John A. Gallo

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Dr. John Gallo is a geographer and landscape ecologist who works with practitioners and researchers on conservation projects. He also explores scientific frontiers with the purpose of advancing innovative strategies and best practices to attain multiple benefits. Dr. Gallo employs a variety of areas of expertise in an interdisciplinary approach, including:

- design, programming, and application of software for conservation planning, landscape assessment, and habitat connectivity modeling,
- developing advances in spatial decision support systems,
- wildfire mitigation and adaptation analyses and planning,
- climate change adaptation planning,
- applying citizen and community science to engage the public and fill data gaps,
- bringing knowledge graphs and machine learning to conservation applications,
- engaging partners, stakeholders, and decision-makers in all of the above.

SUMMARY OF PRIMARY SKILLS

Conservation Planner, Spatial Analyst and Programmer (Modelbuilder and Python), Science Communicator, Project Manager, Geographer, and Wildlife Biologist.

EDUCATION

2007 – 2009 - Post-Doctoral Research, University of Cape Town/ Nelson Mandela Metropolitan University. South Africa.

2007 - Ph.D. Geography (Human/Environment Relations Emphasis) University of California, Santa Barbara (UCSB). Advisor: Michael Goodchild. Thesis: *Engaged conservation planning and uncertainty mapping as means towards effective implementation and monitoring.*

1995 - Bachelor of Science. Ecology. UCSB.

1995 - Bachelor of Arts. Environmental Studies (Natural Science Emphasis). UCSB.

EMPLOYMENT HISTORY

2013 – Present - Senior Conservation Scientist, Conservation Biology Institute, Corvallis, OR.

2010 – 2013 - Senior Landscape Ecologist, The Wilderness Society, San Francisco, CA.

1997 – 2013 - Principal, John Gallo, Conservation Services, CA.

2007 – 2009 - Post-doctoral Fellow, University of Cape Town; and Nelson Mandela Metropolitan University, Little Karoo, South Africa.

1996 – 2007 - Project Director, then Conservation Scientist, Conception Coast Project, Santa Barbara, CA.

2001 – 2006 - Teaching Assistant, Department of Geography, UCSB.

2002 – 2003 - Research Associate, Department of Geography, UCSB.

1995 – 2002 - Museum Associate (Wildlife Biologist) Cheadle Center for Biodiversity and Ecological Restoration, UCSB.

1993 – 1994 - Wildlife Biologist, U.S. Forest Service, Nez Perce NF, Idaho.

PUBLICATIONS

Gallo, J.A., A.T. Lombard, R.M. Cowling, R. Greene, F.W. Davis. 2023. Meeting Human and Biodiversity Needs for 30 × 30 and beyond with an Iterative Land Allocation Framework and Tool. Land. 12(1), 254; [link]

Gallo, J.A., A.T. Lombard, and R.M. Cowling. 2023. Conservation Planning for Action: End-User Engagement in the Development and Dual-Centric Weighting of a Spatial Decision Support System.. Land. 12(1), 67 [link]

Gallo, John A., Josie C. Lesage, Zachary Canter, Allan Hollander, Rebecca Jordan, Sean Gordon, and Greg Newman. In Prep "Using Community Science and an Environmental Evaluation Modeling System for Habitat Restoration and Wildfire Recovery." [Preprint link]

Keeley, A. T. H., A. K. Fremier, P. A. L. Goertler, P. R. Huber, A. M. Sturrock, S. M. Bashevkin, B. A. Barbaree, J.A. Gallo et al. 2022. "Governing Ecological Connectivity in Cross-Scale Dependent Systems." Bioscience 72 (4): 372–86. [link]

Shapero, Matthew, Katherine Siegel, Justin Brice, John Gallo, and Van Butsic. 2022 "Land Cover Conversion and Land Use Change Combine to Reduce Grazing." Journal of Land Use Science 17 (1). [link]

Gordon, S. N., P. J. Murphy, J. A. Gallo, P. Huber, A. Hollander, A. Edwards, and P. Jankowski. 2021. "People, Projects, Organizations, and Products: Designing a Knowledge Graph to Support Multi-Stakeholder Environmental Planning and Design." ISPRS International Journal of Geo-Information 10 (12): 823. [link]

