

CURRICULUM VITAE

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ACADEMIC QUALIFICATION

Ph.D. Geology	2021	National Institute of Technology, Srinagar, J&K
CSIR-UGC NET	2014	CSIR
M.Tech Exploration Geosciences	2014	Pondicherry University
M.Sc. Geology	2011	University of Kashmir
B.Sc. Geology, Geography, Zoology	2008	University of Kashmir

Specialization:

Ph.D. in Engineering Geology (*Paleoseismic Investigation of the Seismogenic Structures of Kashmir Basin, NW Himalaya: Implications for Earthquake Hazard and Engineering Design Risks*), 2020, under the supervision of **Dr. S.K. Bukhari**, Professor, Department of Civil Engineering, National Institute of Technology, Srinagar, J&K, 190006.

CERTIFICATIONS & TRAININGS

- ❑ Eight months training on Gas Hydrate Analysis under supervision of Dr Aninda Mazumder, CSIR-National Institute of Oceanography Dona Paula Goa.
- ❑ Tamil Nadu Magnesite Mines (TANMAG) Salem, Tamil Nadu: Summer Training (Ore Reserve Estimation).
- ❑ Training in various aspects of ground water investigation, exploration, development, monitoring, water quality analysis, management of ground water, estimation and rainfall analysis organized by Central Groundwater Board, South Eastern Coastal Region, Chennai.
- ❑ One-year industrial training experience with JKSPDC on preparation of DPRs for Hydroelectric Power projects.

WORK EXPERIENCE

- ❑ Five-year research experience in the field of Paleoseismology and active tectonics as a Research Scholar in the Department of Civil Engineering, NIT Srinagar under the guidance of Dr. S.K Bukhari.
- ❑ **Recognized Qualified Person (RQP)** for Department of Geology and Mining, Government of Jammu and Kashmir since 2018 (15/DGM/RQP/2018).
- ❑ Worked as **Assistant Professor** (Contractual) at Cluster University Srinagar (Department of Geology, S.P College Srinagar) from 30.03.2021 to 27.12.2021.

TECHNICAL SKILLS

- ❑ Paleoseismology, Active Tectonics, Seismology, Geological Hazards, Active fault mapping, Paleo-surface rupture maps, Paleoseismic Trenching on Normal and thrust fault scarps, mapping of primary surface ruptures of large to great magnitude earthquakes.
- ❑ Slope Stability Analysis, Bore well Logging, Sampling and Drilling, Site Specific Geological Investigation for residential, commercial and industrial developments.
- ❑ GIS and remote sensing: working with ArcView & ERDAS software's and handling GPS instrumentation.
- ❑ Geological Mining Plans for minor and major minerals, brick kilns and site plans.
- ❑ Software like Arc-GIS, Global Mapper, Mat lab, AutoCAD, Coral draw, Surfer, Adobe Illustrator, Rockworks, Map info, Stereonet, Win Tensor, Word, Excel, Power point.

PUBLICATIONS

International Publications

- ❑ **Yousuf, M.,** Bukhari, S. K., & Bhat, G. R. (2022). Tectonogeomorphic investigation of Kashmir Basin NW Himalaya. *Geology, Ecology, and Landscapes*, 1-21. **(Taylor and Francis)**
- ❑ Nanda, A. M., **Yousuf, M.,** Tali, P. A., Ul Hussan, Z., & Ahmed, P. (2021). Assessment of earthquake-triggered landslides along NH 1D in J&K, India: using multivariate approaches. *Modeling Earth Systems and Environment*, 1-8. **(Springer)**
- ❑ **Yousuf, M.,** Bukhari, S. K., & Bhat, G. R. (2021). Using paleo-liquefaction features to determine the likely source, magnitude and ground accelerations of pre-historic earthquakes in the Kashmir Basin (Northwestern Himalaya), India. *Engineering Geology*, 106302. **(Elsevier)**

