

John B. Vogler

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EDUCATION

M.A. Geography, University of North Carolina at Chapel Hill, 1998.
Thesis: An Analysis of Vegetation-Environment Relationships among Vegetation Communities of Anthropogenically Disturbed Sites, Glacier National Park, Montana.
Areas of emphasis: Biogeography, geographic information science and technologies, Population-environment interactions

B.A. Geography, University of North Carolina at Greensboro, 1994 – Earth Sciences

Continuing Education includes ESRI's Introduction to ArcGIS I, Introduction to ArcGIS II, Working with ArcGIS Spatial Analyst, Advanced Analysis with ArcGIS: Models, Scripts & Geoprocessing, Introduction to Geoprocessing Scripts using Python, and Introduction to Programming ArcObjects using VBA courses.

PROFESSIONAL EXPERIENCE

Research Associate. Center for Applied Geographic Information Science, University of North Carolina Charlotte. June 2009 – present.

Geospatial Information Technologist. Pacific Emergency Management, Preparedness, and Response Information Network and Training Services (Pacific EMPRINTS), University of Hawai'i at Manoa. January 2008 – March 2009.

Geographic Information Systems and Education Consultant. Pacific Emergency Management, Preparedness, and Response Information Network and Training Services (Pacific EMPRINTS), University of Hawai'i at Manoa. January 2006 – January 2008.

Spatial Information Technology Specialist. Research Program on Environmental Change, Vulnerability and Governance, East-West Center, Honolulu, Hawai'i. October 2001 – January 2008.

Senior Spatial Analyst and Geographic Information Science Training Coordinator. Carolina Population Center, University of North Carolina at Chapel Hill. July 2000 – September 2001.

Spatial Analyst and Research Associate. Carolina Population Center, University of North Carolina at Chapel Hill. August 1997 – July 2000.

Research Assistant. Carolina Population Center, University of North Carolina at Chapel Hill. June 1996 – August 1997.

Research Assistant. Landscape Characterization and Spatial Analysis Lab. Department of Geography, University of North Carolina at Chapel Hill. August 1994 – May 1996.

**TEACHING
EXPERIENCE**

ESRI Authorized Instructor. ESRI, Inc. Contract No. 2004A552. Current authorization period 04 Feb 2009 – 03 Feb 2010 for courses *Introduction to ArcGIS I* and *Working with ArcGIS Spatial Analyst*.

Introduction to Geographic Information Systems for Anthropologists (ANTH 477). Course Designer & Instructor. Department of Anthropology, University of Hawai'i at Manoa. Honolulu, Hawai'i. Summer 2008.

Geographic Information Technologies for Emergency Preparedness and Response. Workshop co-designer/co-instructor and online GIS technologies course developer. Pacific EMPRINTS, University of Hawai'i at Manoa. Multiple 4-day workshops taught and online courses developed from 9/1/05 – Present. All courses designed specifically for healthcare and public health professionals, first responders, and disaster managers.

Geographic Information Science & Technologies (GIScT) for Emergency Preparedness and Response. Instructor. Third Annual Hawai'i Bioterrorism Preparedness Conference, 16-17 Feb 2006, Honolulu, HI, and sponsored by Hawai'i Dept. of Health.

Geographic Information Science & Technology for Public Health & Healthcare Systems. Instructor. Koko'okolu Pediatrics Research Seminar Series held at Kapiolani Medical Center, Honolulu, HI, 25 January 2006.

Public Health Applications of GIS, GPS and Spatial Analysis. Workshop designer & instructor. Hawai'i DOH, the CDC, and College of Social Sciences, University of Hawai'i at Manoa. Workshops held May 17-21, July 12-16, and August 2-6, 2004.

Graduate Seminar in Remote Sensing (GEOG 762). Lab instructor. Department of Geography, University of Hawai'i at Manoa. Honolulu, Hawai'i. Spring 2003.

Spatial Analysis in Research: Applications to Agricultural, Environmental and Household Economic Research. Co-instructor. Hanoi Agricultural University #1, Hanoi, Vietnam. June 5 – June 27, 2002.

Remote Sensing & GIS Workshop. Co-instructor. East-West Center, Honolulu, Hawai'i. September 4 – November 24, 2001.

Global Positioning System. Lecturer and field instructor. Institute for Population and Social Research, Mahidol University, Thailand. July, 1999.

Introduction to Geographic Information Systems and Global Positioning System. Lecturer and field instructor. Institute for Research in Social Science short course. University of North Carolina at Chapel Hill. June, 1999.

