JOHN P. WILSON

BIOGRAPHICAL SKETCH



Dr. John P. Wilson is Professor of Sociology and Spatial Sciences in the Dana and David Dornsife College of Letters, Arts and Sciences at the University of Southern California (USC) where he directs the Spatial Sciences Institute as well as the Wilson Map Lab. He also holds courtesy appointments as Professor in the School of Architecture, in the Keck School of Medicine of USC's Department of Preventive Medicine, and in the Viterbi School of Engineering's Departments of Computer Science and Civil & Environmental Engineering.

From 1998 to 2001 and 2007 to 2010 he was Chair of the Department of Geography at USC, and from 1992 to 1997 he was Professor of Geography in the Department of Earth Sciences, Adjunct Professor in the Department of Plant & Soil Science, and Director of the Geographic Information and Analysis Center (GIAC) at Montana State University (MSU). His early career was as Assistant Professor (1984-1990) and then Associate Professor of Geography (1990-1994) with adjunct appointments in Plant & Soil Science at MSU. He founded GIAC at MSU in 1989 and the GIS Research Laboratory, GIST Graduate Programs, and Spatial Sciences Institute at USC in 1997, 2007 and 2010, respectively. He has held several visiting appointments in environmental studies, geography, and planning at the Australian National University, University of Canterbury, University of Chinese Academy of Sciences, University of Utrecht, University of Waikato, and most recently, in the Institute of Geographical Sciences and Natural Resources Research at the Chinese Academy of Sciences.

He founded the journal *Transactions in GIS* published by Wiley-Blackwell in 1996, and has served as Editor-in-Chief since its inception. He currently serves on the editorial boards of the *International Journal of Disaster Response & Emergency Management, Journal of Geo-Spatial Information Science, Open Geospatial Data, Software, & Standards, and the Annals of the Association of American Geographers Review of Books.* He has previously served on the editorial boards of *Applied Geography* (1992-2001) and the *Annals of the Association of American Geographers* (2006-2009). He has chaired the Applied Geography Specialty Group of the Association of American Geographers (1989-1991) and the Research Committee of the University Consortium for Geographic Information Science (UCGIS) (2002-2005). He also served on the Board of Directors (2003-2006) and as President of UCGIS from 2006 to 2007. He currently serves as Editor-in-Chief for the UCGIS GIST Body of Knowledge project and is an active participant in the UNIGIS International Network, a worldwide consortium of universities focused on online geographic information science academic programs.

His research focuses on the modeling of human and environmental systems and makes extensive use of GIS, spatial analysis, and computer models. He has published numerous books and articles on these topics, including *Environmental Applications of Digital Terrain Modeling* (Wiley, 2018) and two edited volumes, *Terrain Analysis: Principles and Applications* (Wiley, 2000) and the *Handbook of Geographic Information Science* (Blackwell, 2008). Much of this work is collaborative with the goal of improving our understanding of the factors linking people, their environments, and their health. The work of his lab group can be seen at http://johnwilson.usc.edu/. He has received numerous honors for his research and teaching, the most recent his election as a Fellow of the UCGIS (2014) and his receipt of a Lifetime Achievement Award by the International Association of Chinese Professionals in Geographic Information Science (2016) and the GIS Education Award by the UCGIS (2019). He also received a Mellon Award for Excellence in Mentoring from the Center for Excellence in Teaching at USC (2005) and the Albert S. Raubenheimer Outstanding Faculty Award for his research, teaching, and service contributions in Dornsife College at USC (2004).

JOHN P. WILSON

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CURRENT APPOINTMENTS

University of Southern California

2018-	Adjunct Professor, Department of Preventive Medicine
2016-	Director, Wilson Map Lab
2014-	GIS Unit Leader, Spatial and Exposure Analytics Facility Core, Southern California
	Environmental Health Sciences Center
2011-	Professor, Department of Sociology
2010-	Director, Spatial Sciences Institute
2010-	Adjunct Professor, School of Architecture
2006-	Adjunct Professor, Department of Computer Science
2006-	Adjunct Professor, Department of Civil and Environmental Engineering

Chinese Academy of Sciences / University of Chinese Academy of Sciences

- 2017- Senior Professor, College of Resources and Environment
- 2014- Professor, Institute of Geographic Sciences and Natural Resources Research

Blackwell/Wiley

1998- Editor-in-Chief, Transactions in GIS

University Consortium for Geographic Information Science

2015- Editor-in-Chief, GIS&T (Geographic Information Science & Technology) Body of Knowledge Project

EDUCATION

1986	Ph.D., Geography, University of Toronto, Canada Dissertation Title: The Use of Statistical Models to Document Environmental Change in the Lake Simcoe Basin
1979	M.Sc. (with Distinction), Geography, University of Canterbury, New Zealand Thesis Title: Internal Migration in the Gilbert and Ellice Islands Colony: An Analysis of the 1973 Census Data
1978	B.Sc. Honors (1st Class), Geography, University of Canterbury, New Zealand
1976	L.L.B. Honors (2 nd Class, 2 nd Division), Law, University of Canterbury, New Zealand

PROFESSIONAL EXPERIENCE

University of Chinese Academy of Sciences

- 2014-2018 Visiting Professor, Thousand Talents of Foreign Experts Program, Institute of Geographic Sciences and Natural Resources Research
- 2010-2014 Visiting Professor, Institute of Geographical Sciences and Natural Resources Research

University of Southern California, Los Angeles, California

- 2008-2014 GIS Unit Leader, Integrative Health Sciences Facility Core, California Environmental Health Sciences Center
- 2007-2010 Chair, Department of Geography
- 2006-2010 Director, Geographic Information Science and Technology Graduate Programs
- 1998-2001 Chair, Department of Geography
- 1997-2016 Director, GIS Research Laboratory
- 1997-2010 Professor, Department of Geography
- 1996-1997 Visiting Professor, Department of Geography
- 1995-1996 Visiting Professor, Department of Geography and School of Urban Planning and Development

University of Utrecht, Utrecht, Netherlands

1998 Visiting Belle van Zuylen Chair, Department of Physical Geography

GeoInformation International

1995-1997 Editor-in-Chief, Transactions in GIS

Australian National University, Canberra, Australia

1994 Visiting Fellow, Centre for Resource and Environmental Studies

University of Waikato, Hamilton, New Zealand

1990 Visiting Lecturer, Department of Geography

Montana State University, Bozeman, Montana

- 1994-1997 Professor, Department of Earth Sciences
- 1994-1997 Adjunct Professor, Department of Plant and Soil Science
- 1990-1994 Associate Professor, Department of Earth Sciences
- 1990-1994 Adjunct Associate Professor, Department of Plant and Soil Science
- 1989-1996 Director, Geographic Information and Analysis Center
- 1984-1990 Assistant Professor, Department of Earth Sciences

University of Toronto, Toronto, Canada

- 1983-1984 Instructor, Department of Geography
- 1979-1983 Graduate Teaching Assistant, Department of Geography

University of Canterbury, Christchurch, New Zealand

- 2013 Visiting Erskine Fellow, Department of Geography
- 1978-1979 Laboratory Demonstrator, Department of Geography

HONORS AND AWARDS

Professional

- Education Award, University Consortium for Geographic Information Science

 Lifetime Achievement Award International Association of Chinase Professionals in Cons
- 2016 Lifetime Achievement Award, International Association of Chinese Professionals in Geographic Information Science
- Best Professional Paper, Journal of Spatial Science (Kim, K., & Wilson, J. P. 2015. Planning and visualising 3D routes for indoor and outdoor spaces using CityEngine. *Journal of Spatial Science*, 60, 179-193)
- 2014 Fellow, University Consortium for Geographic Information Science
- 2008 Special Achievement in GIS Award for Leadership with Geospatial Technology, Esri International User Conference
- 2006 Special Achievement in GIS Award for Leadership in Geospatial Teaching, Esri International User Conference
- 2005 Best Practices Gold Award for Distance Learning Programming, U.S. Distance Learning Association
- 2005 Mellon Award for Excellence in Mentoring, Center for Excellence in Teaching, University of Southern California
- 2005 Webby Worthy Selection, Ninth Annual Webby Awards
- 2004 Albert S. Raubenheimer Outstanding Faculty Award, Dana and David Dornsife College of Letters, Arts and Sciences, University of Southern California
- 2003 Outstanding Teaching Award, Latter-Day Saints Student Association, University of Southern California

Graduate

- 1983 Ph.D. Student Essay Prize, Ontario Division, Canadian Association of Geographers
- 1982-1983 Kenneth E. Grant Graduate Research Scholarship, Soil Conservation Society of America
- 1980-1984 Province of Ontario Graduate Scholarship
- 1979-1980 Connaught Scholarship, University of Toronto
 - 1979 George Jobberns Prize in Geography, University of Canterbury
 - 1979 Charles Cook, Warwick House Memorial Scholarship, University of Canterbury

Undergraduate

- 1973-1975 Longsdale Scholarship, University of Canterbury
 - 1973 New Zealand Geographical Society Annual Prize

PUBLICATIONS

Books

- Wilson, J. P., Environmental Applications of Digital Terrain Modeling. Oxford, UK: Wiley/Blackwell.
- Wilson, J. P., & Fotheringham, A. S. (Eds.), *Handbook of Geographic Information Science*. Oxford, UK: Blackwell.

Wilson, J. P., & Gallant, J. C. (Eds.), *Terrain Analysis: Principles and Applications*. New York, NY: John Wiley and Sons.

Book Chapters

- Wilson, J. P., Connecting population, health and place using geospatial tools and data. In D. Berrigan & N. Berger (Eds.), *Geospatial approaches to energy balance and breast cancer* (in press). Berlin, Germany: Springer.
- Wilson, J. P., Towards geodesign: Building new education programs and audiences. In D. Lee, E. Dias, & H. Scholten (Eds.), *Geodesign by integrating design and geospatial sciences* (pp. 357-369). Berlin, Germany: Springer.
- Wilson, J. P., & Bishop, M. P., Geomorphometry. In J. F. Shroder (Ed.), *Treatise in geomorphology: Volume 3, Remote sensing and GIScience in geomorphology* (pp. 162-186). San Diego, CA: Academic Press.
- Wilson, J. P., & Goodchild, M. F., Rethinking spatial sciences education programs. In T. Jekel, A. Car, J. Strobl, & G. Griesebner (Eds.), *Geoinfomatics Forum 2012: Geovisualization, society and learning conference proceedings* (pp. 242-245). Berlin, Germany: Wichmann.
- Wolch, J., Longcore, T. R., & **Wilson, J. P.,** Unpaving paradise: The Green Visions Plan for southern California. In D. Sloane (Ed.), *Planning Los Angeles* (pp. 230-239). Los Angeles, CA: APA Planners Press.
- Wilson, J. P., Aggett, G. R., Deng, Y. X., & Lam, C. S., Water in the landscape: A review of contemporary flow routing algorithms. In Q. Zhou, B. G. Lees, & G. A. Tang (Eds.), *Advances in digital terrain analysis* (pp. 213-236). Berlin, Germany: Springer Lecture Notes in Geoinformation and Cartography.
- Goldberg, D. W., **Wilson, J. P.,** & Knoblock, C. A., Exploring the use of gazetteers and geocoders for the analysis and interpretation of a dynamically changing world. In K. S. Hornsby, & M. Yuan (Eds.), *Understanding the dynamics of geographic domains.* (pp. 51-74). Boca Raton, FL: CRC Publishers.
- Wilson, J. P., & Deng, Y. X., Terrain analysis. In K. K. Kemp (Ed.), *Encyclopedia of geographic information science* (pp. 465-467). Thousand Oaks, CA: Sage Publications.
- Fotheringham, A. S., & Wilson, J. P., Geographic information science: An introduction. In J.
 P. Wilson, & A. S. Fotheringham (Eds.), Handbook of geographic information science (pp. 1-10).
 Oxford, UK: Blackwell.
- Deng, Y. X., **Wilson, J. P.,** & Gallant, J. C., Terrain analysis. In **J. P. Wilson,** & A. S. Fotheringham (Eds.), *Handbook of geographic information science* (pp. 417-435). Oxford, UK: Blackwell.
- Ryan, C. M., **Wilson, J. P.,** B. Fulton, Living on the edge: Growth policy choices for Ventura County. In J. Wolch, M. Pastor, & P. Dreier (Eds.), *Up against the sprawl: Public policy and the making of 21st century Los Angeles* (pp. 309-341). Minneapolis, MN: University of Minnesota Press.

- Wilson, J. P., & Gallant, J. C., Digital terrain analysis. In J. P. Wilson, & J. C. Gallant (Eds.), Terrain analysis: Principles and applications (pp. 1-27). New York, NY: John Wiley and Sons.
- Gallant, J. C., **Wilson, J. P.**, Primary topographic attributes. In **J. P. Wilson,** & J. C. Gallant (Eds.), *Terrain analysis: Principles and applications* (pp. 51-85). New York, NY: John Wiley and Sons.
- Wilson, J. P., & Gallant, J. C., Secondary topographic attributes. In J. P. Wilson, & J. C. Gallant (Eds.), Terrain analysis: Principles and applications (pp. 87-131). New York, NY: John Wiley and Sons.
- Wilson, J. P., Repetto, P. L., & Snyder, R. D., Effect of data source, grid resolution, and flow routing method on computed topographic attributes. In J. P. Wilson, & J. C. Gallant (Eds.), *Terrain analysis: Principles and applications* (pp. 133-161). New York, NY: John Wiley and Sons.
- Wheatley, J. M., Wilson, J. P., Ma, Z., Redmond, R. L., & DiBenedetto, J., Automated land cover mapping using LANDSAT TM images and topographic attributes. In J. P. Wilson, & J. C. Gallant (Eds.), Terrain analysis: Principles and applications (pp. 355-389). New York, NY: John Wiley and Sons.
- Gallant, J. C., Hutchinson, M. F., & Wilson, J. P., Future directions for terrain analysis. In J. P. Wilson, & J. C. Gallant (Eds.), Terrain analysis: Principles and applications (pp. 423-427).
 New York, NY: John Wiley and Sons.
- 1999 Wilson, J. P., & Lorang, M. S., Spatial models of soil erosion and GIS. In A. S. Fotheringham, & M. Wegener (Eds.), Spatial models and GIS: New potential and new models. (pp. 83-108). London, UK: Taylor and Francis.
- Wilson, J. P., Local, national, and global applications of GIS in agriculture. In P. A. Longley, D. J. Maguire, M. F. Goodchild, & D. W. Rhind (Eds.), *Geographical information systems: Volume 2, Management issues and applications* (pp. 981-998). New York, NY: John Wiley and Sons (Reprinted in Second, Abridged Edition, 2005).
- 1999 Wilson, J. P., Current and future trends in the development of integrated methodologies for assessing non-point source pollutants. In D. L. Corwin, K. Loague, & T. R. Ellsworth (Eds.), *Advanced information technologies for assessing nonpoint source pollution in the vadose zone* (pp. 343-361). Washington, D.C.: American Geophysical Union.
- 1998 Wilson, J. P., & Gallant, J. C., Terrain-based approaches to environmental resource evaluation. In S. N. Lane, K. S. Richards, & J. H. Chandler (Eds.), *Landform monitoring, modeling and analysis* (pp. 219-240). London, UK: John Wiley and Sons.
- Spangrud, D. J., **Wilson, J. P.,** Jacobsen, J. S., Nielsen, G. A., & Tyler, D. A., Sensitivity of computed terrain attributes to the number and pattern of GPS-derived elevation data. In P. C. Robert, & R. H. Rust (Eds.), *Site-specific management for agricultural systems* (pp. 285-301). Madison, WI: American Society of Agronomy.
- 1993 Moore, I. D., Turner, A. K., **Wilson, J. P.,** Jenson, S. K., & Band, L. E., GIS and land surface-subsurface process modeling. In M. F. Goodchild, B. O. Parks, & L. T. Steyaert (Eds.), *Environmental modeling with GIS* (pp. 197-230). New York, NY: Oxford University Press.

- Moore, I. D., Grayson, R. B., & **Wilson, J. P.,** Runoff modeling in complex three-dimensional terrain. In H. Lang, & A. Musy (Eds.), *Hydrology in mountainous regions: Hydrological measurements, the water cycle* (pp. 591-598). Wallingford, UK: International Association of Hydrological Sciences Publication No. 193.
- 1988 **Wilson, J. P.,** The management of soil and water resources: Information requirements and models. In R. D. Bedford (Ed.), *Geography: A celebration* (pp. 84-109). Christchurch, New Zealand: University of Canterbury.
- Pushchak, R., & Wilson, J. P., Environmental impact assessment for urban natural areas. In W. A. Andrews, & J. L. Cramner-Byng (Eds.), *Urban natural areas: Ecology and preservation* (pp. 73-90). Toronto, Ontario, Canada: Institute for Environmental Studies Environmental Monograph No. 2.
- 1981 Lea, A. C., & **Wilson, J. P.,** Subsystems studies: Socio-economic factors. In W. A. Andrews, & J. L. Cramner-Byng (Eds.), *Urban natural areas: Ecology and preservation* (pp. 175-198). Toronto, Ontario, Canada: Institute for Environmental Studies Environmental Monograph No. 2.

