

STEVEN J. STEINBERG, Ph.D., GISP #59102

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Education

Ph.D. University of Minnesota, 1999. (Forestry) Dissertation: "Adoption-Diffusion of Internet-Based Information Systems in a Natural Resource Management Agency: An Early Adopter-Based Technology Transfer Model."
M.S. University of Michigan, 1994. (Natural Resources Policy & Management) Masters Project: "Leelanau County Inland Lakes Project: A Study of Development and Water Quality within the Little Traverse and Lime Lake Watersheds."
Graduate Certificate, University of Michigan, 1994. (Remote Sensing)
B.S. Kent State University, 1992. (Natural Resources, minor: Sociology)

Professional Certification

Geographic Information Systems Professional, 2008 (GISP #59102): Geographic Certification Institute, Park Ridge, IL.
Current certification valid through March 25, 2013.

Professional Experience

2009-Present: Professor, Geospatial Sciences, Humboldt State University, Arcata, CA.
2006-Present: Director, Institute for Spatial Analysis, Humboldt State University, Arcata, CA.
2005-Present: Co-Director, Klamath Watershed Institute, Humboldt State University, Arcata, CA.
2008: Fulbright Scholar, Senior Scholar International Master's Degree Programme in Geoinformatics (GIMP). University of Helsinki, Finland.
2005: Fulbright Scholar, Distinguished Chair in Airborne Remote Sensing, Simon Fraser University, Canada.
2004-2009: Associate Professor, Geospatial Sciences, Humboldt State University, Arcata, CA.
1998-2004: Assistant Professor, Geospatial Sciences, Humboldt State University, Arcata, CA.
1998: Lecturer, College of Arts and Sciences: Honors Division, Univ. of Minnesota, Minneapolis, MN.
1996-1997: Lecturer: College of Natural Resources, Univ. of Minnesota, St. Paul, MN.

Publications

Books and Book Chapters:

Steinberg, S.J. and S.L. Steinberg, Geospatial Analysis Technology and Social Science Research, *in: Handbook of Emergent Technologies*, Sharlene Hesse-Biber, Editor, Oxford University Press, 2010. *In Press*.
Steinberg, S.L. and **S.J. Steinberg**, Global Women Superheroes: Place, Space and Action, *in: Gender and Power in Global Context*, Samir Dasgupta, Editor. SAGE Publications, 2010. *In Press*.
Steinberg, S.L. and **S.J. Steinberg**, A Sociospatial Approach to Globalization: Mapping Ecologies of Inequality, *in: Understanding the Global Environment*, pp 99-117. Samir Dasgupta, Editor. Pearson Longman, Delhi, India, 2009. ISBN: 9788131717028.
Steinberg, S.J. and S.L. Steinberg, Geographic Information Systems for the Social Sciences: Investigating Space and Place, SAGE Publications, Thousand Oaks, California, 2006. ISBN: 0761928723. 2006.

Papers:

Degagne, R.S., T.W. Henkel, S.J. Steinberg and L.Fox, Identifying *Dicymbe corymbosa* Monodominant Forests in Guyana Using Satellite Imagery, *Biotropica*, Vol. 41, No. 1, January 2009 pp. 7-15.
Judd, C., **S.J. Steinberg**, F.A. Shaughnessy, and G.B. Crawford, Mapping salt marsh vegetation using aerial hyperspectral imagery and linear unmixing in Humboldt Bay, California. *Wetlands*, Vol. 27, No. 4, December 2007, pp. 1144-1152.
Lumbert, J., GA Amoussou, and **S.J. Steinberg**, Community-Based Disaster Response Design Using an Open Source GIS. *In: American Society for Photogrammetry and Remote Sensing, Annual Proceedings, 2007*.
Amoussou, GA., E. Cashman, and **S.J. Steinberg**, Ways to Learn and Teach Creativity and Design in Computing Science", 1st ACM Science of Design International Symposium Proceedings, 2007
Amoussou, GA., E. Cashman and **S.J. Steinberg**, Building an Interdisciplinary Community to Learn and Teach Creativity and Design", 2nd International Conference on Design Science Research in Information Systems and Technology, 2007.
C. Judd and **S.J. Steinberg**, Mapping Submerged Macrophytes: Using Multi-Range Spectral Feature Fitting To Map Submerged Eelgrass In A Turbid Estuary. *In: American Society for Photogrammetry and Remote Sensing, Annual Proceedings, 2007*.
O'Neal, C.B., J.D. Stuart, **S.J. Steinberg**, and L.Fox III, Geographic analysis of natural fire rotation in the California redwood forest during the suppression era, *Fire Ecology*, Vol. 2, No. 1, pp 73-99, 2006.

Presentations:

Refereed Conferences

Royer, C.F., A. P. Stubblefield, **S.J. Steinberg**, T. Uyeki, and S. Eliason, Building a Foundation for Coordinated Water Quality Monitoring in the Klamath Basin, 2009 American Water Resources Association (AWRA) Annual Water Resources Conference, November 9-12, 2009. Seattle, WA. *Presentation*.