An Introduction to Using Geographic Information Systems (GIS) in Demographic Research. Lecturer and field instructor. Population Association of America Conference workshop. New York City. March, 1999.

Introduction to the Global Positioning System. Lecturer. MEASURE Summer Institute on Monitoring and Evaluation of Population, Health, and Nutrition Programs

workshop. Carolina Population Center, University of North Carolina at Chapel Hill. July, 1998.

Geographic Information Systems (GIS): Applications to Demographic Research. Instructor. Population Association of America Conference workshop. Chicago, Illinois. March, 1998.

REFEREED PUBLICATIONS

Guardiola-Claramonte, M., Troch, P.A., Ziegler, A.D., Giambelluca, T.W., Vogler, J.B., and Nullet, M.A. (in review). Hydrologic effects of the expansion of rubber (*Hevea brasiliensis*) in a tropical catchment. Submitted to *Ecohydrology*.

Fox, J., Vogler, J.B., Ziegler, A.D., and Giambelluca, T.W. (in review). Simulating land-cover change in montane mainland Southeast Asia. Submitted to *Ecology & Society*.

Fox, J., Vogler, J.B., and Poffenberger, M. (in review). Understanding changes in land and forest resource management systems: Ratanakiri, Cambodia. Submitted to *Southeast Asian Studies*.

Ziegler, A.D., Giambelluca, T.W., Nullet, M.A., Sutherland, R.A., Vogler, J.B., and Tantasarin, C. (forthcoming). Throughfall in an evergreen-dominated forest stand in northern Thailand: comparison of mobile and stationary methods. *Agriculture and Forest Meteorology*.

Cuo, L., Vogler, J., and Fox, J. (forthcoming). Topographic normalization for improving vegetation classification in a mountainous watershed in Northern Thailand. *International Journal of Remote Sensing*.

Guardiola-Claramonte, M., Troch, P.A., Ziegler, A.D., Giambelluca, T.W., Vogler, J.B., and Nullet, M.A. (2008). Local hydrologic effects of introducing non-native vegetation in a tropical catchment. *Ecohydrology*, 1(1): 13-22.

Ziegler, A.D., Giambelluca, T.W., Plondke, D., Leisz, S., Tran, L.T., Fox, J., Nullet, M.A., Vogler, J.B., Truong, D.M., and Vien, T.D. (2007). Hydrological consequences of landscape fragmentation in northern Vietnam: buffering of Hortonian overland flow. *Journal of Hydrology*, 337: 52-67.

Sidele, R.C., Ziegler, A.D., and Vogler, J.B. (2007). Contemporary changes in open water surface area of Lake Inle, Myanmar. *Sustainability Science*, 2(1): 55-65.

McNamara, J.P., Ziegler, A.D., Wood, S.H., and Vogler, J.B. (2006). Channel head locations with respect to geomorphologic thresholds derived from a digital elevation model: A case study in northern Thailand. *Forest Ecology and Management*, 224: 147-156.

Fox, J. and Vogler, J.B. (2005). Land-use and land-cover change in montane mainland Southeast Asia. *Environmental Management*, 36(3): 394-403.

Xu, J., Fox, J., Zhang, P., Fu, Y., Yang, L., Qian, J., Leisz, S. and Vogler, J.B. (2005). Land-use and land-cover change and farmer vulnerability in Xishuangbanna Prefecture in southwestern China. *Environmental Management*, 36(3): 404-413.

Rindfuss, R.R., Prasartkul, P., Walsh, S.J., Entwisle, B., Sawangdee, Y., and Vogler, J.B. (2003). Household-Parcel Linkages in Nang Rong, Thailand: Challenges of Large Samples. In: *People and the Environment: Approaches for Linking Household and Community Surveys to Remote Sensing and GIS*, (J. Fox, R.R. Rindfuss, S.J. Walsh, V. Mishra, eds), Kluwer Academic Publishers: Norwell, MA.

Meentemeyer, R.K., Vogler, J.B., and Butler, D.R. (1998) The geomorphic influences of burrowing beavers on stream banks, Bolin Creek, North Carolina. *Zeitschrift fur Geomorphologie*, 42(4): 453-468.

Vogler, J.B., and Butler, D.R. (1996) Pedestrian- and bicycle-induced path erosion on an American university campus. *Physical Geography*, 17(5): 485-494.

