
3. **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.
4. **Rajagopal Sadhasivam**, Venkatraman Srinivasan and Indumathi M Nambi (2022). "Effect of SLR effect on saltwater intrusion mitigation measures in unconfined coastal aquifers", 9<sup>th</sup> International Groundwater Conference, IIT Roorkee, India, 02-04 November.
5. **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”, 2<sup>nd</sup> Roorkee water conclave, IIT Roorkee, India, 02-04 March.

## Research Exposure and Work Experience

---

**1. Impact assessment study on artificial recharge in Namakkal and Erode district lakes, Tamil Nadu.**

(PI: Dr. Venkatraman Srinivasan)

- Groundwater Modeling

**2025- present**  
HWRE, IIT Madras

**2. Rapid aquifer recharge technology for combined flood and drought mitigation, Tirunelveli, Tamil Nadu.**

(PI: Dr. Venkatraman Srinivasan)

- Groundwater assessments and GIS applications

**2022-2024**  
HWRE, IIT Madras

**3. Sustainable Restoration of an Urban lake, Chennai, Tamil Nadu, India**

(PI: Prof. Indumathi M Nambi) Funding Agency: The Nature Conservancy, India.

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

**Jun 2018-Mar 2021**  
ICSR, IIT Madras

**4. Assessing the levels of groundwater contamination in and around Perungudi and Kodungaiyur dumpsite.**

(PI: Prof. Indumathi M Nambi)

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

Funding Agency: TNUIFSL.

**Jun 2018-Mar 2021**  
ICSR, IIT Madras

## Technical Skills and Teaching Assitianship

---

Programming Language: MATLAB, Python

Softwares: GMS, FEFLOW, ARC GIS, QGIS, AutoCAD

Tools: Latex, Overleaf, Microsoft Office

Groundwater Engineering

Numerical Techniques in Civil Engineering

Water Resources Engineering (Theory & Lab)

P.G level

P.G level

U.G level

## Industrial Training

---

**1. Summer Intern**

(M.E / Mentor: Dr.N.K. Ambujam (Retd.))

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

**May 2017**

Roots Irrigation, Pvt.Ltd

**2. Student Project**

(B.Tech / Mentor: Dr. S.Makesh Kumar)

- 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.

**Dec 2014**

Central Public Works Department, 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. Elango Lakshmanan**

Visiting Professor, IIT Madras

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)