Refereed Journal Articles

- 2019 Chen, Y., Wu, Q., Wilson, J. P., Ba, Q., Yang, J., & Zhang, X., An effective parallelization algorithm for DEM generalization based on CUDA. *Environmental Modeling & Software*, 114, 64-74.
- 2018 Chen, Y., Zhou, J., **Wilson, J. P.,** Wu, J., Wu, Q., & Yang, J., A dynamic classification pattern of spatial statistical services using formal concept analysis. *Geographical Analysis*, 50, 454-476.
- Shahabi, K., & **Wilson, J. P.,** Scalable evacuation routing in a dynamic environment. *Computers, Environment and Urban Systems*, 67, 29-40.
- Zhang, L. L., Yue, T. X., **Wilson, J. P.,** Zhao, N., Du, Z. P., & Liu, X., A comparison of satellite observations with the XCO2 surface obtained by fusing TCCON measurements and GEOS-Chem model outputs. *Science of the Total Environment*, 601-602, 1575-1590.
- Brandt, S. J., Dickinson, B., Ghosh, R., Perez, L., Lurmann, F., Penfold, B., **Wilson, J. P.,** Millet, M., Künzli, N., & McConnell, R., Costs of coronary heart disease and mortality associated with near-roadway air pollution. *Science of the Total Environment*, 601-602, 391-396.
- 2017 Lee, S. J., Longcore, T. R., Rich, C., & Wilson, J. P., Increased home size and hardscape decreases urban forest cover in Los Angeles County's single-family residential neighborhoods. *Urban Forestry and Urban Greening*, 24, 222-235.
- 2017 Lue, E., & **Wilson, J. P.,** Mapping fires and Red Cross aid with demographic indicators of vulnerability. *Disasters*, 41, 409-426.
- Zhang, L. L., Yue, T. X., Wilson, J. P., Wang, D. Y., Liu, Y., Zhao, N., Liu, D. D., Du, Z. P., Wang, Y. F., & Lin, C., Modelling of XCO2 surface based on flight test of TanSat instruments. Sensors, 16, 1818.
- Yue, T. X., Zhang, L. L., Zhao, M. W., Wang, Y. F., & Wilson, J. P., Space- and ground-based CO2 measurements: A review. *Science China Earth Sciences*, 56, 2089.

- Yue, T. X., Zhao, N., Fan, Z. M., Li, J., Chen, C. F., Lu, Y. M., Wang, C. L., Xu, B., & Wilson, J. P., CMIP5 downscaling and its uncertainty in China. *Global and Planetary Change*, 146, 130-137.
- Yue, T. X., Wang, Y. F., Du, Z. P., Zhao, M. W., Zhang, L. L., Zhao, N., Lu, M., Larocque, G. R., & Wilson, J. P., Analyzing the uncertainty of estimating forest carbon stocks in China. *Biogeosciences*, 13, 3991-4004.
- 2016 Chen, Z., Salam, M. T., Toledo-Corral, C., Watanabe, R. M., Xiang, A. H., Buchanan, T. A., Habre, R., Bastain, T. M., Lurmann, F., **Wilson, J. P.,** Trigo, E., & Gilliland, F. D., Ambient air pollutants have adverse effects on insulin and glucose homeostatis in Mexican Americans. *Diabetes Care*, 39, 547-554.
- Ghosh, R., Lurmann, F., Perez, L., Penfold, B., Brandt, S., **Wilson, J. P.,** Millet, M., Kunzli, N., & McConnell, R. S., Near roadway air pollution and coronary heart disease: Burden of disease and potential impact of greenhouse gas reduction. *Environmental Health Perspectives*, 124, 193-200.
- Lin, H., Batty, M., Jorgensen, S. E., Fu, B., Konecny, M., Voinov, A., Torrens, P., Lu, G., Zhu, A. X., **Wilson, J. P.,** Gong, J., Kolditz, O., Bandrova, T., & Chen, M., Virtual environments begin to embrace process-based geographic analysis. *Transactions in GIS*, 19, 493-498.
- Yue, T. X., Zhao, M. W., Zhao, N., Chen, C.F., Du, Z. P., Song, D. J., Fan, Z. M., Shi, W. J., Wang, S. H., Yan C. Q., Li, Q. Q., Sun, X. F., Yang, H., Wilson, J. P., & Xu, B., A review of recent developments in HASM. *Environmental Earth Sciences*, 74, 6541-6549.
- VoPham, T. M., Wilson, J. P., Ruddell, D., Rashed, T., Brooks, M. A., Yuan, J. M., Talbott, E. O., Chang, C. C. H., & Weissfeld, J. L., Linking pesticides and human health: A geographic information system (GIS) and Landsat remote sensing method to estimate agricultural pesticide exposure. *Applied Geography*, 62, 171-181.
- Chen, Z., Salam, M. T., Karim, R., Toledo-Corral, C. M., Watanabe, R. M., Xiang, A. H., Buchanan, T. A., Habre, R., Bastain, T. M., Lurmann, F., Taher, M., Wilson, J. P., Trigo, E., & Gilliland, F. D., Living near a freeway is associated with lower bone mineral density among Mexican Americans. *Osteoporosis International*, 26, 1713-1721.
- Wang, Q., Liu, X., Yue, T. X., Wang, C., & Wilson, J. P., Using models and spatial analysis to analyze spatio-temporal variations of food provision and food potential across China's agroecosystems. *Ecological Modeling*, 306, 152-159.
- 2015 Kim, K., & **Wilson, J. P.,** Planning and visualizing 3D routes for indoor and outdoor spaces in CityEngine. *Journal of Spatial Science*, 60, 179-193.
- 2015 Cederbaum, J. A., Petering, R., Hutchinson, M. K., He, A. S., **Wilson, J. P.,** Jemmott, J. B., & Jemmott, L. S., Alcohol outlet density and related use within an urban population in Philadelphia public housing communities. *Health & Place*, 31, 31-38.
- Brandt, S. J., Perez, L., Künzli, N., Lurmann, F., **Wilson, J. P.,** Pastor, M., & McConnell, R. S., Near-roadway air pollution and the cost of childhood asthma exacerbations in Los Angeles County. *Journal of Allergy & Clinical Immunology*, 134, 1028-1035.

- Lue, E., **Wilson, J. P.,** & Curtis, A., Conducting disaster damage assessments with spatial video, experts and the inexperienced public. *Applied Geography*, 52, 46-54.
- 2014 Chen, Y., Zhou, Q., Li, S., Meng, F., Bi, X., Wilson, J. P., Xing, Z., & Qi, J., The simulation of surface flow dynamics using a flow path network model. *International Journal of Geographical Information Science*, 28, 2242-2260.
- Shahabi, K., & **Wilson, J. P.,** CASPER: Intelligent capacity-aware urban routing. *Computers, Environment and Urban Systems,* 46, 12-24.
- Ghaemi, P., Shahabi, K., **Wilson, J. P.,** & Banaei-Kashani, F., A comparative study of two approaches for supporting optimal network location queries. *Geoinformatica*, 18, 229-251.
- Hricko, A., Rowland, G., Eckel, S., Logan, A., Taher, M., & Wilson, J. P., Global trade, local impacts: Lessons from California on health impacts related and environmental justice concerns for residents living near freight rail yards. *International Journal of Environmental Research & Public Health*, 11, 1914-1941.
- Dueker, D., Taher, M., **Wilson, J. P.,** & McConnell, R. S., Evaluating children's locations using a personal GPS logging instrument: Limitations and lessons learned. *Journal of Exposure Science and Environmental Epidemiology*, 24, 244-252.
- Perez, L., Lurmann, F., **Wilson, J. P.,** Pastor, M., Brandt, S. J., Künzli, N., McConnell, R. S., Near-roadway pollution and childhood asthma: Implications for developing "win-win" compact urban development and clean vehicle strategies. *Environmental Health Perspectives*, 120, 1619-1626.
- 2012 Chen, Y., **Wilson, J. P.,** Zhu, Q., & Zhou, Q., Comparison of drainage-constrained methods for DEM generalization. *Computers & Geosciences*, 48, 41-49.
- Swift, J. N., **Wilson, J. P.,** & Nguyen, T., Estimated temporal variation of losses due to a recurrence of the 1933 Long Beach earthquake. *Earthquake Spectra*, 28, 347-365.
- Wilson, J. P., Digital terrain modeling. Geomorphology, 137, 107-121.
- 2010 Longcore, T. R., Kobernus, P., Lam, C. S., Polk, E., & Wilson, J. P., Extracting useful data from imperfect monitoring schemes: Endangered butterflies at San Bruno Mountain, San Mateo County, California (1982-2000) and implications for habitat management. *Journal of Insect Conservation*, 14, 335-346.
- 2010 Lee, S. J., Longcore, T., & Wilson, J. P., Identification of municipal policies that influence the distribution of green cover across metropolitan regions. *International Archives of Photogrammetry, Remote Sensing, and Spatial Information Sciences*, 38, Part II, 513-518.
- Sister, C. E., Wolch, J., & Wilson, J. P., Got green? Addressing environmental justice in park provision. *GeoJournal*, 75, 229-248.
- Aggett, G. R., & Wilson, J. P., Creating and coupling a high-resolution LiDAR-based DTM with a 1-D hydraulic model in a GIS for scenario-based assessment of avulsion hazard in a gravel bed river. *Geomorphology*, 113, 21-34.

- Ghaemi, P., Swift, J. N., Sister, C. E., **Wilson, J. P.,** & Wolch, J., Design and implementation of a Web-based platform to support interactive environmental planning. *Computers, Environment & Urban Systems*, 33, 482-491.
- 2009 Goldberg, D. W., **Wilson, J. P.,** & Knoblock, C. A., Extracting geographic features from the Internet to automatically build detailed regional gazetteers. *International Journal of Geographical Information Science*, 23, 93-128.
- Sheng, J., **Wilson, J. P.,** & Lee, S. J., Comparison of land surface temperature (LST) modeled with a spatially distributed solar radiation model (SRAD) and remote sensing data. *Environmental Modeling & Software*, 24, 436-443.
- Sheng, J., & **Wilson, J. P.,** Watershed urbanization and changing flood behavior across the Los Angeles metropolitan region. *Natural Hazards*, 48, 41-57.
- Deng, Y. X., & **Wilson, J. P.,** Multi-scale and multi-criteria mapping of mountain peaks as fuzzy entities. *International Journal of Geographical Information Science*, 22, 205-218.
- Goldberg, D. W., **Wilson, J. P.,** Knoblock, C. A., Ritz, B., & Cockburn, M. G., An effective and efficient approach for manually improving geocoded data. *International Journal of Health Geographics*, 7, 60.
- Shankardass, K., McConnell, R. S., Milam, J., Berhane, K., Tatalovich, Z., Wilson, J. P., & Jerrett, M., The association between contextual socioeconomic factors and prevalent asthma in a cohort of southern California school children. *Social Science & Medicine*, 65, 1792-1806.
- Bou Kheir, R., **Wilson, J. P.,** & Deng, Y. X., Use of terrain variables for mapping gully erosion susceptibility in Lebanon. *Earth Surface Processes & Landforms*, 32, 1770-1782.
- Deng, Y. X., Chen, X., Chuvieco, E., Warner, T. A., & Wilson, J. P., Multi-scale linkages between topographic attributes and vegetation indices in a mountainous landscape. *Remote Sensing of Environment*, 111, 122-134.
- Sheng, J., **Wilson, J. P.,** Chen, N., Sayre, J. M., & Devinny, J. S., Evaluating the quality of the National Hydrography Dataset for watershed assessments in metropolitan regions. *GIScience & Remote Sensing*, 44, 1-22.
- Wilson, J. P., Lam, C. S., & Deng, Y. X., Comparison of the performance of flow routing algorithms used in GIS-based hydrologic analysis. *Hydrological Processes*, 21, 1026-1044.
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- 1988 Wilson, J. P., Farmland at risk: The geography of soil erosion. Western Wildlands 14(2): 6-11.

Manuscripts Submitted or Under Construction

Gilliam, S., Minaravesh, B., Van Norden, S. & **Wilson, J. P.,** Framing interdisciplinary health studies with theoretically informed spatial concepts. *Health & Place* (in preparation).

- Li, Y., R. Habre, **J. P. Wilson,** T. Mason, & G. F. Dunton. Methodologies for integrating GPS, GIS, and accelerometry to construct relevant built environment contexts of physical activity: A systematic review *Health & Place* (submitted 4/19).
- Ma, T., Zhao, N., Ni, Y., Yi, J., Wilson, J. P., Du, Y., Pei, T., Zhou, C., Song, C., & Cheng, W., China's improving inland water quality since 2003. *Science Advances* (returned for revisions 4/19).
- Wilson, J. P., Geomorphometry: Today and tomorrow. *Peer J* (submitted 10/18).
- Wilson, J. P., Concepts and challenges in geomorphometry. In M. P. Bishop & J. R. Giardino (Eds.), *Treatise in Geomorphology: Technology-Driven Geomorphology, Geospatial Data Science and Geochronology*. Oxford, UK: Elsevier (in preparation).
- Wilson, J. P., & Duan, L., The role and place of geodesign in a rapidly evolving geographic information science landscape. *Annals of the American Association of Geographers* (in preparation).
- Yue, T. X., Zhao, N., Fan, Z. M., Li, J., Chen, C. F., Lu, Y. M., Wang, C. L., Gao, J., Xu, B., & Wilson, J. P., Methods for simulating climate scenarios with improved spatiotemporal specificity and less uncertainty. *Global and Planetary Change* (revised and resubmitted 4/19).
- Yue, T. X., N. Zhao, Y.-F. Wang, Y. Liu, B. Zhang, Z.-P. Du, Z.-M. Fan, W.-J. Shi, C.-F. Chen, M.-W. Zhao, D.-J. Song, C.-Q. Yan, Q.-Q. Li, X.-F. Sun, L.-L. Zhang, Y. Liu, Z. Wang, Z. Y. Bao, M. Zhao, Y. Zhao, Y.-Z. Tian, W. Wang, Y.-A. Wang, S.-N. Ma, H. Huang, Y.-M. Lu, Q. Wang, C.-L. Wang, M. Lu, X.-Z. Yin, J. Yu, W. Zhou, & J. P. Wilson. Recent advances in high accuracy surface modeling. *Science Bulletin* (submitted 3/19).
- Zhang, L., **Wilson, J. P.,** MacDonald, B., Cao, W., Liu, Y., & Yu, T., PM2.5 dynamics in global megacities based on long-term remotely sensed observations. *Environmental Science & Technology* (submitted 4/19).
- Zhao, M., Wang, Y., Yang, J., Zhao, N., Yue, T. X., & Wilson, J. P., Estimation of China's forest stand biomass carbon sequestration based on the Continuous Biomass Expansion Factor model and seven forest inventories from 1977 to 2013. *Forest Ecology and Management* (submitted 1/19).
- Zhao, M., Yang, J., Zhao, N., Liu, Y., **Wilson, J. P.,** & Yue, T.-X., The relative contributions of forest growth and area expansion to China's forest stand biomass carbon from 1977 to 2013. *Environmental Research Letters* (in preparation).

PRESENTATIONS

Conferences and Workshops

- de Figueiredo, M. F. P., Klerman, D., **Wilson, J. P.,** Hall, M. B., & MacDonald, B., *Legal origin from outer space*. Annual Meeting of the American Law and Economics Association, New York, New York.
- Duan, L., & **Wilson, J. P.,** *How learning happens in the geodesign process.* Education, Design and Practice: Understanding skills in a Complex World Conference, Hoboken, New Jersey.

