FALAK ZAHOOR

Department of Civil Engineering
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EDUCATION

Ph.D., Civil (Geotechnical) Engineering – April 2023
Indian Institute of Technology Delhi, Delhi, India
Dissertation: Seismic hazard and geotechnical vulnerability assessment of soils in Kashmir Region, Jammu and Kashmir.
GPA: **9.28/10**
Supervisors: Prof. K. S. Rao (IIT Delhi), Co-supervisor: Prof. Neelima Satyam (IIT Indore)

B.Tech., Civil Engineering - July 2015
National Institute of Technology Srinagar, Srinagar, Jammu and Kashmir, India
GPA: 9.263/10 (Ranked 2nd in a class of 120)
Project Supervisor: Prof. A. R. Dar, NIT Srinagar

Grade XII, JK-BOSE
Green Valley Educational Institute, Srinagar, Jammu and Kashmir, India -2009
Percentage: **90%**

Grade X, JK-BOSE
Presentation Convent High School, Srinagar, Jammu and Kashmir, India -2007
Percentage: **92%**

PROFESSIONAL APPOINTMENTS

Assistant Professor, Grade-II - April 2023 – present
National Institute of Technology Srinagar, Srinagar, Jammu and Kashmir, India

Trainee Teacher (Assistant Professor track) - January 2016 – April 2023
National Institute of Technology Srinagar, Srinagar, Jammu and Kashmir, India

AWARDS AND HONORS

- R&D Grant, TEQIP-III -2019
- Selected as Trainee Teacher (MHRD scheme)at NIT Srinagar -2016
- Certificate of Merit in B.Tech, NIT Srinagar - 2015

RESEARCH AREAS

Seismic hazard analysis and microzonation, soil dynamics and ground response analysis, geotechnical vulnerability and liquefaction risk assessment, geophysical investigations, seismic site characterization, multi-hazard risk assessment, geotechnical characterization of soils, vibration studies on structures, fault delineation using geophysical tests, forensic landslide investigations

JOURNAL PAPERS

J12. Zahoor, F., Ansari, A., Rao, K.S., Shah, M. Y., Satyam, N. (2026). "GIS-based mapping of bearing capacity and liquefaction hazard for the Srinagar Metropolitan Region of Kashmir." *Bulletin of Engineering Geology and the Environment.* 85, 174.

J11. Ansari, A., **Zahoor, F.,** Rao, K.S., Rathod, G.W., and Mir, B.A. (2025). "Integrating MHVSR and MSOR techniques with JFIM for seismic vulnerability assessment of sites and buildings in Jammu and Kashmir, NW Himalayas." *Physics and Chemistry of the Earth, Parts A/B/C,* 104062.

J10. Zahoor, F., Rao, K.S., and Satyam, N. (2025). "Microzonation through seismic and geotechnical vulnerability assessment: recommendation of foundation selection guidelines for the Srinagar Metropolitan Region, Jammu and Kashmir." *Pure and Applied Geophysics.* 182, 79-105

J9. Zahoor, F., Rao, K.S., Mir, F.U.H. and Satyam, N. (2025). "Intensity-dependent site amplification factors using non-linear ground response analysis for Greater Srinagar Metropolitan in the deep sedimentary basin of Kashmir." *Soil Dynamics and Earthquake Engineering*, 190, 109120.

J8. Zahoor, F., Rao, K.S., Satyam, N., Mir, M.S. (2024). "Geotechnical characterisation and 2D soil cross-section model development in the Kashmir Basin." *Arabian Journal of Geosciences,* 17, 234

J7. Zahoor, F., Satyam, N. & Rao, K.S. (2023). "A comprehensive review of the nonlinear response of soil deposits and its implications in ground response analysis." *Indian Geotechnical Journal*, 54, 781-799

J6. Zahoor, F., Rao, K. S., Mir, B. A., and Satyam, N. (2023). "Geophysical surveys in the Kashmir valley (J&K Himalayas) part II: anomalous seismic site-effects and exploration of alternative site classification schemes." *Soil Dynamics and Earthquake Engineering*, *174*, 108185.