Nyerges, T.; Gallo, J.A.; Prager, S.D.; Reynolds, K.M.; Murphy, P.J.; Li, W. 2021. Synthesizing Vulnerability, Risk, Resilience, and Sustainability into VRRSability for Improving Geoinformation Decision Support Evaluations. ISPRS Int. J. Geo-Inf. 10, 179. [link]

Gallo, J.A.; Aplet, G.H.; Greene, R.; Thomson, J.L.; Lombard, A.T. A Transparent and Intuitive Modeling Framework and Software for Efficient Land Allocation. Land 2020, 9, 444. [link]

Jarvis, R. M., Borrelle, S. B., Forsdick, N. J., Pérez-Hämmerle, K.-V., Dubois, N. S., Griffin, S. R., Recalde-Salas, A., Buschke, F., Rose, D. C., Archibald, C. L., Gallo, J. A., Mair, L., Kadykalo, A. N., Shanahan, D., & Prohaska, B. K. (2020). Navigating spaces between conservation research and practice: Are we making progress? Ecological Solutions and Evidence, 1(2). [link]

Campellone, R.M., K.M. Chouinard, N.A. Fisichelli, J.A. Gallo, J.R. Lujan, R.J. McCormick, T. Miewald, B.A. Murry, D.J. Pierce, and D.R. Shively. 2018. The iCASS Platform: Nine principles for landscape conservation design. Landscape and Urban Planning, 176, 64-74 [link].

McGreavy, B., M. Chandler, M. Clyde, M. Haklay, H. Ballard, S. Gray, R. Scarpino, R. Hauptfeld, and J. Gallo. 2017. The Power of Place in Citizen Science. Maine Policy Review.

Newman, G., M. Clyde, B. McGreavy, M. Chandler, M. Haklay, H. Ballard, S. Gray, D. Mellor, and J. Gallo. 2017. Leveraging the power of place in citizen science for effective conservation decision making Biological Conservation 208 55-64 [link].

Gallo, J. and M. Goodchild. 2011. Mapping Uncertainty in Conservation Assessment as a Means Toward Improved Conservation Planning and Implementation. Society and Natural Resources 25 (1) 22-36 [link].

Gallo, J., L. Pasquini, B. Reyers, and R. Cowling. 2009 The role of private conservation areas in biodiversity representation and target achievement within the Little Karoo region, South Africa. Biological Conservation 142 (2) 446-454 [link].

Gallo, J. 1996. Quantitative Analysis of the Habitat Requirements for the Bell's Sage Sparrow, Amphispiza belli belli, at Vandenberg Air Force Base, California. Discovery, UCSB Journal of Undergraduate Research. (Single Blind Review Board) Santa Barbara, CA [link]

SELECT PROJECT EXPERIENCE

Developing a Conservation Blueprint with and for the Community. Used participatory action research to gather and share local and expert data, analyses, and knowledge about the landscape, including a consensus-based quantitative mapping of priority areas of multiple-benefits for ecosystem services. Santa Barbara County, CA.

Wildfire Recovery and Community Science. With the help of over 100 community scientist volunteers, we mapped invasive species, erosion, and trail damage. These observations were combined with GIS data and used in a multicriteria decision modeling system, known as the Environmental Evaluation Modeling System (EEMS), to identify areas at risk of erosion, where invasive species are spreading, and areas in need of restoration to inform future projects

Spatial decision support system for mapping wildfire risk reduction treatments. Created EEMS models for this objective, open space risk reduction , and prescribed herbivory priority locations. [website, (click read more), and one of the maps]

Consensus building for a working landscape. Developed and deployed a basic decision support system to help environmental and industry stakeholders come to consensus on the spatial conservation and development priorities in the Kenogami-Ogoki Forest of Ontario, Canada. Emphasis on caribou conservation and timber yield.

Conservation planning SDSS for three types of conservation to address climate change. Developed and deployed a proof-of concept spatial decision support system to allocate a landscape among three types of conservation, and to transparently communicate why any planning unit received its allocation and valuations. (project page, journal article)

Connectivity Software Development. Developed improvements to LinkageMapper software, with collaborators, to also provide inter-corridor prioritization instead of just intra-corridor prioritization. Applied this new software to eight landscapes at last count.