- Wilson, J. P., GeoAI and Deep Learning Symposium: Whether and how GeoAI will transform geospatial research (Panel discussion). Annual Meeting of the American Association of Geographers, Washington, D.C.
- Wilson, J. P., Geospatial approaches to cancer control and population sciences: What's happening and what's needed? (Panel discussion). Annual Meeting of the American Association of Geographers, Washington, D.C.
- Wilson, J. P., Does cartography need a BoK? (Panel discussion). Annual Meeting of the American Association of Geographers, Washington, D.C.
- Wilson, J. P., *Uncertainty and bias in geospatial data science*. Annual Meeting of the American Association of Geographers, Washington, D.C.
- Wolfswinkel, E. M., Howell, A. C., MacDonald, B., Wilson, J. P., Magee III, W., & Howell, L. K., American Indian Alaskan Native (ALAN) access to appropriate cleft lip and palate treatment using geographic information systems (Poster). Eighth International Meeting on Indigenous Child Health, Calgary, Alberta, Canada.
- Castellanos, R., Corsi, G., Friedman, B., Fruithandler, J., Goldwasser, F., Ly, E., Swift, J., & Wilson, J. P., Changing our global infrastructure in East Los Angeles, California: An international collaborative geodesign studio. Los Angeles Geospatial Summit, Los Angeles, California.
- 2019 Yi, L., Dunton, G. F., & Wilson, J. P., Methodologies for integrating GPS, GIS, and accelerometry to construct relevant built environment contexts of physical activity: A systematic review. Active Living Conference, Charleston, South Carolina.
- Wilson, J. P., Places, social determinants of health, and electronic health records. Annual Symposium of Children's Hospital Los Angeles & Saban Research Institute, Los Angeles, California.
- Wilson, J. P., *Digital terrain modeling*. Replicability and Reproducibility in Geospatial Research Workshop, Spatial Analysis Research Center, Arizona State University, Phoenix, Arizona.
- McConnell, R., Kunzli, N., Wilson, J. P., & Lurmann, F., Compact urban re-development and near-roadway air pollution health impact assessment: Identifying opportunities for health co-benefits of climate change mitigation in Southern California. Transportation, Air Quality, and Health Symposium, Austin, Texas.
- 2019 Lee, S.-J., **Wilson, J.P.,** Rich, C., & Longcore, T.R., *Effects of increased home size on the green cover in Los Angeles County's single-family neighborhoods.* Western Tree Management Building Greener Communities Symposium, San Marino, California.
- Wilson, J. P., *Geomorphometry: Today and tomorrow*. Sixth International Geomorphometry Symposium, Denver, Colorado.
- McConnell, R., Kunzli, N., **Wilson, J. P.,** & Lurmann, F., Near-roadway air pollution attributable burden of disease and cost: A tool for formulating local climate change mitigation policy with health co-benefits? Urban Transitions: Integrating Urban and Transport Planning, Environment and Health for Happier Urban Living, Barcelona, Spain.
- Wilson, J. P., Developing a new Body of Knowledge as a basis for curriculum design: The U.S. experience. EO4GEO Workshop, Castellón de la Plana, Spain.

- Sylvester, B., MacDonald, B., McCullough, M., Brindopke, F., Magee, W., & Wilson, J.P., Visualizing surgical mission catchment areas in Mexico using geospatial technologies. Annual Meeting of the California Society of Plastic Surgeons, San Diego, California.
- Wilson, J. P., Geospatial intelligence: Challenges and opportunities (Panel discussion), Annual Meeting of the American Association of Geographers, New Orleans, Louisiana.
- Wilson, J. P., The next generation of the GIS&T body of knowledge (Panel discussion), Annual Meeting of the American Association of Geographers, New Orleans, Louisiana.
- Wilson, J. P., CyberGIS and Spatial Data Science (Panel discussion), Annual Meeting of the American Association of Geographers, New Orleans, Louisiana.
- Wilson, J. P., Friedman, B., & Herron, J., Real-world solutions with geodesign. Ninth Annual Geodesign Summit, Redlands, California.
- Wilson, J. P., Making collaboration work (Panel discussion), GEO: Design+BIM Conference, Amsterdam, the Netherlands.
- Wilson, J. P., *The practice of geospatial leadership*. Annual Meeting of the Urban and Regional Information Systems Association, Jacksonville, Florida.
- Wilson, J. P., 3D visualization and decision-making: Applications for the University of Southern California. Annual Meeting of the Urban and Regional Information Systems Association, Jacksonville, Florida.
- Wilson, J. P., Meet the editors: GIScience journals (Panel discussion), Annual Meeting of the American Association of Geographers, Boston, Massachusetts.
- 2017 Mitchell, I., Brazil, N., MacDonald, B., Franke, R., Ngo, L., Qian, Y., Schoonover, K., Windisch, R., & Wilson, J. P., A spatial analysis of street-level crime trends in Los Angeles, Seventh Annual Los Angeles Geospatial Summit, Los Angeles, California.
- Wilson, J. P., Geodesign as a multiscale global enterprise. Geodesign Europe Summit, Delft, the Netherlands.
- Wilson, J. P., Connecting population, health and place (with geospatial tools and data). Geospatial Approaches to Cancer Control and Population Sciences Conference, Bethesda, Maryland.
- Wilson, J. P., Reactions to the keynote address by Margaret Leinen, Director of the Scripps Institution of Oceanography, current president of the American Geophysical Union, and a US State Department Science Envoy (Panel discussion). Esri International User Conference, San Diego, California.
- Escobedo, L. A., Cockburn, M. G., & Wilson, J. P., Spatial disparities in adherences to colorectal cancer screening among the elderly. Fourth Epidemiology Conference of the Americas, Miami, Florida.
- Wilson, J.P., Community health mapping in a world awash with geographic data and tools. Community Health Mapping Workshop, Bethesda, Maryland.
- Escobedo, L. A., Cockburn, M. G., & Wilson, J. P., Improving the reliability of the American Community Survey with an application to targeted melanoma control and prevention. Annual Meeting of the American Association of Geographers, San Francisco, California.

- Wilson, J. P., *The challenges and opportunities accompanying geospatial big data.* International Workshop on Big Data: Challenges and Opportunities for Disaster Recovery, Shonan, Japan.
- Wilson, J. P., Establishing a B.S. in GeoDesign to foster interdisciplinary collaboration. Seventh Annual Geodesign Summit, Redlands, California.
- Wilson, J. P., GIS&T BoK project update, University Consortium for Geographic Information Science, Washington, DC.
- Wilson, J. P., UCGIS 20th anniversary retrospective (Panel discussion), University Consortium for Geographic Information Science Symposium, Washington, DC.
- Wilson, J. P., Commercial and open source software: Geographic information systems (Panel discussion). Workshop on Academic Computing at USC, University of Southern California, Los Angeles, California.
- Wilson, J. P., Bridging geo-process modeling and virtual worlds naturally in research (Panel discussion). International Conference on Geo-Process Modeling in VGE: Managing and Sharing Geographic Knowledge, Hong Kong.
- Zhao, M. W., Yue, T. X., Zhao, N., Chen, C. F., Du, Z. P., Dong, D. J., Fan, Z. M., Shi, W. J., Wang, S. H., Wang, C. L., Yan, C. Q., Li, Q. Q., Sun, X. F., Yang, H., Xu, B., & Wilson, J. P., A review of HASM. International Conference on Geo-Process Modeling in VGE: Managing and Sharing Geographic Knowledge, Hong Kong.
- Wilson, J. P., Cancer surveillance: The case for an enduring spatial science base. Opportunities for Integrating Spatial Science into Cancer Surveillance Workshop, National Cancer Institute, Rockville, Maryland.
- Wilson, J. P., Building a vibrant and enduring spatial science. Ninth International Workshop on Geographical Information Science (IWGIS 2014: Major Emerging GIScience Research Challenges), Beijing, China.
- Wilson, J. P., UCGIS Geographic Information Science & Technology Body of Knowledge 2.0 project. Geographic Information: Need to Know (GI-N2K) Project Workshop, Castellón, Spain.
- Wilson, J. P., *The case for an enduring spatial science*. Seventeenth AGILE Conference on Geographic Information Science, Castellón, Spain.
- Wilson, J. P., GIScience master's and certificate programs: Improving practice and sharing experiences (Panel discussion). University Consortium for Geographic Information Science Pre-Symposium Workshop, Pasadena, California.
- Wilson, J. P., The science of where: Maps, models, and storytelling. Annual Teaching with Technology Conference on Digital Knowledge across the Curriculum, University of Southern California, Los Angeles, California.
- Wilson, J. P., Geospatial education online (Panel discussion). Annual Center for Geographic Analysis Conference, Harvard University, Cambridge, Massachusetts.
- VoPham, T. M., **Wilson, J. P.,** Ruddell, D., Rashed, T., & Weiessfeld, J. L., *A Landsat remote sensing method to estimate agricultural pesticide exposure in California*. Annual Meeting of the Association of American Geographers, Tampa Bay, Florida.

- Wilson, J. P., Spatiotemporal thinking, computing, and applications: Working session towards a research agenda (Panel discussion). Annual Meeting of the Association of American Geographer, Tampa Bay, Florida.
- Wilson, J. P., Symposium on synergistic advances in cyberGIS and geography: CyberGIS body of knowledge (Panel discussion). Annual Meeting of the Association of American Geographer, Tampa Bay, Florida.
- Wilson, J. P., Creating a spatially enabled campus. Advancing the Spatially Enabled Smart Campus Specialist Meeting, Center for Spatial Studies, University of California, Santa Barbara, California.
- Wilson, J. P., The geography-environment nexus: Spatially-explicit environmental analysis and modeling. International Conference on Geography and Environment, Mexico City, Mexico.
- Wilson, J. P., Towards geodesign: Building new education programs and audiences. Geodesign Europe Summit, Leerdam, the Netherlands.
- Wilson, J. P., Here, there & everywhere: Recasting the spatial sciences to serve a spatializing world. UNIGIS-Amsterdam 20th Anniversary Symposium, Leerdam, the Netherlands.
- 2013 Kim, K., & Wilson, J. P., Using CityEngine to plan and visualize routes in indoor and outdoor spaces. Annual Esri International Education User Conference, San Diego, California.
- Wilson, J. P., Cultivating spatial intelligence in bite-sized chunks. Annual Meeting of the Association of American Geographers, Los Angeles, California.
- Wilson, J. P., Scholastic pioneers: Emerging best practices in geodesign education (Panel discussion). Fourth Annual Geodesign Summit, Redlands, California.
- Wilson, J. P., *Cultivating spatial intelligence*. Spatial Thinking across the College Curriculum Specialist Meeting, Center for Spatial Studies, University of California, Santa Barbara, California.
- Wilson, J. P., Measuring people in place: Synthesis of Day 1 (Panel discussion). Measuring People in Place Workshop, Boulder, Colorado.
- Wilson, J. P., & Goodchild, M. F., How should GIS education be reshaped to serve future needs? Sixth Annual GI Forum, Salzburg, Austria
- Wilson, J. P., *Rethinking and repositioning geographic information science*. Annual Meeting of the University Consortium of Geographic Information Science, Washington, D.C.
- Wilson, J. P., *Professional online GIS degree programs: A panel discussion*. Annual Meeting of the American Society of Photogrammetry and Remote Sensing, Sacramento, California.
- Wilson, J. P., Making journal articles 'live': Turning academic writing into scientific dialog (Panel discussion). Annual Meeting of the Association of American Geographers, New York, New York.
- Wilson, J. P., Future of academic GIS centers: Opportunities and challenges (Panel discussion). Annual Meeting of the Association of American Geographers, New York, New York.
- Wilson, J. P., Murphy, A., & Sloane, D., Creating a B.S. in geodesign at the University of Southern California. Third Annual Geodesign Summit, Redlands, California.

- Wilson, J. P., Geodesign education: Where are we and where are we going? (Panel discussion). Third Annual Geodesign Summit, Redlands, California.
- 2011 Lee, S. J., Longcore, T. R., & Wilson, J. P., Monitoring urban land cover change using GIS & remote sensing: A Los Angeles County case study. Thirty-first International Esri User Conference, San Diego, California.
- 2011 Lee, S. J., Longcore, T. R., & Wilson, J. P., Modeling the ecological impacts of mansionization in metropolitan regions. Annual Meeting of the Association of American Geographers, Seattle, Washington.
- Wilson, J. P., Modeling surface runoff & contaminants in large metropolitan regions. University of Southern California, Dornsife College of Letters, Arts and Sciences Southern California Bight Climate Change Workshop, Los Angeles, California.
- Wilson, J. P., Geography & our digital futures (Panel discussion). Joint Meeting & Biennial Conference of the New Zealand Geographical Society and Australian Institute of Geographers, Christchurch, New Zealand.
- Wilson, J. P., Geography & GIS as middleware. Joint Meeting & Biennial Conference of the New Zealand Geographical Society and Australian Institute of Geographers, Christchurch, New Zealand.
- Wilson, J. P., *Professional GIS degree programs (Panel discussion)*. Summer Assembly of the University Consortium of Geographic Information Science, Hilton Head Island, South Carolina.
- 2010 Lee, S. J., Longcore, T. R., & Wilson, J. P., Identification of municipal polices that influence the distribution of green cover across metropolitan regions. Joint International Conference on Theory, Data Handling and Modeling in Geospatial Information Science, Hong Kong.
- Wilson, J. P., Modeling surface runoff and contaminants in large metropolitan regions. University of Southern California Water Retreat, Los Angeles, California.
- 2010 Lue, E., **Wilson, J. P.,** & Longcore, T. R., Assessing fuzzy k-means landscape classification as a complement to GPS collar data in determining Catalina Island fox habitat preferences. Annual Meeting of the Association of American Geographers, Washington, D.C.
- Wilson, J. P., Community of professional graduate programs in GIS&T (Panel discussion). Annual Meeting of the Association of American Geographers, Washington, D.C.
- 2010 Lee, S. J., Longcore, T. R., & Wilson, J. P., Modeling the ecological impacts of mansionization in metropolitan regions. Annual Meeting of the Association of American Geographers, Washington, D.C.
- Wilson, J. P., GIS master's programs: A panel discussion. Annual Meeting of the Association of Pacific Coast Geographers, San Diego, California.
- Wilson, J. P., Role of geocomputation in the hydrological sciences. First International Symposium on Geo-Computation and Analysis, Wuhan, China.

- Jerrett, M., Berhane, K., Chang, C.-C., Wolch, J., Reynolds, K., **Wilson, J. P.,** ..., & McConnell, R., *Food access around the home and the development of obesity in a prospective cohort study of children aged 10–18 years.* Annual Conference of the International Society for Environmental Epidemiology, Dublin, Ireland.
- Tatalovich, Z., Wilson, J. P., & Cockburn, M. G., Modeling potential UV exposure for objective assessment of melanoma risk. Annual CDC Conference on the Future of Environmental Public Health, Washington, D.C.
- Wilson, J. P., Building science-based spatial decision support tools to promote environmental sustainability. International Conference on GeoInformatics for Spatial Infrastructure Development in the Earth and Allied Sciences, Hanoi, Vietnam.
- Wilson, J. P, GIScience journal editors: A panel discussion. International Conference on Geographic Information Science (GIScience 2008), Park City, Utah.
- Goldberg, D. W., Cockburn, M. G., & Wilson, J. P., Open source web tools for manual geocode correction. Annual Meeting and Workshops of the North American Association of Central Cancer Registries, Denver, Colorado.
- Tatalovich, Z., Wilson, J. P., & Avol, E., Estimation of traffic volumes on local road networks to support assessment of traffic-related exposure to pollutants. Annual Meeting of the Association of American Geographers, Boston, Massachusetts
- Sheng, J., & Wilson, J. P., Effects of watershed aggregation on a water quality model in an urban landscape. Annual Meeting of the Association of American Geographers, Boston, Massachusetts.
- Goldberg, D. W., **Wilson, J. P.,** & Knoblock, C. A., *Enabling dynamic tools for modeling, analyzing, and integrating data in a dynamically changing world and data environment.* Annual Meeting of the Association of American Geographers, Boston, Massachusetts.
- Sister, C. E., Boone, C. G., **Wilson, J. P.,** & Wolch, J., *Park access and equity in Los Angeles, Phoenix and Baltimore.* Annual Meeting of the Association of American Geographers, Boston, Massachusetts.
- 2007 Swift, J. N., Ghaemi, P., Longcore, T. R., **Wilson, J. P.,** Wolch, J., *Decision-support web tools for the Green Visions Plan for twenty-first century southern California*. Annual Meeting of the Association of American Geographers, San Francisco, California.
- Wilson, J. P., GIScience and disaster management: Research prospects and challenges. Annual Meeting of the Association of American Geographers, San Francisco, California.
- Wilson, J. P., Distance learning and GIScience. Annual Meeting of the Association of American Geographers, San Francisco, California.
- Wilson, J. P., Using GIS and environmental modeling to build sustainable communities.

 International Association of Science and Technology for Development International Conference on Environmental Modeling & Simulation, Honolulu, Hawaii.
- Wilson, J. P., Lam, C. S., Deng, Y.-X., & Aggett, G. A., From precipitation to streamflow: Simulating the movement of water within landscapes. International Symposium on Terrain Analysis & Digital Terrain Modelling, Nanjing, China.

