

BRIAN FULFROST
ASSOCIATE PRINCIPAL

Professional Experience

Design, Community and Environment, Berkeley, California. Associate Principal. 2008 through present. Responsible for maintaining and supporting DC&E's GIS services in support of planning, landscape architecture and design projects. This includes data acquisition, transformation and conversion, database development, basemap creation, cartographic quality visualization, and GIS-based spatially-explicit modeling and analyses.

University of California, Santa Cruz, Department of Environmental Studies, Santa Cruz, California. GIS Coordinator/Lecturer. 2001 to 2008. Major duties included administration of GIS teaching and research labs, development of project-specific GIS needs assessments, teaching and support for students engaged in GIS-related research, collaborative work with faculty and overall coordination of GIS activities on campus. Areas of application included biodiversity conservation, vegetation and invasive species mapping, reserve design, habitat suitability modeling, spatially-explicit predictive modeling, web-based GIS (ArcIMS), and desktop GIS tools development (Visual Basic).

Montgomery Watson Harza (MWH), Walnut Creek, California. Senior Environmental Scientist. 1999 to 2001. Provided GIS services to internal and external clients for hydraulic and hydrologic modeling, analysis and visualization. Performed a wide variety of GIS-related tasks including ArcView (Avenue) customization (mostly intranet/internet related); groundwater, surface water and contaminant plume model data preparation (TIN/GRID/AV 3-D analyst/AV spatial analyst); geometry and topology maintenance; map production; database integration (ORACLE/MS Access); needs assessments and design/work plans.

Education

Master of Science, Cultural Anthropology, University of Arizona (cum laude)

Bachelor of Arts, Anthropology, University of California, Irvine (cum laude)

Publications

Integrating Field Surveys and High Resolution Remote Sensing Data for a Baseline Ecological Assessment of Ailinginae Atoll, Republic of the Marshall Islands by Daria Siciliano, Brian Fulfrost, Karen Joyce, Jim Maragos and Karen Koltes. *Unpublished Manuscript*.

The Density of Retail Food Outlets in the Central Coast Region of California: Associations with Income and Latino Ethnic Composition by Brian Fulfrost and Phil Howard. *Journal of Hunger and Environmental Nutrition*, Vol. 2(4) 2007.

Regional Patterns of Recruitment Success and Failure in Two Endemic California Oaks by Erika Zavaleta, Kris Hulvey and Brian Fulfrost. *Diversity and Distributions*, 13, 735–745 2007.

Presentations

What's the Goal? Using GIS to Evaluate the Advantages and Disadvantages of Various Weed Mapping Methods. 9th Annual War on Weeds Conference, CSUMB, Monterey, November 16th, 2007.

Ichneumonid Diversity in California's Agricultural Landscape Mosaics: What Supports the Wasps? Poster presented at the Ecological Society of America's Annual Meeting, San Francisco, California, December 2007.

Teaching

UCSC, Department of Environmental Studies.

Senior Lecturer. 2001 to 2008. Taught lecture and labs for course entitled "GIS and Environmental Applications" (ENVS 115A & ENVS 115L). Also provided academic guidance for internships, independent studies, and undergraduate student theses and served on Graduate Committees.

Guest Lecturer in Field Methods. 2002 to 2008. Gave yearly lecture on "The Use of GPS and GIS in Ecological Field Methods" for undergraduate introductory course in field methods (ENVS 104A).

Guest Lecturer in Conservation Biology. 2002 to 2008. Gave yearly lecture on “Use of GIS in Conservation Biology” for graduate course in Conservation Biology (ENVS 220N).

Guest Lecturer in Advanced Methods. 2002 to 2008. Gave yearly lecture on “Using GIS and Spatial Statistics” for graduate methods course in Environmental Studies (ENVS 201N).

Professional Affiliations

Voting Member, GIS Council, State of California.

Chair, Education sub-committee, Central Coast Joint Data Committee (2005-2007).

Co-Chair, Central Coast Joint Data Committee (2003-2005).

GIS Advisor, Big Sur Land Trust.

Technical Advisor, Center for Integrated Marine Technologies.

Scientific Advisory Board Member, San Francisco Bay Bird Observatory.

Advisory Committee Member, UCSC Arboretum.

Advisor, California Department of Fish and Game and California Native Plant Society.

Member, Association of American Geographers.

Member, Society for Conservation Biology.

Member, California Native Plant Society.

Reviewer, International Journal of Remote Sensing.

Reviewer, Environment, Development and Sustainability.