Road Decommissioning Prioritization Software Development (While at The Wilderness Society). Developed RoadRight, with collaborators, a SDSS that combines a large suite of input criteria to help prioritize which road segments of a national forest are best for decommissioning.

Consensus building for conservation actions (While at Nelson Mandela Metropolitan University). Quantified the role of private land stewardship in biodiversity conservation. Created an SDSS for synthesizing ecological needs and anthropocentric constraints to help a partnership between a land-trust and a government agency come to consensus on high conservation priority properties.

Developing a Regional Conservation Guide for the Community (While at Conception Coast Project). Used participatory action research to perform a systematic conservation assessment that also mapped uncertainty. Utilized local expert knowledge and multi-criteria modeling of marginal utility and incorporated inter-

organizational input to create a public reference that mapped and communicated the landscape requirements for maintaining ecological integrity.

SELECT REPORTS, PREPRINTS, AND EDITORIALS

Gallo, J. A., Z. M. Canter, and W. D. Spencer. 2021. A Spatial Decision Support System for Wildfire Risk Reduction in Santa Barbara County, California. Conservation Biology Institute. [DOI link]

Rustigian-Romsos, H.L., J.A. Gallo, W.D. Spencer, and A.D. Syphard. 2021. Modeling the potential for fire ignition and large fire occurrence in Santa Barbara County, California. Conservation Biology Institute. [DOI Link]

Gallo, J. A., J. Strittholt, G. Joseph, H. Rustigian-Romsos, R. Degagne, J. Brice, and A. Prisbrey. 2019. Mapping Habitat Connectivity Priority Areas That Are Climate-Wise and Multi-Scale, for Three Regions of California. Conservation Biology Institute. [DOI link]

Gallo, J.A., E. Butts, T. Miewald, K. Foster. 2019. Comparing and Combining Omniscape and Linkage Mapper Connectivity Analyses in Western Washington. Conservation Biology Institute. [DOI link]

Gallo, J.A. 2019. Software for prioritizing habitat linkages based on climate gradients, climate analogs, or a balanced blend. Conservation Biology Institute. Preprint. [DOI Link]

Spencer, W., J. Brice, D. DiPietro, J. Gallo, M. Reilly, and H. Rusigian-Romsos. 2019. Habitat Connectivity for Fishers and Martens in the Klamath Basin Region of California and Oregon. Conservation Biology Institute [DOI Link]

Gatewood, B., F. Davis, J. Gallo, S. Main, J. McIntre, A. Olsen, G. Parker, D. Pearce, S. Windhager, and C. Work. 2018. Santa Barbara County Conservation Blueprint: Creating a Landscape of Opportunity. Ag Innovations and Conservation Biology Institute. [DOI link]

Gallo, J., R. Greene. 2018 Connectivity Analysis Software for Estimating Linkage Priority. Conservation Biology Institute. [DOI link]

Aplet, G. and J. Gallo. 2012. Applying Climate Adaptation Concepts to the Landscape Scale: Examples from the Sierra and Stanislaus National Forests The Wilderness Society [.pdf]

Gallo, J. 2009. Engaged Conservation Planning and uncertainty mapping: A framework and a method for improving the implementation of conservation plans. VDM Verlag Publishing, Saarbruecken, Germany [view] [request]

Gallo, J. 2007. Engaged Conservation Planning and uncertainty mapping as a means towards effective implementation and monitoring. Doctoral Dissertation. Department of Geography. University of California, Santa Barbara. [open access]

Gallo, J. 2005. Mapping Uncertainty to Ease the Tension between Public Participation GIS and Conservation Planning. In Proceedings of the 4th Annual Public Participation GIS Conference. Urban and Regional Information Systems Association (URISA) July 31 - August 2. Cleveland State University. Cleveland, Ohio

Pyke, C., P. Alagona, N. Goldstein, B. Bierwagen, J. Merrick, H. Rosenberg, and J. Gallo. 1999. A Plan for Outreach: Defining the Scope of Conservation Education. Conservation Biology 13:1238