J5. **Zahoor, F.,** Rao, K. S., Mir, B. A., and Satyam, N. (2023). "Geophysical surveys in the Kashmir valley (J&K Himalayas) part I: estimation of dynamic parameters for soils and investigation of the deep basin structure." *Soil Dynamics and Earthquake Engineering,* 174, 108155.

J4. **Zahoor, F.**, Ansari, A., Rao, K. S., and Satyam, N. (2023). "Seismic hazard assessment of Kashmir region using logic tree approach: focus on sensitivity of PSHA results towards declustering procedures and GMPEs." *Pure and Applied Geophysics*, 180, 789–827.

J3. Ansari, A., **Zahoor, F.,** Rao, K.S., and Jain, A. K. (2022). "Seismic response and vulnerability evaluation of Jammu region (Jammu and Kashmir)." *Indian Geotechnical Journal*, 509-522.

J2. Ansari, A., **Zahoor, F.**, Rao, K. S., and Jain, A. K. (2022). "Liquefaction hazard assessment in a seismically active region of Himalayas using geotechnical and geophysical investigations: a case study of the Jammu Region." *Bulletin of Engineering Geology and the Environment*, 81(9), 349.

J1. Ansari, A., **Zahoor, F.**, Rao, K. S., and Jain, A. K. (2022). "Seismic hazard assessment studies based on deterministic and probabilistic approaches for the Jammu region, NW Himalayas." *Arabian Journal of Geosciences*, 15(11), 1081.

BOOK CHAPTERS

B11. Zahoor, F., Mir, F.U.H., Rao, K.S., Satyam, N., Bhat, A.R., Bashir, A.B., Gulzar, N.M., Anjum, S., Bhat, A.J., Mir, F., Hassan, N.U., Dar, W.A., Amin, A.U., Ahmad, T., Kataria, W.A., and Altaf, P.U. (In press, 2025). "Ground response analysis for major geological deposits in the Srinagar City of Jammu and Kashmir" *Proceedings of the Indian Geotechnical Conference 2025, Lecture Notes in Civil Engineering,* Springer, Singapore

B10. Zahoor, F., Rao, K.S., and Satyam, N. (In press, 2025). "Seismic microzonation of the Greater Srinagar Region in Jammu and Kashmir." *Proceedings of the Indian Young Geotechnical Engineers Conference 2025, Lecture Notes in Civil Engineering,* Springer, Singapore

B9. Bhat, A., and **Zahoor, F.** (2026). **"**Soil-structure resonance study using microtremor measurements in Srinagar City, Kashmir Valley" In: Baadiga, R., Satyam, N., Peddinti, P.R.T. (eds) Developments in Earthquake Engineering, Tunneling, and Rock–Soil Interaction. IYGEC 2025. *Lecture Notes in Civil Engineering*, vol 837. Springer, Singapore, pp. 161-174.

B8. Zahoor, F., Kumari, A., Suman, S., and Kalsi, R. (2025). "Assessment of seasonal variability in microtremor HVSR amplitudes and resonance frequencies linked to precipitation: case study in Kashmir Valley." *Proceedings of the Indian Geotechnical Conference 2024, Lecture Notes in Civil Engineering,* vol 10. Springer, Singapore, pp. 309-325.

B7. Zahoor, F., Seshagiri Rao, K., Wani, F. S., Andrabi, S. M., and Satyam, N. (2023). "Evaluation of site effects using HVSR measurements along Srinagar Metro alignment, Jammu and Kashmir." In: Soil Dynamics, Earthquake and Computational Geotechnical Engineering, *Proceedings of the Indian Geotechnical Conference 2021,* Springer Nature Singapore, pp. 405-415.

