Stanford

Aakash Ahamed

Ph.D. Student in Geophysics

Curriculum Vitae available Online

Bio

BIO

Aakash Ahamed (BS, with honors, Franklin and Marshall College; MSc, Boston College; PhD Candidate, Stanford University) is a hydrologist developing scientific methods for satellite and airborne remote sensing measurements with applications to water resources, natural hazards, and agricultural systems. As a PhD Candidate in the Department of Geophysics, his current doctoral project focuses on modeling, monitoring, and forecasting key hydrologic components of the Central Valley Aquifer System in California using techniques in data assimilation and machine learning. Aakash previously worked as a support scientist in the Hydrological Sciences Lab at NASA Goddard Space Flight Center, where he constructed satellite-based models of flood and landslide hazards. He has also developed remote sensing analyses and software at Ceres Imaging, a successful precision agriculture start up based in Silicon Valley, and interned as a GIS analyst at the World Wildlife Fund for Nature in Washington, DC.

Publications

PUBLICATIONS

- **Automated Satellite-Based Landslide Identification Product for Nepal** *EARTH INTERACTIONS*
  Fayne, J., Ahamed, A., Roberts-Pierel, J., Rumsey, A. C., Kirschbaum, D.
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- **Socioeconomic Impact Evaluation for Near Real-Time Flood Detection in the Lower Mekong River Basin** *HYDROLOGY*
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- **A MODIS-based automated flood monitoring system for southeast asia** *International Journal of Applied Earth Observation and Geoinformation*
  Ahamed, A., Boltenb, J. D.
  2017; 61: 104 - 117

- **Near Real Time Flood Monitoring and Impact Assessment Systems** *Remote Sensing of Hydrological Extremes*
  Ahamed, A., Bolten, J. D., Doyle, C., Fayne, J.
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- **Optical and Physical Methods for Mapping Flooding with Satellite Imagery** *In Remote Sensing of Hydrological Extremes*
  Fayne, J., Lakshmi, V., Bolten, J., Ahamed, A.
  Springer.2017: 83–103