

Name: Midhat Fayaz

E-mail: midhatfayaz@gmail.com

Supervisor: Prof. Shakil A. Romshoo

Co-supervisor (if applicable): Dr. Rakesh Chandra

Research Area: Glaciology, Seismology, Urbanization, Seismic vulnerability, Seismic risk assessment, Remote Sensing and GIS



Research Interests: I have my research interests tied to land surface processes, ranging from glaciology-alpine snow and glacier dynamics to seismic microzonation for the identification, planning, and protection of urban development to reduce the earthquake hazard risks in an area. I am interested in using my technical skills in Geoinformatics to develop methods and approaches that can help identify and protect vulnerable neighborhoods in seismic regions. My primary area of study is the region of Kashmir. Keeping in view the recurrence interval of the earthquakes in and around the valley and location of area in the seismic zone V of the country, it becomes inevitable to assess the seismic vulnerability and do the risk assessment of the populated neighborhoods of the area.

Publications (if any):

Romshoo, S. A., **Fayaz, M.**, Meraj, G., & Bahuguna, I. M. (2020). Satellite-observed glacier recession in the Kashmir Himalaya, India, from 1980 to 2018. *Environmental Monitoring and Assessment*, 192(9), 1-17.

Romshoo, S. A., & **Fayaz, M.** (2019). Use of High Resolution Remote Sensing for Improving Environmental Friendly Tourism Master Planning in the Alpine Himalaya: A Case Study of Sonamarg Tourist Resort, Kashmir. *J. Himalayan Ecol. Sustain. Dev. Vol 14*.

Chandra, R., Dar, J. A., Romshoo, S. A., Parvez, I. A., Rashid, I., Mir, S. A and **Fayaz, M.** (2017). Seismic Hazard and Vulnerability Assessment of Kashmir Valley, NW Himalaya, *Journal of Natural Hazard*.

Romshoo, S., A. Judelsohn, **Fayaz, M.** and S. Raja. (2018). Land Use Planning to Strengthen Food Equity: A Case Study of Haakh Production in the Region of Kashmir. Presented at the Asia @ Noon Series, University at Buffalo, State

University of New York. February 9, 2018.

Romshoo, S., A. Judelsohn, **Fayaz, M.** and S. Raja. (2018). Socio-Economic changes, land system dynamics and food security in Kashmir: A case study of Haakh (collards) shrinking production. . Proceedings of the ACSP Annual conference, Buffalo, New York, October 2018.

Romshoo, S. A., Rashid, I., Meraj, G., **Fayaz, M.** (2016). Monitoring Snow and Glaciers of Himalayan Region, Space Applications Centre, ISRO, Ahmedabad, India.