

Biographical Sketch - Paul M. Rich (4 June 2009)

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Experience

- 2006–2007 **Senior Scientist, Vice President**, Creekside Center for Earth Observation: ecology, conservation biology, environmental modeling, climate change, geographical information systems (GIS). Currently on medical leave.
- 2001–2006 **GIS Team Leader/Research Scientist**, Los Alamos National Laboratory, GISLab, Earth and Environmental Science Division
- 1991–2001 **Associate Professor** (1996–2001, **tenured**), Assistant Professor (1991–1996), University of Kansas (KU)
- 1990–91 NSF Postdoc, Univ of California at Davis and Forest Research Inst, New Zealand.
- 1988–90 Postdoctoral Fellow, Stanford University (with H.A. Mooney)
- 1986–88 Postdoctoral Fellow, Los Alamos National Laboratory (with F.J. Barnes)

Education

- 1979–85 **Harvard University, MA** in Biology 1981, **PhD** in Biology 1985
- 1974–79 **University of California at Santa Cruz (UCSC)**, **BA** in Biology and Environmental Studies (double major) 1979, **highest honors**

Selected Publications (of >80)

- Rich, P.M.**, D.D. Breshears, and A.B. White. 2008. Phenology of mixed woody-herbaceous ecosystems following extreme events: net changes from differential responses. Special Section on Phenology. *Ecology* 89: 342-352.
- Goodchild, M.F., P. Fu, and **P.M. Rich**. 2007. Geographic information sharing: the case of the Geospatial One-Stop portal. *Annals of Association of American Geographers* 97: 250-266.
- Rich, P.M.**, J.S. Bollinger, B. Bhaduri, and D.R. Bleakly. 2007. Perspective on Department of Energy geospatial science: past, present, and future. *Geosciences* 4: 29-58.
- Breshears, D.D., N.S. Cobb, **P.M. Rich**, K.P. Price, C.D. Allen, et. al. 2005. Regional vegetation die-off in response to global-change type drought. *Proceedings of the National Academy of Sciences* 102:15144-48.
- Wang, J., **P.M. Rich**, K.P. Price and W.D. Kettle. 2005. Relations between NDVI, grassland production, and crop yield. *Geocarto International* 20:1-7.
- Fu, P., and **P.M. Rich**. 2002. A geometric solar radiation model with applications in agriculture and forestry. *Computers and Electronics in Agriculture* 37:25-35.
- Rich, P.M.** 1990. Characterizing plant canopies with hemispherical photography. *Remote Sensing Reviews* 5:13-29.

Selected Professional Skills

- **Ecology and Conservation Biology:** vegetation analysis, ecophysiology, population biology
- **Environmental Modeling:** solar radiation, topoclimate, eco-hydrology, climate change
- **GIS and Remote Sensing:** spatial analysis, modeling and information management
- **Software Development:** design, advanced algorithms, programming, project coordination
- **Education and Outreach:** science curriculum, web-based resources