

STEVEN J. STEINBERG, PhD, GISP

Principal Scientist • Southern California Coastal Water Research Project
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AREAS OF EXPERTISE:

Dr. Steinberg is a geospatial scientist specializing in the design of spatially-based information management, integration, analysis and visualization systems. He has extensive experience with geospatial analysis technologies including geographic information systems analysis and modeling and remotely sensed image analysis.

EDUCATION:

- Ph.D., Forestry (Geospatial Sciences), University of Minnesota, 1999
- M.S., Natural Resources Policy and Management, University of Michigan, 1994
- Graduate Certificate (Remote Sensing), University of Michigan, 1994
- B.S., Natural Resources, Kent State University, 1992

PROFESSIONAL EXPERIENCE:

- Principal Scientist, Southern California Coastal Water Research Project. Costa Mesa, CA. 2011-Present
- CEDEN Program Manager, Southern California Coastal Water Research Project. Costa Mesa, CA. 2011-2014
- Professor, Humboldt State University. Arcata, CA. 1998-2011
- Director, Institute for Spatial Analysis, Humboldt State University. Arcata, CA. 2006-2011
- Director, Klamath Watershed Institute, Humboldt State University. Arcata, CA. 2005-2011
- Research Associate, California Center for Rural Policy. Arcata, CA. 2006-2011

PROFESSIONAL APPOINTMENTS:

- Board Member, Orange County Chapter, Association for Computing Machinery (2015-Present)
- Co-chair, West Coast Governors Alliance, Data Action Coordination Team Member (2011-Present)
- Co-Chair (2011-2014) & member (2014-Present), California Water Quality Monitoring Council Data Management Workgroup
- California Coastal and Marine Geospatial Working Group Member (2011-2014)
- President, ASPRS Southwest Region (2013-2014)
- EPA Exchange Network: Communications Integrated Project Team Member (2012-2014)
- California Water Quality Monitoring Council (2008-2011)
- California Dept. of Water Resources/USGS, Salton Sea, Socioeconomic Focus Technical Group (2007-2013)

HONORS AND AWARDS:

- Advancement of Collaboration Award, California Geographic Information Society (2015)
- Ocean Leadership Award, West Coast Governors Alliance on Ocean Health (2014)
- Fulbright Scholar, Senior Scholar, International Master's Degree Programme in Geoinformatics (GIMP). University of Helsinki, Finland (2008)
- Fulbright Scholar, Distinguished Chair in Airborne Remote Sensing, Simon Fraser University, Burnaby, British Columbia, Canada (2005)

PROFESSIONAL SOCIETIES AND CERTIFICATIONS:

- Certified Geographic Information Systems Professional (GISP)
- American Society for Photogrammetry and Remote Sensing (ASPRS)
- Association for Computing Machinery (ACM)
- Urban and Regional Information Systems Association (URISA)
- Fulbright Association

SELECTED PUBLICATIONS:

- Steinberg, S.L. and S.J. Steinberg. 2015. GIS Research Methods: Incorporating Spatial Perspectives. Esri Press. Redlands, CA.
- Crain B.J., A.M. Sánchez-Cuervo, J.W. White and S.J. Steinberg. 2015. Conservation Ecology of Rare Plants Within Complex Local Habitat Networks. *Oryx*, 49, 04:696-703.
- Crain, B.J., J.W. White, and S.J. Steinberg. 2011. Geographic discrepancies between global and local rarity richness patterns and the implications for conservation. *Biodiversity and Conservation* 20:3489-3500.

- Steinberg, S.J. and S.L. Steinberg. 2011. Geospatial analysis technology and social science research. pp. 563-591 in: S. Hesse-Biber (ed.), Handbook of Emergent Technologies. Oxford University Press. New York, NY.
- Kauffman-Axelrod, J.L. and S.J. Steinberg. 2010. Development and application of an automated GIS based evaluation for prioritization of wetland restoration opportunities. Wetlands 30:437-448.
- Steinberg, S.J. and S.L. Steinberg. 2006. Geographic Information Systems for the Social Sciences: Investigating Space and Place SAGE Publications. Thousand Oaks, CA.