- Wilson, J. P., Geospatial preparedness from the non-governmental organization perspective. Joint Meeting of the U.S. Geological Survey & U.S. Department of Homeland Security on Geospatial Preparedness for Natural Disasters, Reston, Virginia.
- Wilson, J. P., Swift, J. N., & Tatalovich, Z., *Place-based decision support for spatial and temporal transference of risk and hazards*. National Science Foundation Human and Social Dynamics Program Principal Investigator Meeting, Washington, D.C.
- Shankardass, K., McConnell, R., Milam, J., Tatalovich, Z., **Wilson, J. P.,** & Jerrett, M., *The association between contextual socio-economic factors and prevalent asthma in a cohort of southern California school children*. Annual Meeting of the American Thoracic Society, San Diego, California.
- Tatalovich, Z., & Wilson, J. P., Reconstructing spatio-temporal patterns of social vulnerability, Los Angeles County, 1940-2000. Annual Meeting of the Association of American Geographers, Chicago, Illinois.
- Sister, C. E., Linder, A., Seymour, M., Byrne, J., Wilson, J. P., & Wolch, J., *Park and open space resources in southern California*. Annual Meeting of the Association of American Geographers, Chicago, Illinois.
- Sayre, J., Sheng, J., **Wilson, J. P.,** & Devinny, J., *Prospects for stream and watershed restoration in rapidly urbanizing landscapes.* Annual Meeting of the Association of American Geographers, Chicago, Illinois.
- Sheng, J., Chen, N., Sayre, J., **Wilson, J. P.,** & Devinny, J., *Evaluating the quality of the National Hydrology Dataset for watershed assessments in southern California*. Annual Meeting of the Association of American Geographers, Chicago, Illinois.
- Wilson, J. P., *The Green Visions Plan for 21st century southern California*. Annual Meeting of the Association of American Geographers, Chicago, Illinois.
- Wilson, J. P., Geospatial information science and technology: An integrating force in disaster preparedness, Mitigation and Recovery. University Consortium for Geographic Information Science Winter Meeting, Washington, D.C.
- Wilson, J. P., Role of interpolation in GIS-based climate impact studies. National Center for Atmospheric Research (NCAR) GIS in Weather, Climate & Impacts Workshop, Boulder, Colorado.
- Wilson, J. P., GIS in the city: A GISer's guide to advancing policy and practice. University Consortium for Geographic Information Science Summer Assembly, Jackson Hole, Wyoming.
- 2005 Goldberg, D. W., Knoblock, C. A., & Wilson, J. P., Extracting geographic features from the Internet to automatically build detailed regional gazetteers. Second Annual Electronic Cultural Atlas Initiative Congress, Shanghai, China.
- Sheng, J., Deng, Y. X., & **Wilson, J. P.**, *Landform characteristics of household sites in mountainous areas.* Annual Meeting of the Association of American Geographers, Denver, Colorado.

- Tatalovich, Z., Wilson, J. P., & Cockburn, M. G., GIS analysis of average cumulative sun exposure and melanoma risk. Annual Meeting of the Association of American Geographers, Denver, Colorado
- 2005 Lam, C. S., Longcore, T. R., & Wilson, J. P., Analysis of butterfly survey data and methodology from San Bruno Mountain Habitat Conservation Plan (1982–2000). Annual Meeting of the Association of American Geographers, Denver, Colorado.
- 2005 Chen, N., & Wilson, J. P., Evaluation of two GIS-based models for estimating the energy savings associated with shade trees. Annual Meeting of the Association of American Geographers, Denver, Colorado.
- Sister, C. E., & **Wilson, J. P.**, *Impacts of land use on reef health*. Annual Meeting of the Association of American Geographers, Denver, Colorado.
- Deng, Y. X., **Wilson, J. P.,** Chabukswar, R., & Romstad, B., *Multi-scale delineation of mountain peaks as fuzzy spatial objects.* Annual Meeting of the Association of American Geographers, Denver, Colorado.
- Wilson, J. P., Knoblock, C. A., & Shahabi, C., Rapid data integration in response to unexpected events. University Consortium for Geographic Information Science Winter Meeting, Washington, D.C.
- Deng, Y. X., & **Wilson, J. P.,** Effects of attribute selection on fuzzy k-means landform classifications. Annual Meeting of the Association of American Geographers, Philadelphia, Pennsylvania.
- 2004 Lam, C. S., Deng, Y. X., & Wilson, J. P., Comparison of flow routing algorithms used in geographic information systems. Annual Meeting of the Association of American Geographers, Philadelphia, Pennsylvania.
- Tatalovich, Z., **Wilson, J. P.,** McConnell, R., & Milam, J., *Impact of definitional issues on estimates of community variables in epidemiological research.* Annual Meeting of the Association of American Geographers, Philadelphia, Pennsylvania.
- Sister, C. E., & **Wilson, J. P.,** *Predicting coral reef health: Does distance matter?* Annual Meeting of the Association of American Geographers, Philadelphia, Pennsylvania.
- Bauer, B., Lorang, M., Sherman, D., Ellis, J., McDermott, J., & Wilson, J. P., Delta levee erosion: Long-term monitoring and shoreline processes. CALFED Science Conference, Sacramento, California.
- Wilson, J. P., Delineating landscapes using terrain analysis and fuzzy classification methods. Ian Moore Terrain Analysis Symposium, Australian National University, Canberra, Australia.
- Wilson, J. P., Faculty incentive and institutional support leading to curricula transformation. Sixth Annual Conference on Teaching, Learning, & Technology, University of Southern California, Los Angeles, California.
- 2003 Lam, C. S., **Wilson, J. P.,** Holmes-Wong, D., & Shoaf, W., *Building a geospatial browser and gazetteer for the Los Angeles Digital Archive.* Annual Meeting of the Association of American Geographers, New Orleans, Louisiana.

- 2003 Li, C. Q., Longcore, T. R., & Wilson, J. P., Quantifying the benefits of nature's services in a dense urban area. Annual Meeting of the Association of American Geographers, New Orleans, Louisiana.
- Wilson, J. P., Terrain analysis tools for routing flow and calculating upslope catchment areas. Symposium on Terrain Analysis for Water Resource Applications, Austin, Texas.
- Wilson, J. P., The growth visioning exercise results. Annual Urban Land Institute-Los Angeles & University of Southern California Lusk Center for Real Estate Summit, Los Angeles, California.
- Wilson, J. P., Where can the growth go? Annual Urban Land Institute-Los Angeles & University of Southern California Lusk Center for Real Estate Summit, Los Angeles, California.
- 2002 Lam, C. S., **Wilson, J. P.,** & Holmes-Wong, D., *Building a neighborhood-specific gazetteer for a digital archive.* Twenty-second International Esri User Conference, San Diego, California.
- Wilson, J. P., Terrain-based descriptions of earth surface and atmospheric processes. Intergraph Geospatial World User Community Conference, Atlanta, Georgia.
- Wilson, J. P., GIS capabilities and epidemiological applications. University of Southern California GIS & Spatial Statistics in Epidemiology Workshop, Pasadena, California.
- 2002 Longcore, T. R., & Wilson J. P., Applicability of CITYgreen urban ecosystem analysis software to a dense urban neighborhood. Annual Meeting of the Association of American Geographers, Los Angeles, California.
- Wilson, J. P., Digital terrain modeling: Future research issues. Ordnance Survey Height Workshop, Loughborough, United Kingdom.
- Wilson, J. P., *The Information System for Los Angeles Project*. Annual Conference and Joint Meetings of Pacific Neighborhood Consortium, University of California, Berkeley, California.
- 1999 Wilson, J. P., Burrough, P. A., van Gaans, P., & Hansen, A. J., Fuzzy k-means classification of digital elevation models as an aid to biodiversity assessments. Annual Meeting of the Association of American Geographers, Honolulu, Hawaii.
- 1999 **Wilson, J. P.,** *Water resource applications of GIS.* University Consortium for Geographic Information Science Summer Assembly, Minneapolis-St. Paul, Minnesota.
- Hunt, L., **Wilson, J. P.,** & Roseman, C., *ISLA: An integrated digital archive for southern California.* Annual Meeting of the Association of American Geographers, Boston, Massachusetts.
- 1997 Stillman, S. T., **Wilson, J. P.,** Daly, C., Hutchinson, M. F., & Thornton, P., *Evaluating GIS-based simulations of precipitation: Methods, problems & performance.* Joint Meeting of Institute of the Australian Geographers and New Zealand Geographical Society, Hobart, Australia.
- 1997 Stillman, S. T., **Wilson, J. P.,** Daly, C., Hutchinson, M. F., & Thornton, P., *Evaluating GIS-based simulations of precipitation: Methods, problems & performance.* Second Australian Workshop in Environmental Applications of GIS, Kiola, Australia.

- 1997 Wilson, J. P., Current and future trends in the development of integrated technologies for assessing non-point source pollution. Joint American Geophysical Union Chapman-Soil Science Society of America Outreach Conference on Application of GIS, Remote Sensing, Geostatistics, & Solute Transport Modeling to the Assessment of Non-point Source Pollution in the Vadose Zone, Riverside, California.
- 1997 **Wilson, J. P.,** Decision support systems for precision agriculture. Remote Sensing for Precision Agriculture Symposium, Annual Meeting of the Soil Science Society of America, Anaheim, California.
- 1996 **Wilson, J. P.,** Role & scope of the National Spatial Data Infrastructure: The local government perspective. Ninth Annual Montana GIS Conference, Missoula, Montana.
- 1996 **Wilson, J. P.,** & Petch, J., *UNIGIS distance learning diploma, Technology and user needs.* Second International Conference on GIS and Higher Education, Baltimore, Maryland.
- 1996 Stillman, S. T., **Wilson, J. P.,** Daly, C., Hutchinson, M. F., & Thornton, P., *Comparison of ANUSPLIN, MTCLIM-3D, and PRISM precipitation estimates.* Third International Conference Integrating GIS and Environmental Modeling, Santa Fe, New Mexico.
- 1996 **Wilson, J. P.,** GIS-based land surface/subsurface modeling: New potential for new models? Third International Conference Integrating GIS & Environmental Modeling, Santa Fe, New Mexico.
- 1996 Stillman, S. T., & **Wilson, J. P.,** Comparison of ANUSPLIN, MTCLIM-3D and PRISM models for estimating mean annual and monthly precipitation. Ninth Annual Montana GIS Conference, Missoula, Montana.
- Wilson, J. P., The role of GIS software and personnel in automating local government operations. United Nations & Organization of Islamic Capital Cities Conference on GIS, Sustainability, & the Environment, Cairo, Egypt.
- Wilson, J. P., & Gallant, J. C., Terrain-based approaches to environmental resource evaluation.

 Annual Meeting of the British Geomorphology Research Group, Cambridge, United Kingdom.
- Wilson, J. P., Terrain-based methods for predicting climatic, hydrologic & biological indices.

 Consortium for Study of North Temperate Montane Ecosystems Workshop on Biodiversity in Montane Ecosystems: Identifying Sources & Designing Exchange Protocols, Bozeman, Montana.
- 1995 **Wilson, J. P.,** Spatial models of land use patterns and soil erosion: The role of GIS. GISDATA Specialist Meeting on GIS & Spatial Modeling: New Potential for New Models, Stockholm, Sweden.
- Inskeep, W. P., Wraith, J., **Wilson, J. P.,** Snyder, R. D., & Macur, R., *Input parameter and model resolution effects on solute transport predictions.* ASA-CSSA-SSSA Bouyoucos Conference, Riverside, California.
- Wilson, J. P., Inskeep, W. P., Wraith, J., & Snyder, R. D., GIS-based solute transport modeling applications: Scale effects & estimation methods. ASA-CSSA-SSSA Bouyoucos Conference, Riverside, California.

- 1995 Stillman, S. T., & Wilson, J. P., Comparison of ANUSPLIN precipitation surfaces & hand-contoured maps in southwestern Montana and Wyoming. Eighth Annual Montana GIS Conference, Helena, Montana.
- Wheatley, J. M., Wilson, J. P., & Nielsen, G. A., Using terrain attributes to improve the accuracy of Landsat remote sensing vegetation maps. Eighth Annual Montana GIS Conference, Helena, Montana.
- Magnant, J., Beland, D., & Wilson, J. P., Use of GIS for critical lands strategic planning in Bozeman. Eighth Annual Montana GIS Conference, Helena, Montana.
- Wilson, J. P., GIS-based solute transport modeling applications: Scale effects & estimation methods. Eighth Annual Montana GIS Conference, Helena, Montana.
- Repetto, P. L., & Wilson, J. P., Sensitivity of RUSLE outputs to GIS methods used to calculate topographic inputs. Eighth Annual Montana GIS Conference, Helena, Montana.
- 1995 Gillett, L. E., **Wilson, J. P.,** & Kemp, W. P., Spatial variability of grassland NDVI values by ecoregion and land cover type in the northern Great Plains. Eighth Annual Montana GIS Conference, Helena, Montana.
- 1995 Wilson, J. P., Custer, S. G., Farnes, P., Landenburger, L. A., & Snyder, R. D., *Comparison of hand-contoured and computer-splined precipitation estimates in Montana*. Annual Meeting of the Association of American Geographers, Chicago, Illinois.
- 1994 Wilson, J. P., Tips for writing successful National Science Foundation Instrumentation and Laboratory Improvement Program Grant proposals. Annual Meeting of Association of American Geographers, San Francisco, California.
- Wilson, J. P., Mapping soil and terrain attributes for site-specific farm management. Montana Interagency Soil Survey Conference, Bozeman, Montana.
- 1994 Custer, S. G., Snyder, R. D., Farnes, P., & Wilson, J. P., Updated mean annual precipitation data (1961-90) for the Bozeman and Billings 1x2° topographic quadrangles: A comparison of hand- and computer-contoured results. Annual Meeting of the Montana Division, American Water Resources Association, Bozeman, Montana.
- 1994 Wilson, J. P., & Inskeep, W. P., Using the Arc/Info GIS and CMLS solute transport model for predicting pesticide movement into ground water. Annual Meeting of the Montana Division, American Water Resources Association, Bozeman, Montana.
- Wilson, J. P., Spangrud, D. J., Landon, M., Jacobsen, J. S., & Nielsen, G. A., *Mapping soil attributes for site-specific management of a Montana field.* Society for Photo-Optical Instrumentation Engineers International Symposium on Photonics for Industrial Applications, Boston, Massachusetts.
- 1994 Landon, M., Jacobsen, J. S., **Wilson, J. P.,** & Nielsen, G. A., *Soil and terrain attributes for evaluation of field-scale nutrient leaching potentials.* Annual Meeting of the American Society of Agronomy, Seattle, Washington.

- 1994 Custer, S. G., Farnes, P., & Wilson, J. P., Comparison of hand-contoured and computer-splined precipitation estimates in the mountains & plains of Montana. Annual Meeting of the Montana Division, American Water Resources Association, Missoula, Montana.
- 1994 **Wilson, J. P.,** *New spatial interpolation methods.* Sixth Annual Montana GIS Conference, Kalispell, Montana.
- Wilson, J. P., *The expanding role of GIS in undergraduate education at Montana State University*. Annual Meeting of the Association of American Geographers, San Francisco, California.
- Wilson, J. P., Spangrud, D. J., Jacobsen, J. S., Nielsen, G. A., & Tyler, D., Sensitivity of computed terrain attributes to the number & pattern of GPS-derived elevation data. Second International Conference on Site-Specific Management for Agricultural Systems, Minneapolis-St. Paul, Minnesota.
- 1993 Wilson, J. P., Shovic, H. W., Moore, I. D., Landenburger, L. A., & Snyder, R. D., *Modeling landforms & soils in Yellowstone National Park*. Thirteenth International Esri User Conference, Palm Springs, California.
- 1993 **Wilson, J. P.,** & Forer, P., *Taking Instruction beyond the GIS Laboratory*. Thirteenth International Esri User Conference, Palm Springs, California.
- 1993 Lorbeer, S., Jacobsen, J. S., **Wilson, J. P.,** & Nielsen, G. A., *Using a soil-crop yield database to evaluate a productivity index model for small grains in Montana*. Great Plains Soil Fertility Conference, Denver, Colorado.
- Wilson, J. P., Outer space technology for down-to-earth cities: An overview of GIS/GPS applications.

 Annual Meeting of the Montana League of Cities and Towns, Lewistown, Montana.
- 1992 Lorbeer, S., Jacobsen, J. S., **Wilson, J. P.,** & Nielsen, G. A., *A soil productivity index model for small grains in Montana*. Annual Meeting of the American Society of Agronomy, Minneapolis-St. Paul, Minnesota
- 1992 Jersey, J. K., Jacobsen, J. S., Moore, I. D., Wilson, J. P., & Nielsen, G. A., Evaluation of a DEM-based topographic attribute model for a semi-arid, mountainous catchment. Annual Meeting of American Society of Agronomy, Minneapolis-St. Paul, Minnesota.
- Moore, I. D., Clesiolka, C. A., & Wilson, J. P., Soil erosion prediction & GIS: Linking theory and practice. International Conference on Application of Geographic Information Systems to Soil Erosion Management, Taiyuan, China.
- Wilson, J. P., Inskeep, W. P., Rubright, P., Jacobsen, J. S., Snyder, R. D., & Cooksey, D., Coupling geographic information systems & models for county-scale ground water pollution assessments. Annual Meeting of the Association of American Geographers, San Diego, California.
- Wilson, J. P., Snyder, R. D., Ryan, C. M., Inskeep, W. P., Jacobsen, J. S., & Rubright, P., Coupling geographic information systems & models for county-scale ground water pollution assessments. Twelfth International Esri User Conference, Palm Springs, California.
- 1992 **Wilson, J. P.,** GIS education & training opportunities at Montana State University. Twelfth International Esri User Conference, Palm Springs, California.