Gallo, J. 1996. Quantitative Analysis of the Habitat Requirements for the Bell's Sage Sparrow, Amphispiza belli belli, at Vandenberg Air Force Base, California. Discovery, UCSB Journal of Undergraduate Research. (Single Blind Review Board) Santa Barbara, CA [link]

Gallo, J., J. Studarus, G. Helms, and E. Machado. 2005. Regional Conservation Guide Conception Coast Project. Santa Barbara, CA. [link]

Gallo, J., and J. Smart. 2003. Who Wants to Help Build a Stronger Sustainability Movement? Hopedance: Pathways to Sustainable Living *and* Positive Solutions. Issue 36. January-February. [Republished in 2009: link]

Stoecker, M. and Conception Coast Project, 2002. Steelhead Assessment and Recovery Opportunities in Southern Santa Barbara County, California. Conception Coast Project, Santa Barbara, CA [link]

Gallo, J., J. Scheeter, M. Holmgren, and S. Rothstein. 1999. Initiation of a Long term Ecological Monitoring Project: Avian Point Counts and Habitat Assessments in Riparian Communities at Vandenberg Air Force Base, California. University of California, Santa Barbara Museum of Systematics and Ecology, Environmental Report No. 13 [link]

Gallo, J. 1999. Species Account for the Bell's Sage Sparrow In Holmgren, M. and Collins, P. (eds.) Distribution and Habitat associations of Six Special Concern Bird Species at Vandenberg Air Force Base, California. University of California, Santa Barbara, Museum of Systematics and Ecology, Environmental Report No. 7

SELECT CONFERENCE PRESENTATIONS

Gallo, J.A., A.T. Lombard, R.M. Cowling, R. Greene, F.W. Davis. 2023. Meeting Human and Biodiversity Needs for 30 × 30 and beyond: the Earthwise Framework and Tool. American Association of Geographers, Denver, CO. March 23 [video]

Gallo, J.A., R. Jordan, and G. Newman. 2022. Symposium: Integrations Within and Between Citizen Science Efforts and Spatial Decision Support Systems for Conservation. North American Congress of Conservation Biology. Reno, NV. July 20 [video]

Gallo, J.A.. 2022. Using Citizen Science and Environmental Evaluation Modeling System (EEMS) for Spatial Decision Support. North American Congress of Conservation Biology. Reno, NV. July 23 doi.org/10.6084/m9.figshare.21067672 [video]

Gallo, J.A.; G. Aplet, R. Greene, J. Thomson, and A. Lombard. 2021. LandAdvisor: A Transparent and Intuitive Modeling Framework and Software for Efficient Land Allocation. Society for Conservation GIS Conference, July 23. [full video]

Gallo, J.A.; G. Aplet, R. Greene, J. Thomson, and A. Lombard. 2021. LandAdvisor: A Transparent and Intuitive Modeling Framework and Software for Efficient Land Allocation. American Association of Geographers Conference, April 7. [video, slides]

Gallo, J.A.; 2020. Software for prioritizing climate-wise habitat linkages. Society for Conservation GIS. September 1. 10.6084/m9.figshare.23689002 [video, slides, white paper]

Gallo. J. 2020 Mapping terrestrial habitat connectivity priority areas in the Delta. Estuarine Connectivity Symposium. Davis, CA, Feb. 18 [link]

Gallo, J. 2019 Software for prioritizing habitat linkages based on climate gradients, climate analogs, or a balanced blend. International Congress of Conservation Biology, Kuala Lampur, Malaysia, July 25 [video, slides, white paper]

Gallo, J., R. Greene. 2018. Modeling Climate-wise Connectivity and the Relative Conservation Priority among and within Linkages. North American Congress of Conservation Biology, Toronto, Canada. July 18.

Gallo, J., R. Greene, R. DeGagne, H. Rustigian-Rosmos, J. Brice, J. Strittholt, and W. Spencer. 2017. Modeling the relative priority of habitat linkages, including climate considerations. Society for Conservation GIS Conference, July 17 [link].