B6. Ansari, A., **Zahoor, F.,** Seshagiri Rao, K., Jain, A. K., and Riyaz, T. U. (2023). "Seismic vulnerability of residential buildings in Jammu city, Jammu and Kashmir." In: Muthukkumaran, K., Ayothiraman, R., Kolathayar, S. (eds.) Soil Dynamics, Earthquake and Computational Geotechnical Engineering, *Proceedings of the Indian Geotechnical Conference 2021, Lecture Notes in Civil Engineering*, vol 300. Springer, Singapore. https://doi.org/10.1007/978-981-19-6998-0_34

B5. Ansari, A., **Zahoor, F.,** Rao, K.S., Jain, A.K., Pal, A., Kumar, N., Hajam, S.M., Shukla, P., Sharma, K., Fayaz, F. and Yousuf, M.A. (2022). "Assessment of double resonance from microtremor observations for Jammu region in India." In: Shrikhande, M., Agarwal, P., Kumar, P.C.A. (eds) Proceedings of 17th Symposium on Earthquake Engineering (Vol. 4). SEE 2022. *Lecture Notes in Civil Engineering*, vol 332. Springer, Singapore.

B4. **Zahoor, F.,** Rao, K. S., Hajam, M. Y., Kumar, I. A., and Najar, H. A. (2021). "Geotechnical characterization and mineralogical evaluation of soils in Srinagar city, Jammu and Kashmir." In: Patel, S., Solanki, C.H., Reddy, K.R., Shukla, S.K. (eds.), *Proceedings of the Indian Geotechnical Conference 2019, Lecture Notes in Civil Engineering*, Vol 133. Springer, Singapore. https://doi.org/10.1007/978-981-33-6346-5_6

B3. **Zahoor, F.,** Rao, K. S., Malla, S. A., Tariq, B., and Bhat, W. A. (2021). "Seismic site characterization using MASW of sites along Srinagar Metro rail alignment, Jammu and Kashmir. In: Patel, S., Solanki, C.H., Reddy, K.R., Shukla, S.K. (eds.) *Proceedings of the Indian Geotechnical Conference 2019, Lecture Notes in Civil Engineering*, Vol 138. Springer, Singapore. https://doi.org/10.1007/978-981-33-6564-3_49

B2. Zahoor, F., and Mir, B. A. (2021). "Jammu and Kashmir." In: Shukla, S. K. (Ed.), Geotechnical Characteristics of Soils and Rocks of India. CRC Press, London, UK.

B1. Zahoor, F., Rao, K. S., Banday, Z. Z., Bhat, M. A., and Farooq, M. F. (2019). "Liquefaction potential analysis of Srinagar city, Jammu and Kashmir." Earthquake Geotechnical Engineering for Protection and Development of Environment and Constructions. CRC Press, London, UK.

CONFERENCE PUBLICATIONS

C6. Zahoor, F., and Raina, B.A. (2025). **"**Seismic Site Characterization of the Ganderbal District, Kashmir Valley." *Proceedings, European Geosciences Union General Assembly,* Vienna, Austria. 27 April – 02 May 2025

C5. Zahoor, F., Ali, V., Ahmad, B., and Jeelani, I. U. H. (2024). **"**Seismic risk microzonation mapping using microtremor recordings for an urban area in the vicinity of Lamni Fault, southern Kashmir Basin." *Proceedings, European Geosciences Union General Assembly,* Vienna, Austria. 14-19 April 2024

C4. Zahoor, F., Ansari, A., Rao, K. S., and Satyam, N. (2023). "Atypical site effects and insufficiency of the conventional seismic site classification methods: experimental observations in the geological deposits of the Kashmir Valley (NW Himalayas), Jammu and Kashmir." *Proceedings, European Geosciences Union General Assembly,* Vienna, Austria. 23-28 April 2023

C3. Ansari A., **Zahoor F.,** Rao K. S., Jain A. K. (2022). "Logic tree based seismic hazed evaluation of Jammu and Kashmir." *Proceedings, EGRWSE 2022*, Izmir, Turkiye.

C2. Ansari, A., **Zahoor, F.,** Rao, K. S., and Jain, A. K. (2022). "Deterministic approach for seismic hazard assessment of Jammu Region, Jammu and Kashmir." *Proceedings, Geo-Congress 2022*, Charlotte, North Carolina, USA.

