

JAYA SATHYA SANDEEP INNAMURI

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CAREER OBJECTIVE

Long term goal includes the pursuit of research in the field of Transportation Engineering. Area of interests include **Mechanical characterization of bituminous materials, modeling the response and chemistry of bitumen.**

BASIC ACADEMIC CREDENTIALS

Qualification	Board/University	Institution	Year of Passing	Percentage /CGPA
Ph.D.	IIT	IIT Madras	2019 - Ongoing	8.6
M.Tech. (Transportation Engineering)	NIT	NIT Warangal	2018	8.5
B.Tech. (Civil Engineering)	JNTU Kakinada	GVP College of Engineering, Visakhapatnam	2016	81.5 %

PUBLICATIONS

International Journal

- Arjun Kumar, T., Sandeep, I.J.S., Nivitha, M.R., Venkaiah Chowdary and Murali Krishnan, J. "Quantification of Aging Compounds in Evotherm-Modified Warm-Mix Asphalt Binder Using Fourier Transform Infrared Spectroscopy", *Arabian Journal of Science and Engineering*, 44, 8429-8437 (2019)

<https://link.springer.com/article/10.1007/s13369-019-03965-w>

National Journal

- Sandeep, I.J.S., Nivitha, M.R., Sonal Maheshwari and Murali Krishnan, J. “Influence of Crude Source on the Structural Indices of Short Residue”, *Transportation in Developing Economies*, 6, 1-8 (2020).
<https://link.springer.com/article/10.1007/s40890-020-0096-2>
- Sandeep, I.J.S., Padmarekha, A. and Murali Krishnan, J. “Issues Related to The Measurement of The Linear Viscoelastic Properties of The Bituminous Mixtures Using Dynamic Shear Rheometer”, *Transportation in Developing Economies*, in Press.

International Conference

- Sandeep, I.J.S., Sai Bhargava, S., Padmarekha, A. and Murali Krishnan, J. “Geometric nonlinearities of Bituminous Binder and Mastic using Large Amplitude Oscillatory Shear (LAOS)”, *Advances in Material and Pavement Performance Prediction Conference*, Online, 3-7 August 2020. (accepted for publication in Taylor and Francis as proceedings)
<https://www.am3p.com/final-program>

ACADEMIC PROJECTS

- Graduate - Quantification of Ageing Effects in Bituminous Binders using Fourier Transform Infrared Spectroscopy
- Undergraduate - Mix design of Self-compacting Concrete.

RESEARCH EXPERIENCE

- Project Associate, Pavement Engineering Laboratory, Department of Civil Engineering, IIT Madras (July 2018 – June 2019)

Project title: A Multi-Scale Approach for Characterization of Fatigue of Bituminous Materials

Funding Agency: Department of Science and Technology.

Project No.: CIE1819276DSTXJMUR

Responsibilities

- Preparation of bituminous binder, mastic and mixture for testing in torsional mode.
- Experimental investigation using Dynamic Shear Rheometer in Large Amplitude Oscillatory Shear framework.

- Post processing and analysis of the experimental data for computation of fatigue life.
- Preparation of progress report and presentation.

SOFTWARE SKILLS

- KENPAVE
- MATLAB
- Origin

ACADEMIC HONOURS

- Best outgoing student from the Department of Civil Engineering, GVP College of Engineering in 2016.
- Secured S Raghava Chary Memorial Gold medal for the best Dissertation work in MTech. Transportation Engineering for the year 2018.
- Adjudged best paper for the paper titled “Influence of Crude Source on the Structural Indices of Short Residue” in the area of Pavement and Railway Engineering at the 5th CTRG Conference held in Bhopal, 18-21 December 2019.

REFERENCE

1. Dr. J Murali Krishan, Professor, Department of Civil Engineering, IIT Madras
<jmk@iitm.ac.in>
2. Dr. Venkaiah Chowdary, Associate Professor, Department of Civil Engineering, NIT Warangal <vc@nitw.ac.in>