- 1992 Wilson, J. P., Terrain-based models for the distributed hydrological & erosional modeling of landscapes. Montana Interagency Soil Survey Conference, Bozeman, Montana.
- Wilson, J. P., Inskeep, W. P., Rubright, P., Cooksey, D., Jacobsen, J. S., & Snyder, R. D., Coupling geographic information systems & models for weed control and ground water protection.
 Annual Meeting of the Weed Science Society of America, Orlando, Florida.
- 1992 McEachern, K., Jacobsen, J. S., Nielsen, G. A., & Wilson, J. P., Use of soil and terrain attributes for predicting soil fertility. Great Plains Soil Fertility Conference, Denver, Colorado.
- 1991 **Wilson, J. P.,** *When is a GIS Needed?* Fourth Annual Montana GIS Conference, Bozeman, Montana.
- 1991 McEachern, K., Jacobsen, J. S., Nielsen, G. A., & Wilson, J. P., Digital elevation model attributes for predicting soil fertility. Annual Meeting of the American Society of Agronomy, Denver, Colorado.
- Rubright, P., Jacobsen, J. S., Inskeep, W. P., Nielsen, G. A., & Wilson, J. P., GIS-based evaluations of pesticide ground water contamination potential. Annual Meeting of the American Society of Agronomy, Denver, Colorado.
- Moore, I. D., Turner, K., **Wilson, J. P.,** Jenson, S., & Band, L. E., *GIS & land surface-subsurface process modeling*. International Conference/Workshop on Integrating Geographic Information Systems and Environmental Modeling, Boulder, Colorado.
- Wilson, J. P., Environmental change in the Lake Simcoe Basin, 1800–1990. Lake Simcoe Conference and Festival, Baldwin, Ontario.
- 1991 Wilson, J. P., Ladson, A. R., & Moore, I. D., Comparison of grid, TIN, and contour-based digital elevation models for terrain analysis. Annual Meeting of the Association of American Geographers, Miami, Florida.
- 1990 **Wilson, J. P.,** Contribution of soil survey to soil erosion & crop productivity models. Montana Interagency Soil Survey Conference, Bozeman, Montana.
- Wilson, J. P., GIS education opportunities at Montana State University. Third Annual Montana GIS Conference, Missoula, Montana.
- 1990 **Wilson, J. P.,** GIS research projects at Montana State University. Third Annual Montana GIS Conference, Missoula, Montana.
- 1990 **Wilson, J. P.,** Jacobsen, J. S., & Nielsen, G. A., *Agricultural applications of GIS*. Annual Meeting of Montana Agricultural Experiment Station and Extension Service, Bozeman, Montana.
- 1990 **Wilson, J. P.,** & Jacobsen, J. S., *Agricultural applications of GIS.* Annual Meeting of Montana Wheat and Barley Growers Association, Great Falls, Montana.
- 1990 Seney, J., & **Wilson, J. P.,** Erosional impact of hikers, horses, off-road bicyclists, & motorcycles on mountain trails. Annual Meeting of the Association of American Geographers, Toronto, Ontario.
- Moore, I. D., Grayson, R. D., & **Wilson, J. P.,** Runoff modeling in complex three-dimensional terrain. International Conference on Water Resources in Mountainous Regions & Thirty-second Congress of International Association of Hydrogeologists, Lausanne, Switzerland.

- 1990 Ladson, A. R., Moore, I. D., & Wilson, J. P., Contour-& grid-based methods of terrain representation: Scale effects. Fall Meeting of the American Geophysical Union, San Francisco, California.
- 1990 Ladson, A. R., & **Wilson, J. P.,** *Terrain modeling techniques.* Precision Farming in the 90's Workshop, Power, Montana.
- 1990 Ladson, A. R., **Wilson, J. P.,** & Moore, I. D., *Landscape analysis and modeling using digital terrain analysis.* Annual Meeting of the Association of American Geographers, Toronto, Ontario.
- 1990 **Wilson, J. P.,** GIS applications combining soil surveys and simulation models. Montana Interagency Soil Survey Conference, Bozeman, Montana.
- 1989 **Wilson, J. P.,** Sandor, S., Nielsen, G. A., & McConnell, S., *A productivity index model for Montana soils.* Annual Meeting of the Western Soil Science Society, Bozeman, Montana.
- 1989 Pings, J. C., & **Wilson, J. P.**, *Quantifying soil erosion and deposition using cesium-137 near Carter, Montana*. Annual Meeting of the Association of American Geographers, Baltimore, Maryland.
- 1988 **Wilson, J. P.,** & Nielsen G. A., *Quantifying the effects of erosion on soil productivity in Montana.*Annual Meeting of Association of American Geographers, Phoenix, Arizona.
- Wilson, J. P., & Nielsen, G. A., *Quantifying the effects of erosion on soil productivity in Montana*. Twenty-sixth Congress of International Geographical Union, Sydney, Australia.
- 1988 **Wilson, J. P.,** *GIS Applications in city and county government.* Annual Meeting of Montana Association of Planners, Kalispell, Montana.
- 1988 **Wilson, J. P.,** *Modeling the impacts of erosion on crop productivity.* Montana Interagency Soil Survey Conference, Bozeman, Montana.
- 1988 **Wilson, J. P.,** *Agricultural applications of GIS.* First Annual Montana GIS Annual Conference, Helena, Montana.
- Gerhart, K. E. S., & Wilson, J. P., Using the Productivity Index (PI) model to generate county-wide soil erosion vulnerability maps in Montana. Annual Meeting of the Great Plains-Rocky Mountain Division, Association of American Geographers and Prairie Division, Canadian Association of Geographers, Regina, Saskatchewan.
- 1987 Pings, J. C., & Wilson, J. P., Quantifying soil erosion and deposition in a small Montana watershed using cesium-137. Annual Meeting of the Great Plains-Rocky Mountain Division, Association of American Geographers and Prairie Division, Canadian Association of Geographers, Regina, Saskatchewan.
- Ruth, J. H., & **Wilson, J. P.,** Factors influencing streambank erosion and channel migration on the North Fork Flathead River. Annual Meeting of the Great Plains-Rocky Mountain Division, Association of American Geographers and Prairie Division, Canadian Association of Geographers, Regina, Saskatchewan.
- 1986 Gerhart, K. E. S., & Wilson, J. P., Modeling the effects of erosion on soil productivity in Cascade County, Montana. Annual Meeting of the Soil and Water Conservation Society of America, Billings, Montana.

- 1986 Wilson, J. P., & Gerhart, K. E. S., Information requirements for non-point source pollution management models. Annual Meeting of the Soil and Water Conservation Society of America, Billings, Montana.
- 1986 **Wilson, J. P.,** *Soil productivity losses from erosion in Montana.* Annual Meeting of the Association of American Geographers, Portland, Oregon.
- Ruth, J. H., & Wilson, J. P., Streambank erosion and controls on the North Fork Flathead River.

 Annual Meeting of the Montana Division, American Water Resources Association, Bozeman,
 Montana.
- 1986 **Wilson, J. P.,** Critique of regional soil loss assessments based on the universal soil loss equation. Annual Meeting of the Association of American Geographers, Minneapolis-St. Paul, Minnesota.
- 1984 **Wilson, J. P.,** *Phosphorus loading trends in the Lake Simcoe-Couchiching Basin, Ontario, Canada, 1800–1980.* Annual Meeting of the Association of American Geographers, Washington, D.C.
- 1983 **Wilson, J. P.,** Estimating the universal soil loss equation's topographic factor for watersheds. Annual Meeting of the Ontario Division, Canadian Association of Geographers, Hamilton, Ontario.
- 1983 **Wilson, J. P.,** Information requirements for environmental management where soil erosion contributes to the downstream pollution of rivers and lakes. Annual Meeting of the Soil Conservation Society of America, Hartford, Connecticut.
- 1980 **Wilson, J. P.,** Liverman, D., & White, A. V., *The Mississauga evacuation: A study of public response and attitudes.* Annual Meeting of the Canadian Association of Geographer, Montreal, Quebec.

Webinars and Videos

- Wilson, J. P., Vos, R., & Leonard, V., An introduction to the GIST graduate programs and my new book on environmental applications of digital terrain modeling (Webinar). Geographic Information Science and Technology Programs, University of Southern California.
- Wilson, J. P., & Ahlqvist, O., All you need to know about UCGIS's new GIS&T Body of Knowledge (Webinar). Directions Magazine.
- Wilson, J. P., Summers, R., & Hitt, A. L., *Developing geospatial leaders* (Webinar). Geographic Information Science and Technology Programs, University of Southern California.
- Wilson, J. P., *Ask the Director: USC GIST student webinar*. Geographic Information Science and technology Programs, University of Southern California.
- Wilson, J. P., Escobedo, L.A., & VoPham, T., Advancing public health with geospatial analysis (Webinar). Geographic Information Science and Technology Graduate Programs, University of Southern California.
- Wilson, J. P., *The power of maps*. Connecting with USC Scholars (Video and "Hands-On" Walkability Assignment). Center for Scholarly Technology, University of Southern California.
- 2014 Kumar, S., & **Wilson, J. P.,** *Introducing geoHealth* (Webinar). Master of Public Health, Keck School of Medicine, University of Southern California.

- Wilson, J. P., An introduction to the new graduate certificate programs (Webinar). Geographic Information Science and Technology Graduate Programs, University of Southern California.
- Wilson, J. P., *Spatial sciences* (Video). Dana and David Dornsife College of Letters, Arts and Sciences, University of Southern California.
- Wilson, J. P., Ruddell, D., & Lee, S. J., *Spatial Sciences Institute* (Video). Dana and David Dornsife College of Letters, Arts and Sciences, University of Southern California.
- DiBiase, D., Foster, K., Manone, M., **Wilson, J. P.**, Miskowiak, D., & Phillips, C. G., *Exploring the diversity of opportunities in geodesign education* (Webinar). Directions Magazine.
- Wilson, J. P., *Introducing the Spatial Sciences Institute* (Webinar). Geographic Information Science and Technology Graduate Programs, University of Southern California.
- Wilson, J. P., Goodchild, M. F., Goldberg, D. W., Wittner, E., & Kemp, K. K., *Creating Enduring spatial skills that lead to job opportunities* (Webinar). Directions Magazine.
- Wilson, J. P., General information session: GIST programs (Webinar). Geographic Information Science and Technology Graduate Programs, University of Southern California.
- Wilson, J. P., General information session: GIST programs (Webinar). Geographic Information Science and Technology Graduate Programs, University of Southern California.
- Wilson, J. P., *Mapping on Catalina Island, California* (Video). Geographic Information Science and Technology Graduate Programs, University of Southern California.

Invited Lectures, Seminars, and Talks

- The current and future states of geographic information science, with and without geodesign. Institute of Remote Sensing and Geographical Information Systems, School of Earth and Space Sciences, Peking University, Beijing, China.
- 2019 *Geodesign as a force for good.* College of Architecture and Urban Planning, Tongji University, Shanghai, China.
- 2019 PM2.5 dynamics in global megacities based on long-term remotely sensed observations, Spatial Sciences Institute, University of Southern California, Los Angeles, California (with L. Zhang and B. MacDonald)
- 2018 *Geoanalytics*, 1988-2018-2048, Department of Geoinformatics and Z_GIS Colloquium and Celebration, University of Salzburg, Salzburg, Austria
- 2018 Effects of increased home size on green cover in Los Angeles County's single-family neighborhoods. Los Angeles County National History Museum, Los Angeles, California (with S.-J. Lee, C. Rich, and T.R. Longcore)
- 2018 Mansionization and tree loss. The Huntington-USC Institute on California and the West, USC Sidney Harman Academy for Polymathic Study, and USC Libraries Collections Convergence Initiative, Los Angeles, California (with S.-J. Lee, C. Rich, and T. R. Longcore)
- 2018 Replicability and Reproducibility in Geomorphometry, Information Sciences Institute, University of Southern California

- 2018 The Geography of Life and Death, Keck Research Council, Keck School of Medicine of USC, Los Angeles, California
- 2017 Spatial as an Enabling Science, University of Wyoming, Laramie, Wyoming
- 2017 Gentrification, Densification, and Why the Rent Is Too Damn High (Panel Presentation and Discussion), Jesse M. Unruh Institute of Politics, University of Southern California
- 2017 Full-time Dornsife NTT Teaching Faculty: A Program to Mentor and Answer Your Questions (Panel Presentation and Discussion), Dana and David Dornsife College of Letters, Arts and Sciences, University of Southern California
- 2017 Population, Health and Place. USC Alumni Association Monthly Meeting, San Francisco, California
- 2016 Reactions to the Keynote Address by Jack Dangermond, President, Esri (Panel discussion). Institute for Geographical Sciences & Natural Resources Research, Beijing, China
- 2016 Conducting Place-based Research in a World Awash with Geospatial Data and Tools. Earth Surface Modeling Workshop, Institute of Geographical Sciences & Natural Resources Research, Chinese Academy of Sciences, Beijing, China
- 2016 Dynamic Modeling, Geostatistics, and Fuzzy Classification: New Sneakers for a New Geography?

 Department of Geography, University of Connecticut, Storrs, Connecticut
- 2016 Geography and the Spatial Sciences: Deploying the Spatial Sciences to Support Geographic Education and Discovery. Department of Geography, University of Miami, Miami, Florida
- 2016 What Makes Spatial Special? Department of Sociology, University of Southern California
- 2015 So You're Interested in the Spatial Sciences? Dana and David Dornsife College of Letters, Arts and Sciences, University of Southern California
- 2015 The Science of Where: Maps, Models, and Storytelling in the 21st Century. Admission Staff Training, University of Southern California
- 2015 Geographic Information Processing (Panel Presentation and Discussion). Workshop on Academic Computing, University of Southern California
- 2015 Geospatial Health Research and Teaching. Southern California Environmental Health Sciences Center, University of Southern California
- 2014 Placemaking, Maps, and Geodesign: Spatial @USC. Urban Land Institute-Los Angeles Advisory Board Meeting
- 2014 The Science of Where: Maps, Models and Storytelling, Parkside Arts and Humanities Residential College, University of Southern California
- 2014 Full-time Dornsife NTT Teaching Faculty: A Program to Mentor and Answer Your Questions (Panel Presentation and Discussion), Dana and David Dornsife College of Letters, Arts and Sciences, University of Southern California
- 2014 GIS, Spatial Analysis and Religion, School of Religion, University of Southern California

- 2013 Mapping and Classifying Biophysical Landscape Attributes, Biodiversity and Environment Research Collaboration Group, University of Southern California
- 2013 UCGIS Geographic Information Science & Technology Body of Knowledge 2.0 Project (Short Presentation, Question & Answer Session), Esri GIS Education Community Advisory Board, Esri International User Conference/Education User Conference, San Diego, California
- 2013 Geospatial Workforce Development (Panel Presentation and Discussion), Center for Business GIS and Spatial Analysis, University of Redlands
- 2013 Advice and Ascent: A Program to Mentor NTT Teaching Faculty (Panel Presentation and Discussion), Dana and David Dornsife College of Letters, Arts and Sciences, University of Southern California
- 2013 The Geospatial Revolution, School of Surveying, University of Otago, New Zealand
- 2013 GIS and Spatial Analysis, Department of Geography, University of Canterbury, New Zealand
- 2013 GIS, Spatial Analysis, and Religion, School of Religion, University of Southern California
- 2012 Place-Based Models of Instruction: Introduction to GIS @ USC and the Spatial Sciences Institute, Faculty Forum, Center for Scholarly Technology, University of Southern California
- 2012 GIS and Location Analytics, Marshall School of Business, University of Southern California
- 2012 Spatial 2.0: Spatial Literacy, Analysis, Modeling, and Visualization, School of Architecture, University of Southern California
- 2012 GIS and Environmental Applications, Centre for Geoinformatics, School of Geography and Geosciences, University of St. Andrews, Scotland
- 2012 How Can We Reshape GIS Education to Serve Future Needs? Center for Spatial Studies, University of California, Santa Barbara
- 2011 Geodesign: Coupling GIS with Design Thinking to Identify and Evaluate Alternative Futures, Laboratory for Information Engineering in Surveying, Mapping and Remote Sensing, Wuhan University, China
- The Spatial Sciences: Connecting Society, Environment, and Health. Department of Geography, University of Wisconsin, Milwaukee
- 2011 The Spatial Sciences and Their Role in Environmental Studies, Wrigley Institute of Environmental Studies Advisory Board Meeting
- 2011 *Geodesign: Designing Our Future in an Anthropogenic World*, Institute of Geographical Sciences and Natural Resources Research, Chinese Academy of Sciences, Beijing, China
- 2010 The Role of the Spatial Sciences in the Modern Research University, Department of Sociology, University of Southern California
- 2010 Surface Modeling: The Current State of the Art, Enduring Challenges, and New Opportunities, Institute of Geographical Sciences and Natural Resources Research, Chinese Academy of Sciences, Beijing, China

