

## SREELAKSHMI. S

Research scholar

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### Education

Indian Institute of Technology	Civil Engineering	PhD	Pursuing	8.1/10
SRM University	Civil Engineering	M. Tech	2017	9.51/10
Mahatma Gandhi University	Civil Engineering	B. Tech	2015	8.2/10

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### Skill set

Seeking a full-time position in **academia** to promote **construction management best practices** and **pursue path-breaking research** to solve infrastructure problems **sustainably**.

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### Experiences

Graduate Teaching and Research Assistant	Civil Engineering, IIT Madras	2018-Present
Intern- Digital Engineering Team	L&T ECC	2018
Intern- Schedule management for international airport terminal	KITCO	2016
Intern- bridge construction	KITCO	2013

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### Awards and achievements

- Winner for the Project Management GAME-A-THON contest organized by the Project Management Institute (PMI), 2021
- MHRD Fellowship to pursue PhD at IIT Madras
- First rank holder and gold medalist, MTech, SRM University, 2017
- Distinction with honors, BTech, Mahatma Gandhi University, 2015

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### Skill set

- Software packages known
  - Autodesk products: Revit Architecture, Navisworks, AutoCAD
  - Bentley products: Navigator, SynchroPro, ContextCapture, LumenRt
  - Trimble products: Tekla structures, Vico
  - Scheduling software: MS Project, Primavera
  - Arc GIS
  - MATLAB
- Languages known
  - English, Hindi, Malayalam, Sanskrit, Tamil, French

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### Areas of interest

- Infrastructure planning and management
- IT Applications (BIM) and technological change in construction
- Organizational theory
- Construction project management

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### Industry Connect

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- Study 6D BIM implementation on the Nagpur Metro project by the **Maha Metro**
- Helped **Bentley** and **Trimble Solutions** set up different digital tools for the Construction Software lab at IIT Madras
- Training at the concrete products division of **Sobha Developers Ltd** on pavement blocks, kerb stones, and GFRC products

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### Teaching Assistant/ research assistant responsibilities

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- As part of the TA duties, I have handled classroom sessions, prepared assignments and exam question papers, and evaluated the same.
  - TA for Construction Software Lab, Construction contracts and specifications, Infrastructure planning and management, Construction project management, Online courses

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### External professional services

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- Was engaged as a **Research Assistant** in developing a sustainability index for Higher Educational Institutes by IIT Madras Alumni Association
- Was engaged as a **Technical Expert** for Question bank development for the National Program/ Project Management Policy Framework. The section handled was Initiation and Stakeholder Assessment.

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### Publications

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- Sreelakshmi, S., Ashwin Mahalingam, (under review) ‘Understanding Digital Transformations of Construction Firms through Institutional Work’, *ASCE Journal of Construction Engineering and Management*
- Sreelakshmi, S., Kantilal, B.S., Roshan, M., Gopinath, S., 2017, ‘A study on the Barriers to the Implementation of Building Information Modelling’, *International Journal of Civil Engineering and Technology*, 8(5), pp. 42–50
- Gopinath, S., Kantilal, B.S., Sreelakshmi, S., Roshan, M., 2016, ‘Performance Measurement of Residential Projects in India: A Balanced Scorecard Approach’, *International Journal of Civil Engineering and Technology*, 7(6), pp. 698-706

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### Conferences

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- Presented “What Does BIM Adoption Mean to Construction Firms? – A Case from Indian Construction Industry” at CI & CRC Joint Conference 2024, Des Moines, Iowa
- Presented “Understanding digital transformations of construction firms: A case from India” at Engineering Project Organization Conference (EPOC) 2023 held in Berlin, Germany from 20<sup>th</sup>- 23<sup>rd</sup> June 2023
- Presented “The Elusive History of BIM in an Indian Construction Firm” at The Eastman Symposium organized by the Digital Building Lab, Georgia Tech, to honor Professor Chuck Eastman held virtually in May 2021.
- Paper on “Digital technology in the Construction industry- An exploratory study” was presented at the Fifth PMI India Research & Academic Conference (PMIRAC) 2019, held from 28<sup>th</sup> February - 2<sup>nd</sup> March 2019 at IIM K.

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### Workshops/ Professional trainings

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- Was selected to attend the PhD Day organized by EPOC 2023 on June 19<sup>th</sup>, 2023 held in Berlin, Germany
- Attended Pre-colloquium PhD workshop organized by EGOS in July 2022

- ISO 45001: 2018 Occupational Health and Safety Management Systems – Awareness conducted by Loyd's Register Quality Assurance Limited at IIT Madras, 2019
- ISO 9001: 2015 Quality Management Systems – Awareness conducted by Loyd's Register Quality Assurance Limited at IIT Madras, 2019
- The Second Kenyon - IITM Writing Workshop, a collaboration with Kenyon College, Ohio, USA, and Dept of HSS, Dept of Physics, Office of Dean Students, and Office of Dean, International and Alumni Relations, IIT Madras held from December 16 - 20, 2019 at IIT Madras.

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### **Invited Talks**

- Was an invited speaker for the FDP– Construction Technology and Management – A Bird's-eye View organized by KL University during 24-29, Aug 2020 (Virtual)
- Conducted a 2-hour hands-on workshop on BIM for the CEA fest organized by IIT Madras on March 7, 2020

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### **Professional responsibilities**

- Student organizing committee, ISARC 2023 organized by IIT Madras from 3<sup>rd</sup> July- 7<sup>th</sup> July, 2023
- Student organizing committee, TLC2 week at IIT Madras, 30<sup>th</sup> January-3<sup>rd</sup> February 2023
- Student organizing committee, IGLC at IIT Madras in 2018
- Organizer for activities held under the banner of the PG Student Association of Civil Engineering at SRM University as the Additional secretary
- Part of session management of the Sixth International Groundwater Conference (IGWC-2015), SRMIST, Feb 2016.
- Organizer for events and talks organized by the student chapter of ICI at SCMS School of Engineering and Technology as the Student secretary

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### **References**

- Prof. Ashwin Mahalingam, Department of Civil Engineering, IIT Madras
- Prof. Benny Raphael, Department of Civil Engineering, IIT Madras
- Mr. P R Surendhra Babu, Former VP- Digital Engineering, L&T ECC
- Dr. Anitha G Pillai, Professor, Department of Civil Engineering, SSET, Kerala