C1. **Zahoor, F.**, Rao, K. S., Ahmad, B., Jeelani, I. U. H., and Satyam, N. (2022). "Single-station MHVSR as a rapid tool to detect faults: case study of a reverse fault at Aharbal, Shopian, Kashmir Valley." *Proceedings, Geo-Congress 2022*, Charlotte, North Carolina, USA.

MAGAZINE ARTICLES

M1. Ahmad, B., **Zahoor, F.,** Ahmad, S., and Tariq, B. (2022 June 11). "Geohazard perspective of recent sink hole in the Kashmir Valley." *Know Disasters.* Webpage: https://knowdisaster.com/geohazard-perspective-of-recent-sink-hole-in-the-kashmir-valley/

ONLINE DATASETS

D3. Zahoor, F., and Rao, K. S. (2023). "MASW and MHVSR dataset for the geological deposits of the Kashmir Basin, Jammu and Kashmir.", Seismic site characterisation of Kashmir Valley, Jammu and Kashmir, *Project no.: PRJ-4058*, DesignSafe-CI.

D2. Zahoor, F., and Rao, K. S. (2023). "Geophysical dataset for site characterisation considering seismic anomalies.", Anomalous seismic site response in the geological deposits of Kashmir Valley, Jammu and Kashmir, *Project No.: PRJ-4056*, DesignSafe-CI.

D1. Zahoor, F., and Rao, K. S. (2023). **"**DesignSafe dataset for Lamni fault, Kashmir: MHVSR and MASW/MSOR.", Fault detection using anomalous amplifications in MHVSR Data, *Project No.: PRJ-4150*, DesignSafe-CI.

RESEARCH GRANTS AND OTHER FUNDING

G1. "Seismic site characterization of Srinagar and adjoining districts". *Seed Money Project – Research and Development Funds under TEQIP-III, NIT Srinagar*, ₹ 1 lakh, 2019.

G2. One day workshop and five-day short term course on "Earthquake Risk Reduction in Jammu and Kashmir"**.** *Part of Capacity Building Programmes (Trainings/Workshops) under Disaster Management, Relief, Rehabilitation, and Reconstruction (DMRRR) – State Disaster Response Funds (SDRF) by the State Executive Committee*, *Jammu and Kashmir,* ₹ 8.5 lakhs, 2025-2026.

MAJOR CONSULTANCY PROJECTS

P2. Geophysical and geotechnical assessment of soils in the Central University of Kashmir Campus for proposal of foundation solutions, ₹ 25 Lakh - 2021

P1. Soil sample testing for PMGSY projects. - 2017-2023

TEACHING EXPERIENCE

As Assistant Professor and Teacher Trainee at NIT Srinagar

Undergraduate level (B.Tech)

- CIV-503 Geotechnical Engineering I – Autumn 2017-2022, 2025
- CIV-603 Geotechnical Engineering II – Spring 2017-2023,2025
- CVL-303 Geotechnical Engineering I Laboratory – Autumn 2017-present
- CVL-352 Geotechnical Engineering II Laboratory – Spring 2017-present
- CIL-100 Engineering Mechanics – Autumn, 2019, 2020, 2022
- CIP-100 Engineering Drawing – Spring, Autumn 2023-2025, 2026
- CVT-402 Structural Dynamics – Autumn 2024

Postgraduate level (M.Tech)

- CGE-204 Soil Engineering Lab-II – Spring 2025
- CGE-116 Geosynthetics in Geotechnical Engineering – Autumn 2023
- E2 CGE-117 Soil Dynamics and Machine Foundations – Autumn 2024
- E1 CGE-311 Landfill Engineering – Autumn 2025
- C1 CGE-204 Soil Dynamics Laboratory – Spring 2026

STUDENT ADVISING

As Assistant Professor and Teacher Trainee at NIT Srinagar

Ph.D. students

- Akbar, K. (2025- present). Topic under discussion.
- Rahim, D. (2024-present). *"Dynamic characterization of Karewa soils in Kashmir."*