- J.L. Deshais, L. Arguello, J.D. Stuart and **S.J. Steinberg**, Predicting Sudden Oak Death in Redwood National And State Parks: Ecological Niche Modeling of Key Transmission Host Species Using Maximum Entropy, Sudden Oak Death Symposium IV, June 15-18, 2009, Santa Cruz, CA. *Poster Presentation*.
- Keeble, S.M., S.L. Steinberg and **S.J. Steinberg**, Rural Latino Entrepreneur Network Analysis, Pacific Sociological Association Conference, San Diego, CA, April 8-11, 2009, *Paper Presentation*.
- Degagne, R., **S.J. Steinberg**, and T. Henkel, Identifying *Dicymbe corymbosa* Tropical Monodominant Forests in Guyana Using Landsat Satellite Imagery. ASPRS 75th Annual Conference, Baltimore MD, March 9-13, 2009. *Poster Presentation*.
- Steinberg, S.L., **S.J. Steinberg**, J.L. Kauffman and J.R. Ekert, Public Participation GIS Research and Agricultural Farmworkers in California. Twenty-eighth Annual ESRI International User Conference, San Diego, CA, August 4-8, 2008. *Paper Presentation*.
- Steinberg, S.J.**, R. Degagne, and M.O. Gough, Broadband Demand Aggregation: Planning Broadband in Rural Northern California. Twenty-eighth Annual ESRI International User Conference, San Diego, CA, August 4-8, 2008. *Paper Presentation*.
- Steinberg, S.J.**, S.L. Steinberg, J.L. Kauffman, N.S. Yandell, J.R. Ekert, and M.J. Strong, Combining aerial imagery with environmental data and community-based knowledge to examine agricultural pesticide exposure. ASPRS Annual Conference, Portland OR, April 29-May 2, 2008. *Poster Presentation*.
- Amoussou, GA. and **S.J. Steinberg**, A Model to Integrate the Science of Design into Undergraduate Education, Consortium for Computing Sciences in Colleges, Southwestern Regional Conference, April 18 & 19, 2008. *Workshop Presentation*.
- Gilkerson, W.A., **S.J. Steinberg**, F. J. Shaughnessy and G.B. Crawford, A spatial model of potential eelgrass (*Zostera marina*) habitat in Humboldt Bay, CA. 22nd NorthWest Algal Symposium, April 4-6, 2008, Charleston, Oregon. *Paper Presentation*.

Invited Talks

- S.J. Steinberg** and S.L. Steinberg, *Mapping Pesticide Exposure with Community-Based Knowledge: Increasing Community Power with Mapping*. Presented at the 2007 Agricultural Worker Health Initiative Conference: Cultivando Cambio Para el Futuro, Sacramento, CA, August 22-24, 2007.
- Steinberg, S.J.**, *McKinleyville Community Planning Area Residential Development Capacity Analysis*. Presented at the Humboldt County League of Women Voters, Eureka CA, March 17, 2007.

Research Grants/Projects

- 2009: USDA Forest Service, Pacific Southwest Region State and Private Forestry, Forest Health Protection, "Phytophthora ramorum disease potential in Redwood National and State Parks, California: a dynamic process model based on ecological niches of key transmission species." (Co-Investigator with L. Arguello and J.D. Stuart) \$54,272; duration 2 years.
- 2009: U.S. Department of Agriculture, Cooperative State Research, Education and Extension Service, "Conservation of surface and ground water in a Western watershed experiencing rapid loss of irrigated agricultural land to development" (Co-Investigator with R. Van Kirk, B. Finney, Y. Everett and M. Baker) \$620,000; duration 3 years.
- 2008: Environmental Protection Agency, "Issues in Tribal Environmental Research and Health Promotion: Novel Approaches for Assessing and Managing Cumulative Risks and Impacts of Global Climate Change" (Co-Investigator with S.L. Steinberg and K. Sloan, Yurok Tribe Environmental Program) \$974,792; duration 4 years.
- 2008: Ford Foundation, "A Place-Based Integrated Economic Development Model: Environment, Action and Assets" (Co-Investigator with S.L. Steinberg) \$150,000; duration 1 year.
- 2008: Resources Legacy Foundation, "HSU: North Coast Marine Life Protected Areas" (Co-Investigator with L.S. Quackenbush) \$49,622; duration 6 months.
- 2007: California Emerging Technology Fund and the Humboldt Area Foundation, "California Broadband Demand Aggregation Pilot Project" (California Center for Rural Policy Project) \$606,000; duration 1 year.
- 2007: State Water Resources Control Board, "Coordinating Monitoring and Assessment in the Klamath River Basin" \$275,000; duration 2 years.
- 2007: The California Endowment, "Agricultural Worker Health Initiative, GIS Mapping in Monterey and Tulare Counties, CA" (Co-Investigator with S.L. Steinberg) \$70,000; duration 1 year.

Professional Service

- 2008-Present: President, ASPRS Northern California Chapter.
- 2008-Present: California Water Quality Monitoring Council: Appointed by Secretary Adams (California EPA) and Secretary Chrisman, (Resources Agency)
- 2007-Present: California Department of Water Resources, Salton Sea, Socioeconomic Focus Technical Group, Member.

Graduate Students Advised

Thesis Advisor (11): R.S. Degagne (2007); B.R. Edwards (2005); W.A. Gilkerson (2008); M.D. Hass (2000); C. Judd (2006); J.L. Kauffman (2007); T.A. Kirk (2007); I.P. McGovern (2008) L.M. Miller (2006); M.T. Perry (2005); D.R. Ritts (2003).