2010	GIS, Spatial Analysis, and Spatial Thinking: Essential Tools for the Modern Geoscientist's Toolbox, Department of Earth Sciences, University of Southern California
2010	Maps as Representations of the World, USC Dana and David Dornsife College of Letters, Arts and Sciences and the Natural History Museum of Los Angeles County
2009	Spatial Science @ USC, Los Angeles County eGIS Working Group
2009	Green Visions Plan Watershed Modeling and Analysis Tools, Los Angeles District, Regional Water Quality Control Board
2009	Green Visions Plan Spatial Decision Support Tools, Los Angeles County Department of Public Works
2008	Key Green Visions Planning Tools, Greater Los Angeles County Region Integrated Regional Watershed Management Plan (IRWMP) Leadership Committee
2006	Fusing Computer Science and Geography: Research Advances and Opportunities in Geographic Information Science, Department of Computer Science, University of Southern California
2006	Using GIS, Spatial Analysis, and Maps to Improve Urban Places and Spaces, Institute for Quantitative Social Science, Harvard University
2005	GIS, Spatial Analysis, and Maps: Essential Tools for the Modern Urban Scholar's Toolbox, Department of Geography, University of South Carolina
2004	The Green Visions Plan for 21st Century Southern California, School of Architecture, University of Southern California
2004	GIS, Spatial Analysis, and Maps: Essential Tools for the New Urban Scholar's Toolbox?, Lusk Center for Real Estate, Marshall School of Business and School of Policy, Planning, and Development, University of Southern California
2002	Parks and Park Funding in Los Angeles: An Equity Mapping Analysis, Commission for Children, Youth, and Their Families, City of Los Angeles
2001	Environmental Modeling with GIS, School of Natural Resources and Environment, University of Michigan
2001	Digital Terrain Analysis and Modeling, School of Natural Resources and Environment, University of Michigan
2000	The Integrated Digital Archive-Los Angeles Project, Department of Anthropology, University of California, Berkeley
2000	Spatial Extensions of Environmental Modeling, Department of Geography, University of California, Los Angeles
2000	From Outer Space to Personal Spaces, Department of Biological Sciences, University of Southern California
1998	Evaluating GIS-based Simulations of Precipitation: Methods, Problems and Performance, Department of Geography, University of Auckland

1998	Evaluating GIS-based Simulations of Precipitation: Methods, Problems and Performance, Department of Geography, University of Waikato
1998	Dynamic Modeling, Geostatistics, and Fuzzy Classification: New Sneakers for a New Geography? Department of Geography, University of Auckland
1998	Comparisons of Spatially Distributed Precipitation Models, Department of Physical Geography, University of Utrecht
1997	Simulating Water Quality Problems with GIS-based Land Surface/Subsurface Models, Department of Geography, University of California, Santa Barbara
1996	Development and Testing of Terrain-based Methods for Environmental Characterization and Modeling, Department of Geography, Michigan State University
1995	Terrain-based Methods for Conducting Environmental Resource Surveys, Department of Geography, University of Southern California
1995	Terrain-based Approaches to Environmental Resource Evaluation, Greater Yellowstone Coordinating Committee, U.S. Department of Agriculture-Forest Service and U.S. Department of Interior-National Park Service
1995	ArcView GIS Overview and Demonstration, Bozeman City-County Planning Board
1995	The Power of Geographic Information Systems, Office of Extended Studies, Montana State University (seminar for technical professionals delivered via METNet 2-way interactive video network to studio audiences in eight Montana cities)
1994	Building a Multidisciplinary GIS Research Center, Department of Geography, University of Auckland
1994	Geographic Information Technologies in the Great American Outback, Department of Geography, University of Auckland
1994	Natural Resource Management Applications of GIS, Department of Animal and Range Sciences, Montana State University
1994	The Expanding Role of GIS in Undergraduate Education at Montana State University, Department of Geography, University of Lethbridge
1994	Computer Simulation in the Earth Sciences, Science and Technology Core Committee Computer Exposition, Montana State University
1994	Development of a New Montana Precipitation Map Using the ANUSPLIN Model, Montana Natural Resource Information System, Montana State Library
1993	GIS Research in Support of Grasshopper and Locust Management, U.S. Agency for International

Geography, Geographic Information Systems, and Agriculture in the Great American Outback, U.S. Department of Agriculture-Agricultural Research Service Fort Keough Experiment Station

Development Site Visit, Montana State University

1992

- 1991 Computerized Methods of Terrain Analysis, Center for High-Elevation Studies, Montana State University
- 1990 Terrain-based Models for the Distributed Erosional Modeling of Landscapes, Department of Geography, University of Auckland
- 1990 Terrain Analysis and Soil Erosion Model Development, Department of Earth Sciences, University of Waikato
- 1990 Geography, Geographic Information Systems, and Agriculture in the Great American Outback, Waikato Branch, New Zealand Geographical Society, Waikato Branch
- 1989 Use of Geographic Information Systems and Models for Landscape Analysis, National Science Foundation Congressional Site Visit, Montana State University
- 1987 Soil Erosion/Crop Productivity Relationships, Aokautere Soil Conservation Center, New Zealand Ministry of Works and Development
- 1987 Soil Erosion/Crop Productivity Models and Their Data Requirements, Soils Bureau, Division of Scientific and Industrial Research
- 1987 Management of Soil and Water Resources: Information Requirements and Models, Department of Geography, University of Otago
- 1987 Management of Soil and Water Resources: Information Requirements and Models, Department of Geography Jubilee Conference and Celebration, University of Canterbury
- 1984 Modeling Soil Erosion and Phosphorus Loadings in the Lake Simcoe-Couchiching Basin, 1800-1981, Department of Earth Sciences, Montana State University

GRANTS AND CONTRACTS

- 2019-2023 Contextual Effects on Cardiometabolic Health: Evidence from a Natural Experiment
 National Heart, Lung, and Blood Institute, National Institutes for Health; Co-I; A. Datar,
 Center for Economic and Social Research, University of Southern California, PI \$1,000,000
 (\$175,200; Wilson).
- 2019-2020 Superblocks for Los Angeles: Sustainable Urban Alternatives
 University of Southern California Undergraduate Research Associates Program; Co-PI with B.
 MacDonald, Spatial Sciences Institute, University of Southern California; \$4,650
- 2018-2019 Modeling the Geographic Relationships between the Locations of Operation Smile Missions and Need for Medical Services across Madagascar and Vietnam Operation Smile; PI; \$5,000.
- 2018-2019 Urban Data Analytics
 University of Southern California Undergraduate Research Associates Program; Co-PI with B.
 MacDonald, Spatial Sciences Institute, University of Southern California; \$4,500.
- 2017-2018 Modeling the Geographic Relationships between the Locations of Operation Smile Missions and Need for Medical Services across Mexico

 Operation Smile; PI; \$7,500.

- 2017-2018 Gentrification, Densification, and Urban Life
 University of Southern California Undergraduate Research Associates Program; Co-PI with B.
 MacDonald, Spatial Sciences Institute, University of Southern California; \$3,600.
- 2016-2021 Southern California Clinical and Translational Science Institute: Clinical and Translational Science Award

 National Center for Advancing Translational Sciences, National Institutes of Health; Co-I; T. A. Buchanan, Department of Medicine, University of Southern California, M. D. Kipke,
 Department of Pediatrics, Children's Hospital Los Angeles, and J. M. Samet, Department of Preventive Medicine, University of Southern California, PIs; \$36,600,000 (\$295,640; Wilson).
- Southern California Environmental Health Sciences Center: Environmental Exposures, Host Factors, and Human Disease
 National Institute of Environmental Health Sciences; Co-I; F. D. Gilliland, Department of Preventive Medicine, University of Southern California, PI; \$4,996,728 (\$170,200; Wilson).
- 2016-2017 Spatial Disparities in Adherence to Colorectal Cancer Screening among the Elderly
 National Institute on Aging; Co-PI with L. A. Escobedo, Spatial Sciences Institute, University of
 Southern California; \$24,993.
- 2015-2019 Geographic Analysis, Modeling, and Mapping Support for the Children's Data Network Project
 University of Southern California, School of Social Work; Co-PI with B. MacDonald, Spatial
 Sciences Institute, University of Southern California; \$57,220.
- 2014-2018 Visualizing a University Campus with Esri's CityEngine™

 University of Southern California Undergraduate Research Associates Program; Co-PI with B. MacDonald, Spatial Sciences Institute, University of Southern California; \$11,400.
- 2014-2017 Religious Competition and Creative Innovation: Los Angeles and Seoul, South Korea
 John Templeton Foundation; Co-I; R. Flory & B. Loskota, Center for Religion and Civic
 Culture, University of Southern California, PIs; \$2,500,000 (\$105,000, Wilson).
- 2013-2018 Adolescent Smoking: Vulnerability to Tobacco Use and Marketing across Life (P2 Maximizing Retailers' Responsiveness to FDA)
 National Cancer Institute; Co-I, L. Baezconde-Garbanati, Department of Preventive Medicine, University of Southern California, PI; funded as part of the "USC Tobacco Center of Regulatory Science (TCORS) for Vulnerable Populations" grant awarded to J. Samet & M. Pentz, Department of Preventive Medicine, University of Southern California; \$19,999,608 (\$5,000; Wilson).
- 2013-2018 Adolescent Smoking: Vulnerability to Tobacco Use and Marketing across Life (P3 Adolescent Smoking: Vulnerability to Tobacco Use)
 National Cancer Institute; Co-I, R. McConnell, Department of Preventive Medicine, University of Southern California, PI; funded as part of the "USC Tobacco Center of Regulatory Science (TCORS) for Vulnerable Populations" grant awarded to J. Samet & M. Pentz, Department of Preventive Medicine, University of Southern California; \$19,999,608 (\$34,858; Wilson).

- 2013-2018 Maternal Stress and Children's Obesity Risk
 National Heart, Blood, and Lung Institute, National Institutes of Health; Co-I, G. F. Dunton,
 Department of Preventive Medicine, University of Southern California, PI; \$4,117,478 (\$36,800, Wilson).
- 2013-2015 Building Photorealistic 3-D Models of the University Park Campus Buildings and Landmarks Facilities Management Services, University of Southern California; PI; \$110,000.
- 2013-2014 Developing Interactive Mapping Services for Immigrant Populations

 Tomás Rivera Policy Institute, University of Southern California; Co-PI with R. Kornak, Spatial Sciences Institute, University of Southern California; \$10,000.
- 2013-2014 Map Story Support for the Multimedia Mapping Havana Project
 Tomás Rivera Policy Institute, University of Southern California; PI; \$2,500.
 - 2013 Historically Significant Buildings Multimedia Mapping Project
 Real Estate and Asset Management Division, University of Southern California; PI; \$38,500.
- 2012-2017 Geospatial Data and Mapping Support for Africa Business Creativity and Innovation Project
 Gould School of Law, University of Southern California; Co-PI with B. MacDonald, Spatial
 Sciences Institute, University of Southern California; \$20,000.
- 2012-2016 Southern California Environmental Health Sciences Center: Environmental Exposures, Host Factors, and Human Disease
 National Institute of Environmental Health Sciences; Co-I; F. D. Gilliland, Department of Preventive Medicine, University of Southern California, PI; \$7,113,124 (\$102,704, Wilson).
- 2012-2014 New Tools for Maximizing Health and Economic Benefits of Air Pollution Regulation
 South Coast Air Quality Management District; Co-I, R. McConnell, Department of Preventive
 Medicine, University of Southern California & S. Brandt, Department of Resource Economics,
 University of Massachusetts-Amherst, PIs; \$250,000 (\$25,520, Wilson).
- 2010-2013 Interdisciplinary Spatial Science
 University of Southern California Collaboration Fund; Co-PI with M. G. Cockburn,
 Department of Preventive Medicine, University of Southern California; \$60,000.
- 2010-2013 Developing a 3-D Routing Service for USC's University Park Campus Facilities Management Services, University of Southern California; Co-PI with D. W. Goldberg, Spatial Sciences Institute, University of Southern California; \$45,000.
- 2010-2012 GIS Support for Southern California American Red Cross Chapters American Red Cross; PI; \$69,600.
- 2010-2011 Development of a Management System and Geographic Interface for Biological Resource Data U.S. Department of Defense Legacy Program; Co-PI with T. R. Longcore & J. N. Swift, Spatial Sciences Institute, University of Southern California; \$100,000.
- 2010-2011 Building Multidisciplinary Spatial Science Learning Pathways
 University of Southern California Fund for Innovative Undergraduate Teaching; PI; \$7,750.

- 2009-2011 New Approaches to Estimating the Cost and Burden of Traffic-related Air Pollution in Children
 South Coast Air Quality Management District; Co-I, R. McConnell, Department of Preventive
 Medicine, University of Southern California and S. Brandt, Department of Resource Economics,
 University of Massachusetts-Amherst, PIs; \$350,000 (\$30,000, Wilson).
- 2009-2010 Mapping Support for Las Virgenes-Malibu Council of Governments Multi-Jurisdictional Hazard Mitigation Plan

 MLC & Associates, Inc., Costa Mesa, California; PI; \$6,500.
- 2009-2010 Provision of Batch and Manual Geocoding Services California Cancer Registry; PI; \$20,000.
- 2009-2010 Impact of Vehicle Pollution on Children's Development in Los Angeles County University of Southern California Undergraduate Research Program; Co-PI with J. N. Swift, Department of Geography, University of Southern California; \$6,000.
- 2009-2010 A Center for Regional Decadal Climate Predictions (CRDCP)
 James H. Zumberge Faculty Research and Innovation Fund; Co-PI with L. Stott, Department of Earth Sciences, University of Southern California; \$50,000.
- 2009-2010 Mapping Support for Riverside Urban Area Security Risk/Gap Analysis Project MLC & Associates, Inc., Costa Mesa, California; PI; \$36,000.
 - 2009 USC WebGIS Open Source Geocoder Platform Extension
 National Cancer Institute, Co-PI with M. G. Cockburn, Department of Preventive Medicine,
 University of Southern California; \$93,500.
- 2008-2009 Impact of Vehicle Pollution on Children's Health in Southern California: Methods Development for a Spatially Based Assessment of Burden of Disease and Economic and Policy Consequences

 James H Zumberge Faculty Research and Innovation Fund; Co-PI with R. S. McConnell, W. J. Gauderman, Department of Preventive Medicine, and J. Wolch, Department of Geography, University of Southern California; \$50,000.
- 2008-2009 Development and Testing of Geocoding Services for the Division of Cancer Prevention and Control Northrop Grumman and Centers for Disease Control and Prevention; Co-PI with J. N. Swift, Department of Civil and Environmental Engineering, University of Southern California; \$90,000.
- 2007-2010 Shortest Network Paths: New Algorithms and Applications North American Association of Central Cancer Registries and Susan G. Komen Breast Cancer Foundation; PI; \$132,072.
- 2007-2008 Upper Los Angeles River Recommendations and Implementation Blueprint Mountains Restoration Trust; PI; \$40,000.
- 2007-2008 Development of a Web-Based Hydrologic Information System
 University of Southern California Undergraduate Research Program; Co-PI with J. N. Swift,
 Department of Civil and Environmental Engineering, University of Southern California; \$6,000.
 - 2006 Upper Los Angeles River: Recharge Suitability Analysis Mountains Restoration Trust; PI; \$80,000.

- 2005-2011 Influence of Built Environments on the Development of Obesity during Childhood
 National Cancer Institute; Co-I with M. Jerrett, K. T. Berhane, F. D. Gilliland, R. McConnell,
 Department of Preventive Medicine, K. Reynolds, Institute for Prevention Research, & J. Wolch,
 Department of Geography, University of Southern California; funded as part of "USC Center for
 Trans-disciplinary Research on Energetics and Cancer (C-TREC)" grant awarded to M. Goran,
 Institute for Prevention Research, Keck School of Medicine, University of Southern California;
 \$1,010,215 (\$70,000; Wilson).
- 2005-2006 GIS-Based Analysis and Visualization of Hydrological and Ecological Patterns and Processes San Gabriel and Lower Los Angeles Rivers and Mountains Conservancy; PI; \$9,998 (two awards).
- 2005-2006 Development of a White Paper on GIS Modeling Opportunities for Regional Sediment Management in Ventura and San Diego Counties, California
 Everest International Consultants, Long Beach, California and U.S. Army Corps of Engineers, Los Angeles District Office; PI; \$9,227.
 - 2005 Characterizing Parkland and Recreational Open Space in the Los Angeles Metropolitan Region
 University of Southern California Undergraduate Research Program; Co-PI with J. Wolch &
 T.R. Longcore, Department of Geography, University of Southern California; \$6,000.
- 2004-2009 Place-based Decision Support for Spatial and Temporal Transference of Risks and Hazards
 National Science Foundation, Human and Social Dynamics Program; Co-PI with T. R. Jordan,
 Department of Earth Sciences, J. N. Swift, Department of Civil and Environmental Engineering,
 University of Southern California, & S. L. Cutter, Department of Geography, University of
 South Carolina; \$700,000 (\$300,000; University of Southern California).
- 2004-2007 Student Interns: GIS Mapping and Planning Support
 Southern California Association of Governments; PI; \$80,000 (multiple awards).
- 2004-2006 An Integrated Watershed Management Plan for the Upper Los Angeles River
 Mountains and Watershed Conservation Authority; Co-PI with J. Wolch, Department of
 Geography, University of Southern California; \$250,000.
- 2004-2006 An Investigation of the Scale Effects of DEM-based Fuzzy k-means Landform Classifications
 National Science Foundation, Geography and Regional Science Doctoral Dissertation Research
 Program; Co-PI with Y. X. Deng, Department of Geography, University of Southern California;
 \$11,240.
- Spatio-temporal Patterns of Suspended Sediment at a Tidal River Bifurcation
 National Science Foundation, Geography and Regional Science Doctoral Dissertation Research
 Program; Co-PI with M. Lange, Department of Geography, University of South California & B.
 O. Bauer, Department of Earth Science, University of British Columbia at Okanagan; \$12,000.
- 2004-2005 GIS Boat Traffic and Levee Erosion Data Integration
 California Department of Boating and Waterways; PI; Subcontract funded as part of
 "Sacramento-San Joaquin Delta Studies: Field Program to Measure Levee Erosion" grant
 awarded to B. O. Bauer, Department of Earth Science, University of British Columbia at
 Okanagan; \$55,549.