- ❑ Ali, U., Ali, S. A., **Yousuf, M.**, Rasool, Q. A., Ahmad, M., & Ahmad, I. (2021). Consideration of geomorphic indices in assessment of relative active tectonics in a part of seismogenic compressional Kashmir Basin. *Arabian Journal of Geosciences*, 14(13), 1-15. (**Springer**)
- ❑ Bhat, G. R., Iqbal, V., **Yousuf, M.**, & Wani, S. (2021). Seismotectonics and Spatio-temporal Variations in Seismicity Rates along Andaman Trench. *Journal of the Geological Society of India*, 97(3), 249-254. (**Springer**)
- ❑ Nanda, A. M., **Yousuf, M.**, Islam, Z. U., Ahmed, P., & Kanth, T. A. (2020). Slope Stability Analysis along NH 1D from Sonamarg to Kargil, J&K, India: Implications for Landslide Risk Reduction. *Journal of the Geological Society of India*, 96(5), 499-506. (**Springer**)
- ❑ **Yousuf, M.**, & Bukhari, S. K. (2020). Evaluation of seismically induced Soft Sediment deformation structures vis-a-vis their probable earthquake sources in Kashmir basin, NW Himalaya. *Journal of Earthquake and Tsunami*, 2150003.
- ❑ **Yousuf, M.**, & Bukhari, S. K. (2020). Hazard Estimation of Kashmir Basin, NW Himalaya using Probabilistic Seismic Hazard Assessment. *Acta Geophysica*. 68(5), 1295-1316. (**Springer**)
- ❑ Bhat, G. R., Balaji, S., **Yousuf, M.**, & Bali, B. S. (2020). Primary on fault paleoseismic evidences from trench investigation along the Bathubasti fault, South Andaman, India. *Journal of Seismology*, 1-15. (**Springer**)
- ❑ **Yousuf, M.**, Bukhari, S. K., Bhat, G. R., & Ali, A. (2020). Understanding and managing earthquake hazard visa viz disaster mitigation strategies in Kashmir valley, NW Himalaya. *Progress in Disaster Science*, 5, 100064. (**Elsevier**)
- ❑ **Yousuf, M.**, & Bukhari Kaiser, S. (2019). Impact of geological and environmental complexities over infrastructure development in Kashmir Himalaya. *Disaster Advances*, 12(4), 29-40.
- ❑ Bhat, G. R., Balaji, S., Iqbal, V., Balakrishna, B., & **Yousuf, M.** (2019). Neotectonics and related crustal deformation along Carbyn thrust fault, South Andaman, India: implications of the frontal surface faulting and propagation of tectonic activity towards Andaman trench. *Arabian Journal of Geosciences*, 12(5), 149. (**Springer**)
- ❑ Bukhari, S. K., **Yousuf, M.**, & Dar, A. M. (2018). A study of seismic resilience and construction techniques of Srinagar city, Jammu and Kashmir, India. *Disaster Advances*, 11(10), 26-36.
- ❑ **Yousuf, M.**, Bukhari, S. K., Dar, A. M., & Mir, A. A. (2018). Seismic vulnerability assessment of major construction pattern of the of Srinagar city. *International Journal of Advance Research and Engineering*, 7(4), 1889-1901.

- ❑ Dar, A. M., Bukhari, K., & **Yousuf, M.** (2018). Earthquake consequence and micro-seismicity of Kashmir Valley: An estimation of future risks and safety. *International Journal of Advance Research in Science and Engineering*, 7(4).

National Publications

- ❑ Dar, A. M., Lasitha, S., Bukhari, K., & **Yousuf, M.** (2017). Delineating Deep Basement Faults in Eastern Dharwar Craton through Systematic Methods of Geophysics and Remote Sensing vis-à-vis the Concerns of Moderate Seismicity. *J Geogr Nat Disast*, 7(184), 2167-0587.
- ❑ Mir, A. A., **Yousuf, M.**, & Ahmed, P. (2017). Integrated Land Resource Management Plan for Pohru Watershed of Kashmir Valley (J & K). *i-Manager's Journal on Civil Engineering*, 7(4), 35.
- ❑ Bukhari, S. K., **Yousuf, M.**, & Dar, A. M. (2016). A Study of Papercrete towards Building Sustainable and Resilient Infrastructure. *i-Manager's Journal on Structural Engineering*, 5(2), 27.
- ❑ Bukhari, K., **Yousuf, M.**, & Dar, A. M. (2016). Seismic Vulnerability of Century Old Buildings of Srinagar City, Kashmir Himalaya, India-A Case Study. *i-Manager's Journal on Civil Engineering*, 7(1), 45.
- ❑ Bukhari, S. K., Dar, A. M., & **Yousuf, M.** (2015). Development of Modified Jute Reinforced Concrete: An Overview. *i-Manager's Journal on Structural Engineering*, 4(4), 17.
- ❑ Bukhari, S. K., Dar, A. M., & **Yousuf, M.** (2015). Tunnel Construction in Pir Panjal (Himalaya) Using NATM [Case Study T-74R Railway Tunnel of Katra-Banihal Section of Kashmir Rail Project]. *i-Manager's Journal on Civil Engineering*, 6(1), 48.

