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**Co-supervisor (if applicable):**

**Research Area:** Hydrology



**Research Interests:**

Hydrology, hydrological modelling, climate change, flood hydrology, Natural hazards, remote sensing and GIS.

**Publications (if any):**

1. Romshoo, S. A., Rashid, I., **Sadaff Altaf**, and Dar, G. H. (2019). Jammu and Kashmir state: an overview. In Biodiversity of the Himalaya: Jammu and Kashmir State (pp. 129-166). Springer, Singapore.
2. Shakil A Romshoo and **Sadaff Altaf** (2018). Geomatics Applications for Himalayan Region. In: Advancements in geospatial technology for societal benefits, Special issue of the Indian Society of Geomatics Newsletter, Vol. 24 (3-4): 1-6, December, 2018.
3. Shakil A. Romshoo, **Sadaff Altaf**, Muzamil Amin & Umar Ameen (2017). Sediment Yield Estimation for Developing Soil Conservation Strategies in GIS Environment for the Mountainous Marusudar Catchment, Chenab Basin, J&K, India. Journal of Himalayan Ecology and Sustainable Development. Vol. 12(2017): 16-32, ISSN No. 0973-7502.
4. Shakil A. Romshoo, **Sadaff Altaf**, Irfan Rashid & Reyaz A. Dar (2017). Climatic, geomorphic and anthropogenic drivers of the 2014 extreme flooding in the Jhelum basin of Kashmir, India. Geomatics, Natural Hazards and Risk, 9(1), 224-248.
5. Gowhar Meraj, Shakil A. Romshoo, Sameena Ayoub & **Sadaff Altaf** (2017). Geoinformatics based approach for estimating the sediment yield of the mountainous watersheds in Kashmir Himalaya, India. Geocarto International, 33(10), 1114-1138.
6. Gowhar Meraj, Shakil A. Romshoo, A. R. Yousuf, **Sadaff Altaf** & Farrukh Altaf (2014). Assessing the influence of watershed characteristics on the flood vulnerability of Jhelum Basin in Kashmir Himalaya: reply to comment by Shah 2015. Natural Hazards 06/2015;

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7. Gowhar Meraj, Shakil A. Romshoo, A. R. Yousuf, **Sadaff Altaf** & Farrukh Altaf (2014). Assessing the influence of watershed characteristics on the flood vulnerability of Jhelum basin in Kashmir Himalaya. *Natural Hazards*, 77(1). DOI:10.1007/s11069-015-1605-1.
8. **Sadaff Altaf**, Gowhar Meraj, and Shakil A. Romshoo (2014). Morphometry and Land Cover Based Multi-criteria Analysis for Assessing the Soil Erosion Vulnerability of the Western Himalayan Watershed. *Environmental monitoring and assessment* 08/2014; 186(12), DOI:10.1007/s10661-014-4012-2.
9. Gowhar Meraj, Shakil A. Romshoo and **Sadaff Altaf** (2014). Inferring Land Surface Processes from Watershed Characteristics. *Geostatistical and Geospatial Approaches for the Characterization of Natural Resources in the Environment Challenges, Processes and Strategies*, 2016 edited by Raju N. Janardhana, 11/2015: chapter Inferring Land Surface Processes from Watershed Characterization: pages 741-744; Springer International Publishing., ISBN: 978-3-319-18663-4.