

Subject: Postdoctoral Scholar - Climate change and ecosystem dynamics in a biodiversity hotspot

The University at Buffalo (UB), State University of New York Department of Geography invites applicants for a postdoctoral scholar to join a vibrant international research collaboration to investigate the role of changing climate in altered ecosystem dynamics (disturbance and/or phenology) in the Cape Floristic Region of South Africa. Recent climate change has led to altered fire frequency and ecosystem recovery (<http://intl.pnas.org/content/112/29/9058.abstract>), but the mechanisms of these changes are not clear. The selected scholar will build spatio-temporal statistical models of ecosystem function integrating decades of plant community dynamics, remotely sensed images (especially MODIS and LANDSAT), and historical weather data. For more information about lab activities, see adamwilson.us. Opportunities for teaching and field work near Cape Town, South Africa are available if desired.

Candidates must have completed their PhD (geography, ecology, statistics, or a related field) within the past 5 years and have a demonstrated record of research from initiation to publication. Candidates must be fluent in R (preferred) or python programming for spatial analysis. The ideal candidate will also have experience fitting Hierarchical Bayesian statistical models, analysis of large (>1TB) datasets, working with high performance computing, and knowledge of C++.

To apply (only e-applications are accepted) please go to <https://www.ubjobs.buffalo.edu/applicants/Central?quickFind=58588> or ubjobs.buffalo.edu and search for posting # 1600011. Please submit a cover letter (2-page maximum) describing your research interests and why you are a strong candidate for this position, your C.V., one recent first-author publication relevant to this position, and contact information for three professional references. Applications will be evaluated beginning March 1, 2016. All application materials must be received by this date for full consideration. If you have any questions or concerns regarding this posting, please contact Adam Wilson, Assistant Professor at adamw@buffalo.edu or 716-645-0502. The University at Buffalo is an affirmative action, equal opportunity employer (AA/EO).

This position is affiliated with the [Geography Department](#) and [Program in Evolution, Ecology, and Behavior](#) at [SUNY at Buffalo \(UB\)](#), a large R1 University. UB has [cutting edge computational resources](#) including an 8,000 CPU, 170 Tflop computer cluster and high-end visualization laboratory. [Buffalo \(population 250k\)](#) is on the shores of Lake Erie about 30 minutes from Niagara Falls and 2 hours from Toronto.