CONFERENCE/ PROCEEDINGS

- **Maqbool Yousuf:** Assessment of Earthquake-Triggered Landslides along NH 1D in J&K, India: Using Multivariate Approaches. *33rd Conference of the Indian Institute of Geomorphologists (IGI) on Geomorphology and Environmental Sustainability*, 02th-04th December 2021.
- **Maqbool Yousuf**, Kaiser Bukhari, Ayaz Mohmood, Iftikhar Hussain, Mohd Ashraf: Neotectonics and related crustal deformation in Kashmir Himalaya, India: Implications to strain partitioning on out of sequence thrusting. *National Seminar on Dynamics of Surface and Subsurface Geological Processes*, Pondicherry University, February, 8-9, 2018.
- **Maqbool Yousuf**, Kaiser Bukhari, Ayaz Mohmood Dar: Quaternary crustal deformation on Active out-of-sequence thrust faults in Kashmir Himalaya, *13th JK Science Congress*, April 02-04, 2018, Kashmir, India.
- **Maqbool Yousuf**, Kaiser Bukhari, Ayaz Mohmood, Abaas Ahmad Mir: Seismic vulnerability assessment of major construction pattern of the of Srinagar city, *1st International Conference on Recent Developments in science, Humanities and management-2018 (ICRDSHM-18)*, 20 March 2018.

- **Maqbool Yousuf**, Ayaz Mohmood Dar, Syed Kaiser Bukhari: Landslide hazard and risk analysis of National Highway-1A (NH-1A) from Jammu to Anantnag: implications to Landslide risk reduction, Sixth Indian Young Geotechnical Engineers conference 6IYGEC2017 10-11 March 2017, NIT Trichy, India
- Ayaz Mohmood Dar, **Maqbool Yousuf**, Syed Kaiser Bukhari: An Introduction to the methodology of remote sensing and GIS for the consideration of civic-infrastructure in Indian subcontinent. A Case studies from Kashmir Basin Sixth Indian Young Geotechnical Engineers conference 6IYGEC2017 10-11 March 2017, NIT Trichy, India
- Ayaz Mohmood, Kaiser Bukhari, **Maqbool Yousuf**: Earthquake consequence and micro-seismicity of Kashmir Valley: An estimation of future risks and safety, *1st International Conference on Recent Developments in science, Humanities and management-2018 (ICRDSHM-18)*, 20 March 2018.
- Ayaz Mohmood, Kaiser Bukhari, **Maqbool Yousuf**, Iftikhar Hussain, Mohd Ashraf: Remote sensing and GIS for delineating faults vis-a-vis monitoring the consequences of Himalayan cities. *National Seminar on Dynamics of Surface and Subsurface Geological Processes*, Pondicherry University, February, 8-9, 2018.
- Iftikhar Hussain, Kaiser Bukhari, Ayaz Mohmood, **Maqbool Yousuf**, Mohmad Ashraf: Ground Water Quality Mapping in Shiwalik Himalayas, Jammu using Geostatistical Approach. *National Seminar on Dynamics of Surface and Subsurface Geological Processes*, Pondicherry University, February, 8-9, 2018.
- Ayaz Mohmood Dar, **Maqbool Yousuf**, Kaiser Bukhari: Himalayan Earthquakes & Disaster consequences. A case study from Ganderbal district, Jammu & Kashmir, *13th JK Science Congress*, April 02-04, 2018, Kashmir, India.
- Mohd Ashraf, Kaiser Bukhari, **Maqbool Yousuf**, Ayaz Mohmood, Iftikhar Hussain: Watershed Characterization of the Sandran Catchment of Jhelum Basin using Remote Sensing & GIS. *National Seminar on Dynamics of Surface and Subsurface Geological Processes*, Pondicherry University, February, 8-9, 2018.

DECLARATION

I hereby declare that all the details furnished above are correct and trustworthy to the best of my knowledge.



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References:**Dr S. K. Bukhari**

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