M.Tech students

- Mir, I. (2026). *"Landslide hazard assessment in the Pohru basin of Kupwara, J&K."*
- Zaman, M. U. (2026). "*Investigation of the April 2025 rainfall-induced slope failure at Seri, Ramban, and evaluation of soil nailing as a mitigation measure."*

- Amin, F. (2026). "*Microtremor-based evaluation of fundamental frequencies and resonance risk assessment of buildings at NIT Srinagar and Kashmir University.*"
- Ahmad, B. (2024-2025). "*Seismic site characterization of the Ganderbal District of Kashmir Valley using MASW and HVSR.*"
- Saleem, A. (2024-2025). "*Dynamic characterization and seismic risk assessment of selected buildings on varied soil deposits in Srinagar City*".
- Ali, W. (2023-2024). "*Seismic microzonation of Sedow, Shopian in vicinity of Lamni Fault.*"
- Aziz, I. (2023-2024). "*Seismic zonation and risk assessment of structures in Greater Srinagar Metropolitan, J&K.*"
- Naaz, N. (2023-2024). "*Earthquake-induced liquefaction effects along river Jhelum in the Kashmir valley.*"

B.Tech students

- Salim, K.F., Kumar, D., and Malik, S. (2026). "*Geotechnical characterization and seismic ground response analysis of a Karewa soil deposit at Bandipora, Kashmir.*"
- Yousuf, F., Manzoor, S., and Balaji, G. (2026). " *Landslide susceptibility assessment of some selected sites in Pohru Basin, Kupwara, NW Himalayas.*"
- Kumari, C., Kumari, A., and Ali, D. (2025). "*Comparison of linear, equivalent-linear, and non-linear ground response analyses using DEEPSOIL.*"
- Oraon, S., Meena, M., and Dhananjay. (2025). "*Parametric study of ground response analysis using DEEPSOIL.*"
- Kumari, A., Suman, S., Kalsi, R. (2024). **"***Seasonal variations in amplitudes and resonance frequencies of the HVSR amplification peaks linked to groundwater table and compaction.*"
- Sahar, Sharma, A., and Chaudhary, V. (2023). "*Bearing capacity assessment of soils in Kashmir Valley, J&K.*"
- Khan, S. R., Kumar, D., and Singey, S. (2022). "*Liquefaction potential assessment of soils in the complete Kashmir valley.*"
- Rooman, Shah, T., and Nisar, S. (2022). **"***Geotechnical characterisation of an exposed Upper Karewa section capped with loess-paleosol at Mazhama, Budgam*".
- Bashir, O. and Ahmad, S. (2021). "*Bearing capacity assessment of soils in Greater Srinagar for vertical expansion of the city*".
- Wani, F. S., Andrabi, M. R. and Mongra, R. (2019). "*Local site effects estimated from ambient noise vibration measurements in Srinagar city.*"
- Hajam, Y. A., Kumar, I. A. and Najar, H. A. (2019). "*Geotechnical characterization of soils of Srinagar city, J&K.*"
- Iqbal, T., Kataria, W. A. and Altaf, P. U. (2019). "*Seismic site response analysis of sites in Srinagar city using shear wave velocity determined from MASW.*"
- Malla, S. A., Tariq., B. and Bhat, W. A. (2019). "*Seismic characterization of sites in Srinagar city, J&K using Multichannel Analysis of Surface Waves technique.*"
- Bhat, N. U. H., Amin, A. U., and Dar, W. A. (2018). "*Characterisation of soils in Srinagar City using geophysical tests (MASW).*"
- Anjum, S., Mir, F., and Bhat, A. J. (2018). "*Seismic hazard assessment of Srinagar City.*"
- Banday, Z. Z., Bhat, M.A. and Farooq, M. F. (2018). "*Liquefaction potential analysis of soils in Srinagar, J&K using SPT N values.*"
- Bashir, A., Bhat, A. B. and Gulzar, N. M. (2018). "*Liquefaction potential analysis of soils in Srinagar, J&K using shear wave velocity determined from MASW.*"