- 2004-2005 Competing Definitions of Activity Spaces and Neighborhoods
 University of Southern California, Keck School of Medicine, Children's Health Study; Co-PI with R. McConnell, Department of Preventive Medicine, University of Southern California;
 \$25,000.
- 2004-2005 Building the International Metropolitan Observatory Project
 University of Southern California Urban Initiative; Co-PI with J. Sellers, Department of Political Science, University of Southern California; \$10,000.
- 2003-2009 Framework for Integrating Geospatial and Online Data to Respond to Unexpected Events
 National Science Foundation, Information Technology Research Program; Co-PI with C. A.
 Knoblock & C. Shahabi, Department of Computer Science, University of Southern California;
 \$1,186,000.
- 2003-2008 Green Visions Plan for 21st Century Southern California: A Guide for Habitat, Watershed Management, and Recreational Open Space
 San Gabriel and Lower Los Angeles Rivers and Mountains Conservancy, Baldwin Hills Conservancy, Coastal Conservancy, and Santa Monica Mountains Conservancy; Co-PI with T. R. Longcore & J. Wolch, Department of Geography, & J. Devinny, Department of Civil and Environmental Engineering, University of Southern California; \$816,500 (multiple awards).
- 2003-2004 Analysis of Butterfly Survey Data from San Bruno Mountain Habitat Conservation Plan (1982-1997)
 Thomas Reid Associates, Palo Alto, California; Co-PI with T. R. Longcore, Department of Geography, University of Southern California; \$11,200.
- 2003-2004 Evaluating Dredging and Material Placement Options for Ventura Harbor, California
 Everest International Consultants, Long Beach, California and U.S. Army Corps of Engineers,
 Los Angeles District Office; PI; \$50,000.
 - 2003 California Regional Sediment Master Plan: GIS System Architecture and Database Design Parsons, Brinckerhoff, Quade and Douglas and U.S. Army Corps of Engineers, Los Angeles District Office; PI; \$74,341.
- 2002-2003 Estimating the Spatial Distribution of Vegetation Cover in the Los Angeles Metropolitan Region University of Southern California, Lusk Center for Real Estate; PI; \$7,500.
- 2002-2003 Development of a Series of Maps of the Los Angeles Metropolitan Region for Growth Visioning Workshops
 Urban Land Institute-Los Angeles and USC Lusk Center for Real Estate; PI; \$24,500.
- 2001-2006 Development of Gazetteer Services and Databases for the Los Angeles Digital Archive University of Southern California, Information Services Division; PI; \$160,000 (multiple awards).
- 2001-2003 Development of Geographic Search and Query Tools for the USC Digital Archive University of Southern California, Information Services Division; PI; \$33,000.
- 2001-2002 Development of New Methods to Characterize the Sun Exposure and Constitutional Risk Factors
 Associated with Malignant Melanomas
 James H Zumberge Interdisciplinary Research Fund; Co-PI with T. M. Mack & M. G.
 Cockburn, Department of Preventive Medicine, University of Southern California; \$38,500.

- 2001-2002 Predicting Spatial Patterns of Population Growth and Habitat Change in Orange County University of Southern California, Lusk Center for Real Estate; PI; \$5,000.
- 2001-2002 International Symposium on Spatial Statistics, Geographic Information Systems, and Environmental Health
 James H Zumberge Interdisciplinary Research Fund; Co-PI with R. McConnell, Department of Preventive Medicine, University of Southern California; \$27,630.
- 2000-2002 Toward a Sustainable Los Angeles: A "Nature's Services" Approach
 John Randolph and Dora Haynes Foundation; Co-PI with S. S. Pincetl and J. Wolch,
 Department of Geography, University of Southern California; \$379,998.
- 1999-2003 Preparation of Images and Metadata for 1939 Works and Progress Administration Household Survey
 Census Cards
 University of Southern California, Information Services Division; PI; \$77,400 (multiple awards).
- 1999-2001 Modeling Spatial Patterns of Population Growth and Habitat Change
 James H. Zumberge Faculty Research and Innovation Fund; PI; \$24,987.
- 1998-2005 Modeling the Spatial Pattern and Magnitude of Recreational Boat Traffic in the Sacramento-San Joaquin Delta
 California Department of Boating and Waterways; PI; \$321,580 (multiple awards).
- 1998-2001 Student Interns: GIS Mapping Support
 Southern California Association of Governments; PI; \$124,890 (multiple awards).
- 1998-2000 Modeling the Impact of Different Land Use Policies on Urban Expansion in Southern California, 1986-2010
 James H. Irvine Foundation; PI; Subcontract funded as part of "Creative Communities and Urban Futures Project" grant awarded to M. J. Dear, Department of Geography, University of Southern California; \$96,083.
- 1998-1999 Integrating Geographic Databases and Atmospheric Chemical Dispersion Models"
 U.S. Department of Defense, Defense Advanced Research Projects Agency, Information
 Technology Office; PI; Subcontract funded as a part of "GeoWorlds Project" grant awarded to R.
 T. Neches, Information Sciences Institute, University of Southern California; \$75.000).
- 1997-2001 Development and Evaluation of a Series of Student-centered, WWW-based GIS Teaching Units and Laboratory Exercises
 U.S. Department of Education, Fund for the Improvement of Secondary and Higher Education; Co-PI with R. J. Aspinall, Geographic Information and Analysis Center, Montana State University, Bozeman, Montana & R. J. Eastman, Graduate School of Geography, Clark University, Worcester, Massachusetts; \$175,000.
- 1997-1999 Development of GIS Data Layers for the Integrated Digital Archive-Information System Los Angeles
 Project
 University of Southern California, Information Services Division; PI; \$105,000.
- 1997-1998 Advancing Environmental GIS Hewlett Foundation; PI; \$5,000.

- 1997-1998 Preparation of Historical Census and Electoral Geography Data Layers for Los Angeles County
 John Randolph and Dora Haynes Foundation; PI; Subcontract funded as part of "Race-Ethnicity,
 and Political Fragmentation in Los Angeles County, 1940-96" grant awarded to P. J. Ethington,
 Department of History, University of Southern California; \$30,000.
 - 1997 Preparation of Selected Land Use and Employment Data Layers for South Bay Economic Region
 Los Angeles Community Development Commission; PI; Subcontract funded as part of "South
 Bay Economic Adjustment Plan Project" grant awarded to D. Flaming & M. Drayse, Economic
 Roundtable, Los Angeles, California; \$21,000.
- 1996-1999 Cartographic Database and Modeling Support for the Southern California Atlas Project (Volumes 1–3)
 University of Southern California, Southern California Studies Center; PI; \$135,000 (multiple awards).
- 1995-1998 Distributed Modeling and Classification of Landscapes in the Greater Yellowstone Area
 National Science Foundation EPSCoR Program; PI; Subcontract funded as part of
 "Determinants of Biodiversity, Social, and Economic Patterns in Montane Ecosystems" grant
 awarded to J. D. Stanford, Yellow Bay Biological Station, University of Montana & A. D.
 Barnosky, Mountain Research Center, Montana State University; \$130,000.
- 1995-1996 Formation of the Montana Local Government GIS Coalition
 U.S. Geological Survey National Spatial Data Infrastructure Program; PI; \$24,780.
- 1995-1996 Preparation of Arc Macro Language Scripts for Generating and Checking Public Land Survey System
 and Land Ownership Data Layers
 U.S. Department of Interior, Bureau of Indian Affairs; PI; \$8,500.
- 1995-1996 Preparation of GPS Road Survey and Selected GIS Data Layers for City of Bozeman and Gallatin County, Montana
 Gallatin County and Bozeman City-County Planning Board; PI; \$36,500.
- 1995-1996 Preparation of DEM and Climate Data Layers for the Greater Yellowstone Area
 U.S. Department of Agriculture, U.S. Department of Interior, and Greater Yellowstone
 Coordinating Committee; PI; \$30,000.
- 1994-1998 Use of Terrain Analysis to Quantify Landscape Patterns in the Greater Yellowstone Area
 NASA EPSCoR Program; PI; Subcontract funded as part of "Land Use and Wildfire Effects on
 Landscape Patterns and Avian Diversity: A Comparison of the Greater Yellowstone Ecosystem
 and the Pacific Northwest" grant awarded to A. J. Hansen, Department of Biology, Montana
 State University; \$35,000.
- 1994-1997 Evaluation of Opportunities for Forecasting Senegalese Grasshopper Infestations
 U.S. Agency for International Development; Co-PI with W. P. Kemp, U.S. Department of Agriculture-Rangeland Insect Laboratory, Bozeman, Montana and G. B. Popov, London, England; \$77,500.
- 1994-1996 Preparation of Digital Fisheries and Wildlife Databases and Maps
 Montana Department of Fish, Wildlife and Parks; PI; \$35,000.
- 1994-1995 Development of Terrain Analysis Programs for the Environmental Sciences M. J. Murdock Charitable Trust; PI; \$49,250.

- 1994-1995 Preparation of Digital Land Resource Data Layers for the City of Bozeman Critical Lands Project City of Bozeman Planning Office; PI; \$9,995.
 - Development of Greater Yellowstone Area GIS Teaching Materials: Post-Doctoral Support for Dr. C.
 Victor Wu
 Burns Telecommunications Center, Office for Extended Studies and Office of the Vice-President for Research and Creative Activities, Montana State University; PI; \$24,000.
- 1993-1995 Evaluation of Temporal and Scale Effects in Solute Transport Models
 U.S. Department of Agriculture-Cooperative States Research Service; Co-PI with W. P. Inskeep
 & J. M. Wraith, Department of Plant and Soil Science, Montana State University, \$149,363.
- 1993-1994 Preparation of Digital Soil and Land Cover Data Layers for Gallatin National Forest U.S. Department of Agriculture-Forest Service; PI; \$8,000.
 - 1993 Preparation of GIS Base Maps for Bozeman City-County Planning Area from Scanned Aerial
 Photography
 City of Bozeman Engineering Department and Montana State University Local Government
 Center; PI; \$6,000.
- 1992-1995 Development and Testing of Satellite Vegetation Classification Methods in Custer National Forest U.S. Department of Agriculture-Forest Service; Co-PI with G. A. Nielsen, Department of Plant and Soil Science, Montana State University; \$62,000.
- 1992-1994 Is Drought Following the Plow in Less Developed Countries?
 U.S. Agency for International Development, Program for Science and Technology Cooperation;
 Co-PI with W. D. Swearingen, Entomology Research Laboratory, Montana State University and A. Bencherifa, Université Mohammed V, Rabat, Morocco; \$148,672.
- 1992-1994 Testing the Drought Follows the Plow Hypothesis in Morocco
 National Science Foundation, Human Dimensions of Global Change Program; Co-PI with W.
 D. Swearingen, Entomology Research Laboratory, Montana State University and A. Bencherifa, Université Mohammed V, Rabat, Morocco; \$88,500).
- 1992-1994 Application of GIS and Geostatistical Modeling Techniques to Support the Sustained Control of Locusts and Grasshoppers in Africa
 U.S. Agency for International Development; Co-PI with W. P. Kemp, U.S. Department of Agriculture-Rangeland Insect Laboratory, Bozeman, Montana; \$16,500.
- 1992-1994 Development of Quantitative Landform Descriptions and Soil Models for Yellowstone National Park U.S. Department of Interior-National Park Service, Cooperative Park Studies Unit; Co-PI with H. W. Shovic, Yellowstone National Park, Mammoth, Wyoming; \$23,000.
- 1992-1995 Coupling GIS, Digital Terrain Analysis, and Hydrologic Models
 Montana Agricultural Experiment Station; PI; \$7,250.
- 1991-1994 Impact of Cropping Systems on Non-point Source Groundwater Pollution
 U.S. Department of Agriculture-Cooperative States Research Service; Co-PI with J. M. Antle,
 D. Griffith, J. B. Johnson, Department of Agricultural Economics; J. W. Bauder, & J. S.
 Jacobsen, Department of Plant and Soil Science, Montana State University; \$110,000.

- 1991-1994 Preparation of Hunting District GIS Data Layers and Maps
 Montana Department of Fish, Wildlife and Parks; PI; \$14,500.
- 1991-1994 Development of a Land and Microclimate Information System for Groundwater Protection
 U.S. Department of Agriculture-Cooperative States Research Service; Co-PI with J. S. Jacobsen
 & G. A. Nielsen, Department of Plant and Soil Science, Montana State University; \$188,523.
- 1991-1992 Hydrologic Characterization of Proposed Downhill Ski Area and Resort
 Bridger Bowl Ski Area; Co-PI with J. Whittingham, Department of Earth Sciences, Montana
 State University; \$4,200.
- 1991-1992 Development of Computerized Viewshed Analysis Techniques for the Big Sky Resort Area
 Ankeny Foundation; Co-PI with D. L. Wittren, Department of Earth Sciences, Montana State
 University; \$1,420.
- 1990-1996 Instructional Support for GIS

 Montana State University Computer Fee Allocation Committee; PI; \$74,720 (multiple awards).
- 1990-1994 GIS Equipment Acquisition in Support of the Geographic Information and Analysis Center at Montana State University
 M. J. Murdock Charitable Trust; PI; \$240,000.
- 1990-1994 Classification of Remotely Sensed Imagery and Preparation of Natural Resource and Public Lands
 Survey System Data Layers and Maps for Selected Indian Reservations
 U.S. Department of Interior, Bureau of Indian Affairs; PI; \$42,686.
- 1990-1992 Validation of Solute Transport Models for Predicting Pesticide Movement into Groundwater Montana University System Water Resources Center; Co-PI with H. Ferguson, W. P. Inskeep, R. H. Lockerman, & G. A. Nielsen, Department of Plant and Soil Science, Montana State University; \$50,869.
- 1990-1991 Reconciliation of Digital Hydrography and Soil Maps for Valley County, Montana
 U.S. Department of Interior, Bureau of Land Management; Co-PI with G. A. Nielsen,
 Department of Plant and Soil Science, Montana State University; \$2,500.
- 1990-1991 Evaluation of PC-based Methods of Terrain Analysis

 Montana State University High Elevation Studies Program; Co-PI with A. R. Ladson,
 Department of Earth Sciences, Montana State University; \$1,000.
- 1990-1991 Development of GIS-based Methods for Weed Control and Groundwater Protection

 Montana Noxious Weed Trust Fund; Co-PI with D. Cooksey, Entomology Research

 Laboratory; W. P. Inskeep, G. A. Nielsen, Department of Plant and Soil Science; & C. M. Ryan,

 Geographic Information and Analysis Center, Montana State University; \$13,000.
- 1990-1991 Development of Laboratory Teaching Materials for GIS Instruction
 Montana State University Teaching/Learning Committee; PI; \$2,000.
- 1989-1992 Development and Testing of New Techniques for the 3-D Representation of Terrain, Soil, and Land Cover Characteristics

 Montana Agricultural Experiment Station; PI; \$39,267.