Gallo, J., 2017 Utilizing web-enabled geographic information systems to leverage the power of place in collaborative conservation science. In Symposium: Designing collaborative science projects and tools for conservation Citizen Science Association Conference. Saint Paul, Minnesota, April 18 [link].

Gallo, J., 2016 Spatial conservation prioritization for multiple actions, with connectivity, and transparency. North American Congress of Conservation Biology, Madison, WI. July 17.

Aplet, G (presenter), P. McKinley, and J. Gallo. 2016 Keynote: Spreading Conservation Risk with a Portfolio of Strategies Natural Areas Association. Sacramento, CA Oct. [video].

Gallo, J., and G. Aplet. 2016 Allocating land to a three zone climate adaptation strategy using a spatial decision support system. American Association of Geographers, San Francisco, CA. April 1. [link] (In: symposium organized by Dr. Gallo: Conservation in the Anthropocene- Balancing Innovation with Caution? [link].

Gallo, J., 2015. Place-based Citizen Science: Linking Together to Leverage the Power of Place. American Association for the Advancement of Science, San Jose, CA. February 15 [link].

Gallo, J., 2014 A land-use decision support prototype for combining a broad suite of ecological models. Ecological Society of America. Sacramento, CA, August 14.

Gallo, J., 2014 Implementation of conservation objectives via living and integrated decision support systems. North American Congress of Conservation Biology. Missoula, Montana, July 16.

Gallo, J., A. Lombard and R. Greene. 2013 Achieving implementation of conservation plans by using a "living" and "engaged" decision support framework International Congress of Conservation Biology. Baltimore, MD, July 24.

Gallo. J., M. Deitz, J. Boggs and K. Menke. 2013. Rightsizing the National Forest Road System: A Road Decommissioning Decision Support Tool Society for Conservation GIS. Monterey, CA, July 17.

Gallo, J., A. Lombard and R. Greene. 2013 (workshop) A "living" decision support framework and system for conservation assessment, planning, and management Society for Conservation GIS. Monterey, CA, July 16.

Gallo, J. 2012 Collaborative Landscape Planning and Management (Poster) Public Participation in Scientific Research Conference, Portland, OR, August.

Gallo, J. 2012 A Landscape Decision Support System and Online Collaborative Laboratory (Collaboratory) North American Congress of Conservation Biology, Oakland, CA ; July 17, 2012.

Gallo, J., R. Greene, M. Van Bakel. and T. Robinson. 2012 Symposium: LandAdvisor and The Landscape Collaborative Society for Conservation GIS. Monterey, CA, July.

Gallo, J. and R. Greene. 2011 A Landscape Decision Support System and Online Collaborative Laboratory (Collaboratory) ESRI User's Conference, San Diego, CA, July 14.

Gallo, J., 2010 A vision, framework, and customizable decision support toolbox for conservation action Society for Conservation GIS. Monterey, CA, July 10.

Gallo, J., A. Lombard, R. Cowling. 2009 A new framework and systematic conservation planning prototype that includes the "working landscape" and can harness Web 2.0 Society for Conservation Biology, Bay Area Chapter Conference, San Francisco, CA.

Gallo, J., A. Lombard, R. Cowling. 2009 The BioVision Decision Support System for Conservation Action Biodiversity Planning Forum, Durban, South Africa, March 12.

Gallo, J., A. Lombard, R. Cowling. 2008 Lorax: A framework for estimating the current conservation value and recommended action for every site in a region. Interfaces Conference, Oudtshoorn, South Africa, August 5.

Gallo, J., L. Pasquini, B. Reyers, and R. Cowling. 2008. The role of private conservation areas in biodiversity representation. Society for Conservation Biology, Chattanooga, Tennessee. July 16.

Gallo, J. 2007. Engaged conservation planning and the landscape knowledge network: Reconnecting society and nature while conserving biodiversity. Society for Conservation Biology. Port Elizabeth, South Africa. June 27.

Gallo, J. 2007. Engaged conservation planning and management reconnecting society and nature while conserving biodiversity. Society for Conservation Biology Conference, Bay Area Chapter, Berkeley, CA January.