Interns hosted

- Khusheeba Noor, SMVDU (June-July 2026). "*Rapid visual survey and dynamic characterization of buildings in Kashmir University, Srinagar)*".
- Shahbaz Ahmad Mir, Integral University of Lucknow (June-July 2025). "*Forensic geotechnical exploration of land subsidence in Rainawari area, Srinagar.*"

WORKSHOPS/LECTURES ORGANISED

W6. Two-day lecture series on "Engineering in the Himalayas: Advances in Rock Mechanics and Ground Improvement" through IGS Srinagar Chapter at NIT Srinagar, 14th-15th May 2026.

W5. One-day workshop on "Earthquake risk reduction in J&K" through DMRRR and IGS Srinagar Chapter at NIT Srinagar, 24th October 2025

W4. Five-day workshop on "An introductory workshop on finite element methods and machine learning in geotechnical engineering" through PMRF at NIT Srinagar, 16th – 20th June 2025

W3. One-day workshop on "Vernacular building style and earthquake prone areas with special reference to Kashmir", through IGS Srinagar Chapter at NIT Srinagar, 10th October 2024

W2. One-day workshop on "Indian nuclear power program: history, evolution, and the way forward", through INS and IGS Srinagar Chapter at NIT Srinagar, 15th April 2024

W1. Five-day workshop on "Advancements in geotechnical and foundation engineering for difficult ground conditions", under TC216, ISSMGE, through IGS Srinagar Chapter at NIT Srinagar, 26th-30th July 2023

WORKSHOPS ATTENDED

A18. Gunvatta Yatra Program on NABL ISO/IEC 17025:2017 Accreditation, 6th August 2026 at NIT Srinagar

A17. COSMOS Technical Session and Annual Meeting. 18th-19th February, 2026 (Hybrid)

A16. Pre-conference workshop on advances in geophysical investigations, geotechnical instrumentation, repair and rehabilitation technologies for dams, 3rd INSGC 2025, 12th November 2025

A15. Online workshop on advanced seismic design for resilient structures, organised by Ennovare Research Academy, 20th September 2025

A14. Faculty development program on geotechnical innovations for sustainable and disaster-resilient infrastructure, organised by IGS-Tadepalligudem Chapter, 15th-19th September 2025

A13. Geophysics webinar series (Part 1: subsurface intelligence for dam safety, Part 2: X-raying the city, Part 3: chasing contamination, Part 4: the next frontier, Part 5: powering the energy transition), organized by EAGE leading up to 3rd INSG Conference, 23rd August-18th October 2025

A12. Online lecture series on geotechnical investigation – planning geotechnical investigation works for small, medium, and large projects, organised by IGS-IIT Tirupati Student Chapter, 22nd August 2025

A11. Learning from earthquakes (LFE) program: a two-part webinar series sharing observations on the March 28, 2025 M7.7 Myanmar earthquake (Part 1:impacts in Myanmar, and Part 2: impacts in Thailand and engineering implications), organized by EERI, 31st July 2025 and 7th August 2025

A10. Faculty development program on innovative approaches in dynamics of soils and structures, organized by HBTU Kanpur, 21st-25th July 2025

A9. Short course on earthquake vulnerability assessment of dams: potential failure modes approach, organized by NCESD, MNIT Jaipur, 6th-10th January 2025

A8. Joint fit of H/V, dispersion curves and other data: exercise session, organized by MoHo srl Italy, 26th July 2023

A7. H/V and Vs contour, organized by MoHo srl Italy, 12th July 2023

A6. H,V, H/V: focus on Vs, organized by MoHo srl Italy, 21st October 2021

A5. Experimental dynamic characterisation of structures, organized by MoHo srl Italy, 23rd July 2021

A4. H,V, H/V, organized by MoHo srl Italy, 7th May 2021

A3. International seminar on contaminated sites and concurrent conference on geoenvironment and sustainability, organised by IIT Delhi, 17th-19th February 2020

