



Dr. Joseph Zume

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Primary interests

Hydrology

Groundwater flow and transport modeling

Physical geography

Environmental geophysics

Climate variability

Geostatistics

A family grave site in central Nigeria, and a typical hand dug well.

Recent research

Zume Joseph and Aondover Tarhule (2008). Simulating the impacts of groundwater pumping on stream-aquifer dynamics in semiarid northwestern Oklahoma, U.S.A. *Hydrogeology Journal*, vol 16, 797-810.

Zume Joseph and Aondover Tarhule (2006). Precipitation and streamflow variability in northwestern Oklahoma, 1894-2003. *Physical Geography*, vol 27 (3) 189-205.

Zume Joseph, Aondover Tarhule, and Scott Christenson (2006). Subsurface imaging of an abandoned solid waste landfill site in Norman, Oklahoma. *Groundwater Monitoring and Remediation*, vol.26 (2) 62-69.

Other ongoing research: Assessment of hydroclimatic variability in the Lower Susquehanna River Basin; Assessing the impacts of burial practices in rural central Nigeria on groundwater quality

Courses

Ess 111 Intro to the Atmosphere

Geo 101 World Geography

Geo 226 Hydrology

Geo 415 Regional Geography of Africa