Gallo, J. 2006. Honest Mapping: Communicating the Uncertainty Inherent to Conservation Planning as a Means Towards Implementation. Society for Conservation GIS. San Jose, CA. June 27.

Gallo, J. 2006. Reconnecting Society and Nature: Bioregionalism for a New Millennium. Annual meeting the Association of American Geographers. Chicago, IL. March 8.

Gallo, J. 2005. Presenting Conservation Plans: the Role of Imperfection. Association of Pacific Coast Geographers. Phoenix, AZ. October 21.

Gallo, J. 2005. Mapping Uncertainty to Ease the Tension in Public Participation GIS and Conservation Planning. Annual Conference of Public Participation GIS sponsored by URISA. Cleveland, OH. July.

Gallo, J. and M. Goodchild. 2005. Can the mapping of uncertainty ease the tension between PPGIS and Conservation Planning? Annual meeting of the Association of American Geographers. Denver, CO. April.

Gallo, J. and C. Gallipeau. 2003. Modeling landscape Connectivity using a Least-Cost Path Function for Puma (Puma concolor) Dispersal. Agricultural Geography and Biogeography Poster Session. Annual meeting of the Association of American Geographers. New Orleans, LA. March 5.

Gallo, J. 2002. Place-based Conservation Planning. Environmental Sustainability and Policy Session. Annual meeting of the Association of American Geographers. Los Angeles, CA. March 23.

Gallo, J. 2000. Perspectives on Stakeholder Involvement, and a Model Metadata Standard: Summary of the Human-Environment Workgroup. 4th International Conference on Integrating Geographic Information Systems (GIS) and Environmental Modeling. Banff, Alberta. September 8.

SELECT KEYNOTES AND INVITED LECTURES

2023. Gallo, J.A.. Prioritizing Postfire Restoration Opportunities by Leveraging the Environmental Evaluation Modeling System and Community Science. California Department of Fish and Wildlife Conservation Lecture Series. April 18 [video]

2021. Gallo, J.A., and J. Lesage. Community Science and Stewardship: The Big Picture and an Opportunity. Santa Barbara Botanic Garden. [link]

2019. Gallo, J.A. Fort Bragg Headlands Consortium. Presented to Fort Bragg City Council. March 21.

2018. Knowledge Systems, Regional Sustainability, and the Santa Barbara County Conservation Blueprint. Seminar at Bren School of Environmental Science and Management, UC Santa Barbara. March 12. [link] [video]

2015. Helping Citizen Science Take Flight: Studies, Resources and Opportunities to Improve the Utility and Uptake of Citizen Science. Audubon Society. Mendocino Coast Chapter, Caspar, CA. February 16 [link].

2014. Boundary Organizations Pushing the Frontier of Spatially Explicit and Collaborative Decision-Making about the Environment. At: Democratizing Technologies- Assessing the roles of NGOs in shaping technological futures. Santa Barbara, CA, November 14.

2012. Collaborative Research Towards Collaborative Conservation Planning and Management. UC Santa Barbara: Michael Goodchild Retirement Event. May 24.

2011. Wolves, Wildness, and Conservation Science. Santa Clara University: Envtl. Studies 22. November 17.

2009. Building and implementing a spatial decision support system for conservation action. Nelson Mandela Metropolitan University. April 23.

2008. The role of private conservation areas in biodiversity representation here in the Little Karoo. Gauritz Initiative Stakeholder Forum. February 2.

2006. Conservation GIS in the Santa Barbara Region. Geography 176A: Introduction to Geographic Information Systems. October 26 [link to .ppt].

2005. Landscape Connectivity and Multi-Criteria Conservation Planning. Environmental Studies 100: Environmental Ecology. November 18.

2005. Gated Least-Cost-Path Modeling and Landscape Connectivity. Geography 176B: Intermediate Geographic Information Systems. March 3.

2004. Conservation Planning and GIS. Geography 176C: Advanced Geographic Information Systems. May 27.

2003. Habitat Connectivity For Large Mammals. Environmental Studies 20: Watershed Issues, Policy, and Research. November 7.

2003. The Web of Sustainable Progress: A Vehicle for Social Change? Antioch University: Community Psychology and Social Change. September 27.