SELECTED TECHNICAL REPORTS:

- Steinberg, S.J., San Diego Integrated Regional Water Management Data Management System Basic Design Recommendations. 2015. SJ Steinberg. Technical Report 878. Southern California Coastal Water Research Project Authority. Costa Mesa, CA.
- Azimi-Gaylon, S., S Fong, P Goodwin, T Hale, G Isaac, A Osti, F Shilling, T Slawecki, S Steinberg, M Tompkins, L Videmsky. Enhancing the Vision for Managing California's Environmental Information. 2015. Technical Report 884. Southern California Coastal Water Research Project Authority. Costa Mesa, CA.
- Case III, H.L., J. Boles, A. Delgado, T. Nguyen, D. Osugi, D.A. Barnum, D. Decker, S. Steinberg, S. Steinberg, C. Keene, K. White, T. Lupo, S. Gen and K.A. Baerenklau. Salton Sea ecosystem monitoring and assessment plan: U.S. Geological Survey Open-File Report 2013-1133.

SELECTED PRESENTATIONS AND CONFERENCE PROCEEDINGS:

- Steinberg, S.J., 2015. Cellscope Aquatic: A high quality cellphone-microscope for field data collection. Invited presentation and workshop. Monterey Bay Aquarium Research Institute (MBARI), Moss Landing, CA, October 28-29.
- Steinberg, S.J. and S.L. Moore. 2015. Turning Data Into Information For Stormwater Decision Makers: A Web-Based Program Management Dashboard. CASQA's 11th Annual Conference, Monterey, CA.
- Steinberg, S.J., 2015. Temporal Visualization to Inform Wetland Restoration in Southern California. CalGIS: 21st Annual California GIS Conference. Sacramento, CA.
- Steinberg, S.J., 2014. The California Environmental Data Exchange Network (CEDEN): A Statewide Water Quality Monitoring System for California. Environmental Data Summit: Enhancing California's Vision for Managing Environmental Information, Davis, CA.
- Steinberg, S.J., L. Cooper, P. Smith, A. Santana, and C. Gruebele. 2014. Implementing Mobile Devices as Field Computers for Environmental Data Acquisition. Annual Meeting of the American Society of Photogrammetry and Remote Sensing, Louisville, KY.
- Steinberg, S.J., R. Schaffner and K. Schiff, 2014. Developing a Water Quality Index for Southern California reef habitats. CalGIS: 20th Annual California GIS Conference. Monterey, CA.
- Steinberg, S.J., A. Santana and M. Hang. 2013. Developing a Remote, Multi-Camera Image Acquisition System for Beach Monitoring. CalGIS: 19th Annual California GIS Conference. Long Beach, CA.
- Steinberg, S.J., W.A. Gilkerson, and F.J. Shaughnessy. 2011. A Geospatial Model of Eelgrass (*Zostera marina*) Habitat Availability in Humboldt Bay, California. Presented at the 34th Applied Geography Conference. Redlands, CA.
- Ramirez, N.D. and S.J. Steinberg. 2010. Modeling Ecotoxicological Stressors using GIS. Poster presented at the ASPRS Annual Conference. San Diego, CA.
- Steinberg, S.J., A.P. Stubblefield, C.F. Royer, T. Uyeki, and S. Eliason. 2010. Developing a collaborative water quality monitoring plan in the Klamath Basin. Paper presented at the 16th Annual California GIS Conference. Huntington Beach, CA.
- Royer, C.F., A.P. Stubblefield, S.J. Steinberg, T. Uyeki, and S. Eliason. 2009. Building a Foundation for Coordinated Water Quality Monitoring in the Klamath Basin. Paper presented at the American Water Resources Association (AWRA) Annual Water Resources Conference. Seattle, WA.
- Gilkerson, W.A., S.J. Steinberg, F.J. Shaughnessy, and G.B. Crawford. 2008. A Spatial Model of Potential Eelgrass (*Zostera marina*) Habitat in Humboldt Bay, CA. Paper presented at the 22nd NorthWest Algal Symposium. Charleston, OR.
- Shaughnessy, F.J., G.B. Crawford, S.J. Steinberg, J. Montoya, and M.O. Gough. 2008. Humboldt CICORE's part of the National Ocean Observation effort. Poster presented at the 22nd NorthWest Algal Symposium. Charleston, OR.
- Edwards, B.R., S.J. Steinberg, and K.A. Reeves. 2008. A Century of Riparian Change in the Lower Mokelumne River. Poster presented at the 26th Salmonid Restoration Conference. Lodi, CA.