Sreelakshmi Srinivasan

Ph.D. Student
Building Technology and Construction Management Division
Department of Civil Engineering
Indian Institute of Technology Madras (IIT Madras),
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EDUCATION

● **Ph.D. in Civil Engineering** April 2021-Present
Indian Institute of Technology Madras, Chennai, India
Tentative thesis title: "Electrochemical Characteristics, service life and the Effect of Corrosion on Mechanical behavior of prestressed concrete systems"| CGPA**- 9.5**

● **M.E. in Structural Engineering** May 2018
Government College of Technology, Coimbatore – Autonomous Institution Affiliated to Anna University
First Class with Distinction, **Second Rank**, CGPA- **9.3**

● **B.E. in Civil Engineering** April 2016
University College of Engineering, Nagercoil - Anna University Constituent College
First Class with Distinction, **Second Rank**, CGPA- **8.51**

WORK EXPERIENCE

● Graduate Teaching Assistant, Indian Institute of Technology Madras, Chennai, India Apr 2021– May 2024
  - Basic design of reinforced concrete structures, Admixtures and Special Concretes & Teaching Assistant in the NPTEL program, Construction Materials Laboratory, Civil Engineering Materials and Construction

● Worked as Project Associate, at Indian Institute of Technology Madras. Oct 2020 -Mar 2020

● Worked as Engineer, Power Projects Division, Civil Design, BGR Energy Systems Limited Aug 2018 -Sept 2020

● Teaching Assistant, Government College of Technology Coimbatore, India
Concrete and Highway Laboratory , Strength of Materials Laboratory Jan–Nov 2017

PAPERS PRESENTED

- Srinivasan, S., Pillai, R. G., and Andrade, C. (2025). " Passivation of prestressed steel in concrete with slag and exposed to chlorides" **Materials and corrosion,** , 76: 1888-1902. https://doi.org/10.1002/maco.70012
- Srinivasan, S., Pillai, R. G., and Andrade, C. (2025). "Relooking the Interpretation of Linear Polarization Resistance (LPR) data from passive and active steels." for the 79th Rilem week & International Conference on Advances in Engineering & Technology for Sustainable development (ICONS 2025), Ha Noi, Vietnam. (Paper presented)
- Srinivasan, S., Pillai, R. G., and Andrade, C. (2024). "Passivation of prestressed steel in slag-based binders" 10th International Conference on CONcrete under SEvere Conditions (CONSEC 2024) – Environment & Loading, Indian Institute of Technology Madras, Tamil Nadu, India | **Best Paper Award**
- Srinivasan, S., Pillai, R. G., and Andrade, C. (2024). "Passivation performance of prestressing steel in cement with slag." for the 78th Rilem week & Rilem conference on Smart Materials and Structures: Meeting the major challenges of the 21st century (SMS 2024), Toulouse, France. (Paper presented)
- Srinivasan, S., Pillai, R. G., and Andrade, C. (2023). "Interpretation of Electrochemical Impedance Spectroscopy responses to understand the passivation performance of prestressing steel in slag-based binders." Proceedings of

the International Conference on Condition Assessment, Rehabilitation & Retrofitting of Structures (CARRS 2023), Indian Institute of Technology Hyderabad, Telangana, India | **Best Paper Award**

- Srinivasan, S., Joseline, D., Pillai, R. G., and Andrade, C. (2023). "Passivation performance of cement with slag addition on prestressed steel in concrete." for the 77th RILEM Annual Week and the 1st Interdisciplinary Symposium on Smart & Sustainable Infrastructures (ISSSI 2023),Vancouver, Canada. (Paper presented)
- Pillai, R.G., Manickam, K., Joseline, D., Srinivasan, S. (2024). Corrosion and Its Control in Prestressed Concrete Structures. In: Banthia, N., Soleimani-Dashtaki, S., Mindess, S. (eds) Smart & Sustainable Infrastructure: Building a Greener Tomorrow. ISSSI 2023. RILEM Book series, vol 48. Springer, Cham. https://doi.org/10.1007/978-3-031-53389-1_79
- Srinivasan, S., Joseline, D., and Pillai, R. G. (2022). "Stress Corrosion Crack studies of Prestressing Steel wires in hardened concrete exposed to chlorides in both laboratory and field conditions." Proceedings of the International Conference and Expo on Corrosion (CORCON 2022), Udaipur, India | **Best Poster Award.**

INTERNSHIP & IN-PLANT TRAINING

Summer Fellowship Programme June 2015

- At Indian Institute of Technology Madras, Chennai |Period: 25.05.2015 to 15.07.2015
- Title: "Influence of the Size of Specimen on Sulphate Attack"& "Design of Ultra High-Performance Concrete".

In-plant Training December 2014

- At Building Construction Subdivision, Public Works Department, Nagercoil Analyzed the design of the District Magistrate Office Building and observed the construction practices and Cost Estimation of the Project.

GATE Score – 388/1000, Normalised Percentile - 90.84/100 March 2016

RESPONSIBILITIES HELD:

- Student Volunteer for "Institute Open House at IIT Madras" during.January 5 & 6, 2025,
- Student Volunteer for "10th International Conference on CONcrete unde SEvere Conditions- Environment and Loading (CONSEC24)" during September 25 – 27, 2024., "A week on Technologies for Low Carbon and Lean Construction" during January. 28 –31, 2024 and "40th International Symposium on Automation and Robotics in Construction" during July. 3–7, 2023, IIT Madras
- Volunteer for CORCON 2022, 28th International Conference & Expo on corrosion held in Udaipur during Sept. 19 – 22, 2022.
- Class Committee representative-during Master's and Bachelor's program
- Treasurer of Women Entrepreneurship Cell, Executive Member - Events Committee, Executive Member of English Club, Member of Fine Arts Club, University College of Engineering, Nagercoil.

ACHIEVEMENTS:

- Received Rilem PhD Travel Grant 2025
- Received AMPP Emerg India Fellowship 2025
- Best Paper Award for "Passivation of prestressed steel in slag-based binders" at CONSEC 2024, IIT Madras, Tamil Nadu, Best Paper Award for "Interpretation of EIS responses to understand the passivation performance of prestressing steel in slag-based binders" at CARRS 2023, IIT Hyderabad, Telangana
- Best Poster Award for "Stress Corrosion Crack studies in Prestressing Steel wires in hardened concrete exposed to chlorides in both laboratory and field conditions" at CORCON 2022, Udaipur, Rajasthan
- Received felicitation in BGRE Systems Limited for developing a spreadsheet for raft design of the Wagon Tippler Control Room with multiple columns, which reduced time and number of iterations.
- Secured College Rank 2 in Postgraduate & Undergraduate program

PROFESSIONAL MEMBERSHIP

NACE International Gateway India Section (NIGIS) (Member since December 2021), Member of ACI (since 2016) RILEM, International Union of Laboratories and Experts in Construction Materials, Systems, and Structures (Member since May 2021)