A2. Faculty development program on outcome-based education, TEQIP-III, NIT Srinagar, 18th-22nd May 2019

A1. Training course on analysis and design of tunnels in the Himalayas, organised by IIT Delhi for IRCON and Northern Railway, at IIT Jammu Paloura, 17th-21st January 2017

OTHER PROFESSIONAL SERVICES / OUTREACH

- Member, Registration and Decoration Committees, Rang-e-Chinar 2025, NIT Srinagar - 2025
- Coordinator, Alumni-back-to-classroom (ABC), Sangam Alumni Meet - October 2025
- Coordinator, Projects and Seminars (B.Tech), NIT Srinagar - 2025 – 2026
- Member, Committee for Earthquake Risk Reduction and Management for the Union Territory of Jammu and Kashmir, DMRRR - 2025
- Member, Food/Refreshment Committee, National Seminar on Bhartiya Bhashaon Mein Ekatmata, NIT Srinagar - 2025
- Examiner for Kashmir University - 2024-present
- Coordinator, Civil Engineering, Techvaganza 2024, NIT Srinagar - 2024- present
- Member, Registration Committee, Smart India Hackathon 2024, NIT Srinagar - Dec 2024
- Faculty mentor for a group of B.Tech students, NIT Srinagar - 2023 - present
- Laboratory incharge, Geotechnical Engineering Lab, NIT Srinagar - 2023 - present
- Member, Committee for National Board of Accreditation, NIT Srinagar - 2018-2021
- Member, Course Curriculum Revision Committee, NIT Srinagar - 2018 - 2025
- Member, purchase committee for MASW and microtremor equip., NIT Srinagar -2017-2020
- Keynote speaker at the International Conference on Sustainable Materials and Infrastructure, 16th to 18th December 2025, IIT Jammu, India
- Reviewer for:

- Soil Dynamics and Earthquake Engineering
- Bulletin of Engineering Geology and the Environment
- Geotechnical and Geological Engineering
- Meaurement
- Journal of Earthquake and Tsunami
- Journal of Geological Society of India
- Indian Geotechnical Journal
- Earthquake Research Advances
- Environmental Science and Pollution
- Environment and Earth Science
- Arabian Journal of Geosciences
- Iranian Journal of Sience and Technology
- Asian Journal of Civil Engineering
- Discover Geoscience
- Frontiers
- Scientific Reports
- Indian Geotechnical Conferences (IGC) for the years 2023, 2024, 2025
- Indian Young Geotechnical Engineers Conference (10IYGEC) 2025
- International Conference for Artificial Intelligence: Applications, Innovation and Ethics 2025
- IGS-AIMIL-HCV YGE award (2025) for the best paper on "Geotechnical Investigation and Testing"
- 13th National Conference on Earthquake Engineering (13NCEE 2026)

- Session chair for:
  - International Conference on Sustainable Materials and Infrastructure, 16th to 18th December 2025, IIT Jammu, India
  - "International Conference on Advanced Materials for Sustainable Future (ICMSF-2025)", Chitkara University, Punjab, 28-29th March 2025
  - "International Conference for Sustainable Future", Sri Mata Vaishno Devi University Katra, 28th February 2025

COMPUTER SKILLS

ArcGIS, DEEPSOIL, RCRISIS, Grilla, winMASW, Seismosoft, SeisImager, C++, MATLAB

PROFESSIONAL MEMBERSHIPS

- Indian Geotechnical Society (IGS)
- Geological Society of India (GSI)
- Indian Society of Earthquake Technology (ISET)
- International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE)
- Indian Society of Engineering Geology (ISEG)
- Institution of Engineers, India (IEI)
- European Geophysical Union (EGU)
- American Society of Civil Engineers (ASCE)
- American Geophysical Union (AGU)
- Earthquake Engineering Research Institute (EERI)

EXAMS

GATE: Marks/Score/All India Rank 37.96/498/3790 -2015