2002. The Wildlands Project and Conception Coast Project: Normative Conservation Planning. Environmental Studies 190: Current Topics in Environmental Studies. April 29.

2002. Developing "Common Ground" for the Gaviota Coast. Ecology and Evolution 192B: Shoreline Preservation Research.. March 8.

2001. The Fourth Wave of Environmentalism: A Ride Towards Sustainability? Environmental Studies 1: Introduction to Environmental Studies. November 29.

2001. Conservation Planning Case Study. Geography 167: Biogeography. November.

2001. The Movement's Two Front Strategy: Damage Control and the Paradigm Shift. Keynote Address at the Annual Banquet of the Shoreline Preservation Fund, Santa Barbara. May 29.

2000. Conception Coast Project: Bridging Academia, Business, and Government towards a Community-Based Vision. UCSB Arts and Lectures at Campbell Hall. Presented after Dave Forman presented The Wildlands Project. May 3.

2000. Biodiversity Conservation and "Reserve Design" within a Planning Context. Geography 185A: Planning Issues. Winter.

1999. Biodiversity Conservation within a Planning Context. Geography 185A: Planning Issues. Winter.

SELECT AWARDS

2022 – Editor's Choice Award, Landscape Ecology Section, Land (MDPI Press)

2020 – National Science Foundation. Open Knowledge Network for Spatial Decision Support. co-grantee. NSF # 1937908

2018 – Charlotte Martin Foundation: Building ecosystem resilience by mapping climate-wise wildlife connectivity & prioritizing actions

2008 – ESRI, Inc. Conservation Grant. Creating a decision support system for conservation action.

2008 – Table Mountain Fund- Incorporating local expert knowledge into a decision support system.

2007 – National Research Foundation (South Africa)- Postdoctoral research award regarding engaged conservation planning for action.

2007 – Critical Ecosystems Partnership Fund- Action research grant regarding engaged conservation planning for action in the Little Karoo, South Africa.

2006 – Jack and Laura Dangermond Award – "promise in Geographic Information Science."

2000 – 2005 - Regents Special Fellowship- University of California.

2000 – The Philip and Aida Siff Educational Foundation Fellowship.

2000 – NSF Graduate Research Fellowship. Honorable Mention.

1995 – Highest College Honors, UCSB- Top 2% of graduating class university-wide.

1995 – Excellence in Environmental Studies, UCSB.

1991 – 1995 Regent's Fellowship, University of California.

1991 – Mensa Society Award. "Outstanding intellectual promise."

1991 – Elks Club Fellowship. Most Valuable Student award.

1991 – Rotary International Award. "proven and continued 'service above self.'"

1991 – Valedictorian. Mendocino High School.

PROFESSIONAL MEMBERSHIPS

- Society for Conservation Biology
- American Association of Geographers
- Society for Conservation GIS
- The Resilience Connections Network (The Resilience Alliance)

SELECT PROFESSIONAL ACTIVITIES

Providing Workshops in Using Linkage Mapper Software July, 2018 and 2022

Associate, Spatial Decision Support Consortium, with an area of emphasis on multi-criteria decision making; 2013 – present.

Peer-review Annals of the Association of American Geographers, Diversity and Distributions, Journal of Environmental Management, Natural Areas Journal, PLoS ONE, Land, and Landscape Ecology. 2002-Present.

Short Course Introduction to Geoprocessing Scripts using Python. Instructor: Jack Horton, ESRI. July30-Aug 1, 2013.

Board of Directors Conception Coast Project 1995-1997; 2000-Present.

Graduate Student Representative Faculty Search Committee, Earth-System Processes 2001.

Stakeholder Representative Gaviota Coast "Common Ground" Steering Committee: 2000 to 2002. Helped negotiate the terms and make-up of an eventual stakeholder group. At times was the only "urban environmentalist" among 20 residents, ranchers and developers. [Relevant editorial]

Undergraduate Representative Environmental Studies Curriculum Revision Committee: 1994 to 1995.

Short Course Wildlands Studies: Greater Yellowstone. Backpacked roadless areas in Montana with small class, met with experts, and simulated a Wilderness valuation process. August 1 – 21, 1992.