PUBLICATIONS in PREPARATION

Evans, T.P., Phanvilay, K., Fox, J., and Vogler, J.B. (in preparation). An agent-based model of agricultural innovation and household-level inequality: The transition from swidden agriculture to rubber plantations in Northern Laos. To be submitted to *Journal of Environmental Management*.

Sen, O., Fox, J., Vogler, J.B., Giambelluca, T., and Ziegler, A.D. (in preparation). Climatic effects of projected anthropogenic changes in montane mainland southeast Asia. Part I: Land cover land use change. To be submitted to *Global Environmental Change*.

Ziegler, A.D., Giambelluca, T.W., Sidle, R.C., Sutherland, R.A., Turkelboom, F., Wood, S.H., Guardiola-Claramonte, M., Fox, J.M., Vogler, J.B., and Sen, O.L. (in preparation) Hydrogeomorphological consequences of the demise in swidden agriculture in Montane Mainland Southeast Asia. To be submitted to *Proceedings of the National Academy of Sciences*.

BOOKS

Spencer, J., Frizzelle, B.G., Page, P.H., and Vogler, J.B. (2003). *Global Positioning System: A Field Guide for the Social Sciences*. Blackwell: Oxford, 232 p.

TECHNICAL REPORTS

Fox, J., McMahon, D., Poffenberger, M., and Vogler, J.B. (2008) *Land for My Grandchildren: Land Use and Tenure Change in Ratanakiri: 1989-2007*. Community Forestry International, Cambodia and East West Center, Honolulu, HI.

Sekson, Y., Kunurat, P., Wester, L., and Vogler, J.B. (2004). *Dependency of humans on the forest and its impact on a mountain ecosystem in Amphoe Khon San, Chaiyaphum Province, Thailand*. Report to Royal Thai Forestry Department.

EXTERNAL FUNDING

The expansion of rubber and its implications for water and carbon dynamics in Montane Mainland Southeast Asia. US\$950,000 received for period 1/1/08 – 12/30/2010 in response to NASA research announcement NNH07ZDA001N-LCLUC. Co-PIs, Co-Is, & Contributors include Jefferson Fox, John Vogler, Tom Giambelluca, Alan Ziegler, and Qi Chen.

Pacific Emergency Management, Preparedness, and Response Information Network and Training Services (Pacific EMPRINTS). US\$4.1million received over three years from 9/1/05 – 8/31/08 from US Department of Health and Human Services, Office of the Assistant Secretary for Preparedness and Response (ASPR) Program on BioTerrorism Training and Curriculum Development. Co-PIs & Contributors include Ann Sakaguchi (Anthropology - University of Hawai`i College of Social Sciences), John B. Vogler (East-West Center, Research Program on Environmental Change, Vulnerability, and Governance), and Ed Kalinowski (Kapiolani Community College, Emergency Medical Services Dept.). Grant No. T01HP6427-0100

The role of land-cover change in Montane Mainland Southeast Asia in altering regional hydrological processes under a changing climate. US\$900,000 received for period 10/1/04 – 03/31/08 in response to NASA research announcement NRA-03-OES-03. Co-PIs, Co-Is, & Contributors include Jefferson Fox, John Vogler, Tom Giambelluca, Alan Ziegler, Michael Nullet, Omer Sen, Yuqing Wang, Gerald Meehl, and Bart Nijssen. Grant No. IDS/03-0365-0079.

TECHNICAL SKILLS

Geographic Information Systems: ArcGIS – ArcInfo 9.3 (including ModelBuilder and Spatial, Network, 3D, and Tracking Analysts), ArcInfo Workstation, ArcPAD
Global Positioning System: Trimble, Garmin, GlobalSat
Image Processing: ENVI, ERDAS Imagine, Leica Photogrammetry Suite
Land Change Modeling: CLUE-s
Statistics: SPSS, S-Plus, FragStats
Languages: Arc Macro Language, Interactive Data Language (IDL), HTML
Operating Systems: MS Windows, MAC OS

HONORS & AWARDS

Special Achievement in GIS Award – ESRI International GIS User Conference, June 2007
Phi Beta Kappa – Inducted Fall 1993, University of NC at Greensboro
Golden Chain Honor Society – Inducted Fall 1993, University of NC at Greensboro
University Marshal – Fall 1993, University of North Carolina at Greensboro
Gamma Theta Upsilon – International Geographical Honor Society, inducted Fall 1992

PROFESSIONAL AFFILIATIONS

Phi Beta Kappa Society
Hawai`i Geographic Information Coordinating Council