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**EDUCATION**

- **Ph.D.**, Civil Engineering (Geotechnical), Indian Institute of Science, Bangalore, 2018
- **M.E.**, Civil Engineering (Geotechnical), Indian Institute of Science, Bangalore, 2010
- **B.E.**, Civil Engineering, Indian Institute of Engineering Science and Technology, Shibpur, 2008

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**RESEARCH INTERESTS**

- Wave Propagation in Elastic Media
- SASW/MASW
- Bender Element Test
- Site Response Analysis
- Geotechnical Earthquake Engineering

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**PROFESSIONAL EXPERIENCES**

- **Assistant Professor**, Dept. Civil Engineering, IIT, Madras – Aug, 2018 to Present
- **Research Associate**, Dept. Civil Engineering, IISc, Bangalore – Aug, 2017 to July 2018
- **Teaching Assistant**, Dept. Civil Engineering, IISc, Bangalore – Aug, 2012 to July, 2017
- **Assistant Professor**, Dept. Civil Engineering, BITM, Santiniketan – Jan, 2012 to Jul, 2012
- **Senior Lecturer**, Dept. Civil Engineering, ICFAI Univ., Tripura - Aug, 2010 to Dec 2011

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**AWARDS AND HONORS**

- Topper of the M.E. Geotechnical Engineering Batch 2008-2010 at IISc Bangalore.
- Govt. of India, MHRD scholarship to pursue M.E. at IISc Bangalore during 2008 to 2010.
- Govt. of India MHRD scholarship to pursue Ph.D. at IISc Bangalore during 2012 to 2017.

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**KEY RESEARCH HIGHLIGHTS**

- Developed a new variant of Fourier transform called “Sliding Transform” to deal with the unwrapping of phase difference between two sensors.
- Developed a 3D multimodal dispersion graph (MASW) software.

- Incorporated the exact contribution of elastic half space without any buffer layers while determining the dispersion plots based on forward analysis.

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**SUPERVISION OF STUDENTS AT IITM**

- For Ph.D.

Sl. No.	Name Of The Student	Title Of The Thesis	Year Started	Status
1	Mrinal Bhaumik	A novel approach to determine the accurate shear wave velocity profile of subsurface using multichannel analysis of surface wave method	Jul 2019	Ongoing
2	Prabir Das	An artificial neural network (ann) based algorithm to predict the shear wave profile of subsurface from MASW test data	Aug 2020	ongoing

- For M.S.

Sl. No.	Name Of The Student	Title Of The Thesis	Year Started	Status
1	Sayan Mukherjee	Rayleigh-wave velocity spectrum using an improvised high-resolution linear Radon transform	Jul 2019	Ongoing

- For M. Tech/D.D.

Sl. No.	Name Of The Student	Title Of The Thesis	Year Started	Status
1	Senapati Ketan	A comparison of different methods to identify the arrival point of the shear waves for bender element tests	Jul 2019	Completed Jun 2020
2	Dasvind Verma	Estimation of shear-wave velocity profile by inverse analysis	Jul 2020	Completed Jun 2020

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**TEACHING RELATED EXPERIENCES**

- Courses taught at IITM

Course No.	Course Title	Level	Type	Semester
CE 3330	Computer Methods in Civil Engineering	U.G	Elective	Fall 2019, 2020
CE 5310	Advanced Soil Mechanics	P.G.	Core	Spring 2019, 2020

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**SPONSORED RESEARCH PROJECTS**

Project Title	Amount (INR)	Period	Agency	Role
A Novel Approach to Determine the Accurate Shear Wave Velocity Profile for an Irregularity Dispersive Soil Strata	28,000,00	22/01/20 to 21/01/23	IC&SR IIT Madras	PI
Effect of Inclinations of Different Layers on Dispersion Graph	5,000,00	04/08/18 to 03/08/20	IC&SR IIT Madras	PI

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**PUBLICATIONS**

[Google Scholar](#)

**Refereed Journal Publications**

*Number of Published Journal Papers = 6*

1. **Naskar, T.**, and Kumar, J., 2019. A Faster Scheme to Generate Multimodal Dispersion Plots for Rayleigh Wave Propagation. *Soil Dynamics and Earthquake Engineering*, 177, 280-287. Impact Factor -2.578(2018)
2. Kumar, J., and **Naskar, T.**, 2017. Resolving phase wrapping by using sliding transform for generation of dispersion curves. *Geophysics*, 82 (3), 127-136. Impact Factor -2.793(2018)

3. Kumar, J., and **Naskar, T.**, 2017. A fast and accurate method to compute dispersion spectra for layered media using a modified Kausel-Roësset stiffness matrix approach. *Soil Dynamics and Earthquake Engineering*, 92, 176-182. Impact Factor -2.578(2018)
4. **Naskar, T.**, and Kumar, J., 2017. Predominant modes for Rayleigh wave propagation using the dynamic stiffness matrix approach. *Journal of Geophysics and Engineering*, 14(5), 1032-1041. Impact Factor -1.441
5. Kumar, J., and **Naskar, T.**, 2015. Effects of site stiffness and source to receiver distance on surface wave tests' results. *Soil Dynamics and Earthquake Engineering*, 77, 71-82. Impact Factor -2.578(2018)
6. Kumar, J., and **Naskar, T.**, 2012. Vertical uplift capacity of a group of two coaxial anchors in a general  $c-\phi$  soil. *Canadian Geotechnical Journal*, 49(3), 367-373. 5 Year Impact Factor -3.128

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