- 1989-1991 Development of Topographic Analysis Techniques for the Distributed Hydrological and Erosional
 Modeling of Landscapes
 National Science Foundation, Geography and Regional Science Program; Co-PI with I. D.
 Moore, Centre for Resource & Environmental Studies, Australian National University; \$52,777.
- 1989-1991 Montana STATSGO Database Project
 U.S. Department of Agriculture-Soil Conservation Service, Extension Service, Rangeland Insect
 Laboratory, Montana Department of Agriculture and Montana Agricultural Experiment Station;
 Co-PI with G. A. Nielsen, Department of Plant and Soil Science, Montana State University;
 \$15,500.
- 1989-1990 Spatial Dimensions of Soil Erosion/Crop Productivity Interactions

 Montana State University Research/Creativity Program; PI; \$3,000.
- 1989-1990 Erosional Impact of Hikers, Horses, Off-Road Bicycles, and Motorcycles on Mountain Trails
 U.S. Department of Agriculture-Forest Service, Intermountain Research Station; Co-PI with J.
 P. Seney, Department of Earth Sciences, Montana State University; \$2,000.
- 1988-1991 GIS Equipment Acquisition to Support Undergraduate Instruction at Montana State University
 National Science Foundation, Instrumentation and Laboratory Improvement Program; PI;
 \$74,990.
- 1988-1989 Preparation of Lone Mountain Range Ski Trail Maps

 Lone Mountain Ranch; Co-PI with J. D. Starkey, Department of Computer Science, Montana State University; \$3,345.
- 1987-1989 Quantifying the Effects of Soil Erosion on Crop Production in the Northern Great Plains
 National Science Foundation, Geography and Regional Science Program; Co-PI with G. A.
 Nielsen, Department of Plant and Soil Science, Montana State University; \$70,748.
 - 1987 Quantifying Soil Erosion, Sediment Storage, and Sediment Yield in the Pefferlaw Brook Watershed,
 Ontario, Canada
 Association of American Geographers; PI; \$250.
- 1986-1987 Computer Simulation Models for Earth Science Instruction

 Montana State University Technology Core Curriculum Committee; PI; \$3,736.
- 1986-1987 Streambank Erosion and Controls on the North Fork Flathead River

 Montana Bureau of Mines and Geology; Co-PI with J. H. Ruth, Department of Earth Sciences,

 Montana State University; \$6,565.
 - 1985 Computer Simulation Models for Earth Science Instruction
 Montana State University Teaching/Learning Committee; PI; \$1,281.

TEACHING

Program and Curriculum Development

University of Southern California

- Established **B.S. in Global Geodesign,** drawing on two new semester-long studio classes created in collaboration with Peking University and the Vrije University Amsterdam and a series of existing undergraduate classes offered by the School of Architecture, Department of Sociology, Price School of Public Policy and Spatial Sciences Institute, among others.
- 2018 Established **Minor in GIS and Sustainability Science** based on one new capstone course and several existing courses on geographic information and sustainability science offered by the Spatial Sciences Institute.
- Established **M.S. in Spatial Economics and Data Analysis** with the Department of Economics in the Dornsife College of Letters, Arts and Sciences, drawing on a series of existing courses in Economics as well as six existing GIS&T courses offered by the Spatial Sciences Institute.
- Established **M.S. in Transportation Systems Management** with the Department of Civil and Environmental Engineering in the Viterbi School of Engineering, drawing on a series of existing GIS&T courses and using one course in the core requirements and the remainder of the courses to build a specialization in Geographic Information Science.
- 2017 Established **M.S. in Human Security and Geospatial Intelligence** based on two new courses and several existing courses offered by the Spatial Sciences Institute.
- 2016 Established **Minor in Human Security and Geospatial Intelligence** based on one new capstone course and several existing courses offered by the School of International Relations and the Spatial Sciences Institute.
- Established **M.S. in Spatial Data Science** with the Data Science Program in the Viterbi School of Engineering, drawing on a series of existing courses in Data Science as well as six existing GIS&T courses and two new ones focused on spatial computing and spatial internships specially created for this degree program.
- 2014 Established **Graduate Certificate in Spatial Analytics**, based on three new graduate seminars in Spatial Computing, Spatial Analysis and Spatial Modeling.
- Established **Ph.D.** in **Population**, **Health**, **and Place**, drawing on seven new seminars created specifically for the degree (five in Spatial Sciences, two in Sociology) and a series of existing courses offered by the Department of Preventive Medicine, Keck School of Medicine, and the Department of Sociology, Dornsife College of Letters, Arts and Sciences.
- 2014 Established a **GeoHealth track**, based on a series of existing online courses in the Geographic Information Science & Technology Programs, in the Keck School of Medicine's newly established Online Masters in Public Health Program.
- 2014 Prepared Self-Study Report with Susan Kamei for the U.S. Geospatial Intelligence Foundation that led to the accreditation of the University of Southern California's **Graduate Certificate in Geospatial Intelligence**.

- Established **Graduate Certificate in Geospatial Intelligence**, drawing on one new online course created specifically for this certificate program (SSCI 579-Geospatial Intelligence Tradecraft) and a series of six existing online courses that are part of the Geographic Information Science & Technology Graduate Programs.
- Established **Graduate Certificate in Geospatial Leadership,** drawing on one new blended course created specifically for this certificate program (SSCI 578-The Practice of Geospatial Leadership) and a series of 11 existing online courses that are part of the Geographic Information Science & Technology Graduate Programs.
- Established **B.S. in GeoDesign,** drawing on seven new undergraduate classes created specifically for this degree (four in Spatial Sciences, three in Architecture) and a series of existing courses offered by the School of Architecture, Department of Sociology, Price School of Public Policy and Spatial Sciences Institute, among others.
- 2012 Established **Minor in Spatial Studies**, drawing on three new undergraduate GIS classes and a series of existing classes offered by multiple schools and departments.
- 2009 Prepared Substantive Change Report for Western Association of Schools and Colleges Accrediting Commission for the Senior Colleges and Universities that led to the accreditation of the University of Southern California's M.S. in Geographic Information Science & Technology.
- 2008 Established **M.S. in Geographic Information Science & Technology (GIST),** drawing on five online classes specifically created for this program and four online classes originally created as a part of the Graduate Certificate in Geographic Information Science.
- Established Graduate Certificate in Geographic Information Science & Technology (GIST), drawing on the nine online classes used to support the GIST M.S. Program.
- 1999 Established **Graduate Certificate in Geographic Information Science,** drawing on four online classes created specifically for this purpose (the courses were retained but the certificate program itself was revised and renamed in 2009.
- 1998 Established **Minor in Geographic Information Science** and four new undergraduate classes specifically for this purpose.

Montana State University

1990 Established **Minor in Geographic Information Science** and three new undergraduate classes specifically for this purpose.

Current Courses Taught

University of Southern California

SSCI 265Lg: The Water Planet

SSCI 578#: The Practice of Geospatial Leadership

SSCI 585#: Geospatial Technology Project Management

SSCI 600: The Geography of Life and Death

(Classes with the designations L, g, and # refer to lecture classes with an accompanying laboratory component, General Education classes and online classes, respectively)

University of the Chinese Academy of Sciences

CAS 599: Special Topics: Scientific Reading & Writing

Past Courses Taught

University of Southern California

ARCH 517: GeoDesign Practice

GEOG 260Lg: Natural Hazards

GEOG 265Lg: The Water Planet

GEOG 281Lg: Environmental Applications of Geographic Information Systems

GEOG 482L: Principles of Geographic Information Science

GEOG 483ab: Applied GIS Internship

GEOG 485ab: Directed GIS Research

GEOG 497L: Computer Cartography and Geographic Information Systems

GEOG 501: Geographical Research Design

GEOG 587#: GIS/GPS Field Techniques

GEOG 681: Environmental Modeling with GIS

PLDV 526: Urban Information Systems

SSCI 499: Special Topics (Changing Our Global Infrastructure: An International Collaborative Geodesign Studio)

SSCI 579#: Geospatial Intelligence Tradecraft

SSCI 587#: Spatial Data Acquisition

SSCI 588#: Remote Sensing for GIS

SSCI 683: Principles of Spatial Data Analysis

(Classes with the designations L, g, and # refer to lecture classes with an accompanying laboratory component, General Education classes and online classes, respectively)

Montana State University

ESCI 500: Research Design Seminar

ESCI 580: Images of Earth

GEOG 101N: Introduction to Physical Geography

GEOG 105S#: World Regional Geography

GEOG 202T#: Resource Geography

GEOG 305: Introduction to Geographic Information Systems

GEOG 330: Agricultural Geography

GEOG 400: Geography Colloquium

GEOG 402: Geographical Analysis

GEOG 407: Applied Geography

GEOG 411: Advanced Geographic Information Systems

GEOG 422: Environmental Hazards

GEOG 501: GIS and Environmental Modeling

(Classes with the designations N, S, T, and # refer to Natural Science, Social Issues, Technology, and Multicultural Issues General Education classes, respectively)

University of Waikato

16.432: Human Ecology of Natural Hazards

University of Toronto

GGY 100: The Human Environment

Post-Doctoral Fellows and Visiting Scholars Directed

- 2018-2019 Dr. Leilei Duan, Spatial Sciences Institute, University of Southern California, Los Angeles, California
- 2018-2019 Dr. Lili Zhang, Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, Beijing, China
- 2015-2017 Dr. Loraine A. Escobedo, Spatial Sciences Institute, University of Southern California, Los Angeles, California
- 2015-2017 Dr. Noli Brazil, Spatial Sciences Institute, University of Southern California, Los Angeles, California
- 2012-2015 Dr. KyoHyouk Kim, Spatial Sciences Institute, University of Southern California, Los Angeles, California
- 2011-2012 Dr. Yumin Chen, Spatial Sciences Institute, University of Southern California, Los Angeles, California (Visiting Scholar; Center for Remote Sensing, Wuhan University, Wuhan, China)
- 2007-2008 Dr. Jingfen Sheng, Department of Geography, University of Southern California, Los Angeles, California
- 2006-2007 Dr. Zaria Tatalovich, Department of Geography, University of Southern California, Los Angeles, California
- 2004-2005 Dr. Rania Bou Kheir, Department of Geography, University of Southern California, Los Angeles, California (Visiting Fulbright Scholar; Research Scientist, National Center for Remote Sensing, Lebanese National Council for Scientific Research, Beirut, Lebanon)
- 1992-1993 Dr. Victor Wu, Department of Earth Sciences, Montana State University, Bozeman, Montana

Dissertations and Theses Directed

Avery Everhart, Ph.D., Population, Health and Place, University of Southern California. Dissertation title: *TBD* (Co-advisor with Dr. Sofia Gruskin, Department of Preventive Medicine, University of Southern California).

Shea Gilliam, Ph.D., Population, Health and Place, University of Southern California Dissertation title: *Contested care, contentious community: A transnational comparison of transgender healthcare in community health settings* (Co-advisor with Dr. Sofia Gruskin, Department of Preventive Medicine, University of Southern California).

Cirenia A. Torres, M.S., Geographic Information Science and Technology, University of Southern California

Thesis title: Assessing the connectivity got co-distributed mammals (orders: Carnivora and Artiodactyla) across the United States-Mexico border using species distribution modeling and factorial least cost path analysis.

Li Yi, Ph.D., Population, Health and Place, University of Southern California Dissertation title: *Linking momentary built environment exposure and physical activity behavior and outcomes: Integrating GPS, GIS, and accelerometer data* (Co-advisor with Dr. Genevieve Dunton, Department of Preventive Medicine, University of Southern California).

Yan Xu, Ph.D., Population, Health and Place, University of Southern California Dissertation title: *Personal PM2.5 exposure assessment of low-income Hispanic pregnant women in Los Angeles* (Co-advisor with Dr. Rima Habre, Department of Preventive Medicine, University of Southern California).

- Monicque Lee, M.S., Geographic Information Science and Technology, University of Southern California
 Thesis title: Defining neighborhood for health research in Arizona.
- 2018 Monika Burchette, M.S., Geographic Information Science and Technology, University of Southern California Thesis title: *Improving wetland determination utilizing unmanned aerial systems*.
- James Potter, M.S., Geographic Information Science and Technology, University of Southern California
 Thesis title: Collecting and managing VGI infrastructure assessment in support of stability operations.
- Brandon Brooks, M.S., Geographic Information Science and Technology, University of Southern California
 Thesis title: Student engagement capabilities in mobile GIS: A framework for mobile GIS education.
- Christine Placencia, M.S., Geographic Information Science and Technology, University of Southern California
 Thesis title: Spatial analysis of vision services of Kaiser Permanente members.
- Quentina Borgic, M.S., Geographic Information Science and Technology, University of Southern California
 Thesis title: Stone tool raw material distribution and predictability study in southern Illinois.
- Shannon Prescott, M.S., Geographic Information Science and Technology, University of Southern California
 Thesis title: Using geospatial technology to establish marsh bird monitoring sites for a pilot study in Maine in accordance with the National Marsh Bird Monitoring Program.
- Charles M. Hall, M.S., Geographic Information Science and Technology, University of Southern California
 Thesis title: Examining data sources and classification methods used in food access studies: Investigating volunteered geographic information as an adjunct to traditional data.

- 2017 Steven Warner, M.S., Geographic Information Science and Technology, University of Southern California
 - Thesis title: A geographical assessment of the Santa Monica Mountains North Area Community Standards District Vineyard Ordinance.
- 2017 Shanna Bressie, M.S., Geographic Information Science and Technology, University of Southern California
 - Thesis title: Spatial patterns of food accessibility across Lane County, Oregon in 2015-2016.
- 2016 Christian Alvez, M.S., Geographic Information Science and Technology, University of Southern California
 - Thesis title: Modeling prehistoric paths in Bronze Age northeastern England.
- Brendan Blee, M.S., Geographic Information Science and Technology, University of Southern California
 Thesis title: Creating a geodatabase and web map application to visualize drone legislation in the State
 - Thesis title: Creating a geodatabase and web map application to visualize drone legislation in the State of Maryland.
- Krista McPherson, M.S., Geographic Information Science and Technology, University of Southern California
 Thesis title: Assessing the impact of a web-based GIS application to promote earthquake preparation on the University of Southern California University Park campus.
- 2016 Bennett Gaumitz, M.S., Geographic Information Science and Technology, University of Southern California

 Thesis Title: Precision agriculture and GIS: Evaluating the use of yield maps combined with LiDAR data.
- Alex Schild, M.S., Geographic Information Science and Technology, University of Southern California

 Thesis title: Archaeological least cost path modeling: A behavioral study of Bronze Age travel routes across the Amanus Mountains, Turkey.
- Nathan Nowak, M.S., Geographic Information Science and Technology, University of Southern California

 Thesis title: Species distribution modeling of sperm whale habitat within the central Gulf of Alaska utilizing passive acoustic modeling.
- 2016 Brian McDonald, M.S., Geographic Information Science and Technology, University of Southern California Thesis title: Dasymetric mapping of building stocks within HAZUS-FL.
- Colin Mattison, M.S., Geographic Information Science and Technology, University of Southern California
 Thesis Title: Does the Bay area have a social center? Delimiting the postmodern urban center of the San Francisco Bay area.

- Joanne Seo, M.S., Geographic Information Science and Technology, University of Southern California
 Thesis Title: An evaluation of Esri's Tapestry Segmentation product in three southern California
- communities: Manhattan Beach, Santa Monica, and Venice Beach.

 Valerie Anderson, M.S., Geographic Information Science and Technology, University of
 - Thesis title: Historical ecology of the Split Oak forest in east central Florida.

Southern California

- Audra Smolek, M.S., Geographic Information Science and Technology, University of Southern California

 Thesis title: Spatial distribution of the greater sage-grouse (Centrocerus urophasianus) in the Powder River basin, northeastern Wyoming.
- Wayne Chien, M.S., Geographic Information Science and Technology, University of Southern California
 Thesis title: Geospatial analysis of the Round Fire: Adapting the dNBR to the Sierra Nevada region of California.
- David Staffel, M.S., Geographic Information Science and Technology, University of Southern California
 Thesis title: Cartography for visualizing anthropogenic threats: A semiotic approach to communicating threat information in 3D spatial models.
- Annabel Lee Enriquez, M.S., Geographic Information Science and Technology, University of Southern California

 Thesis Title: A contributory web-based application for documenting historic places: French colonial era art deco architecture in Hanoi.
- 2015 Kaveh Shahabi, Ph.D. Student, Computer Science, University of Southern California Dissertation Title: *Scalable evacuation routing in dynamic environments*.
- Kathy Ulloa, M.S., Geographic Information Science and Technology, University of Southern California
 Thesis Title: Exploring the relationship between urban forests and ethnicity in West Covina using GIS and object-based image analysis.
- Jenni Dorsey-Spitz, M.S., Geographic Information Science and Technology, University of Southern California Thesis Title: Modeling contamination of groundwater on Mountain Home, Idaho using the DRASTIC method.
- 2015 Charles Hanley, M.S., Geographic Information Science and Technology, University of Southern California
 Thesis Title: Using VHR multispectral imagery and object-based extraction to discover vernal meadows through vegetative persistence at Fort Ord, California.
- Reina Kahn, M.S., Geographic Information Science and Technology, University of Southern California
 Thesis Title: Geospatial analysis of unintended casualties during combat training, Fort Drum, New

- York.
- 2015 Chad Johnson, M.S., Geographic Information Science and Technology, University of Southern California
 - Thesis Title: Site location suitability analysis for a smart grid network.
- Evan Lue, Ph.D., Geography, University of Southern California

 Dissertation Title: Defining the geospatial needs of an ubiquitous disaster relief organization.
- Jennifer Johnson, M.S., Geographic Information Science and Technology, University of Southern California
 Thesis Title: Firing ranges and social capital: Spatial analysis of social capital in Houston, Texas.
- Andrew Isner, M.S., Geographic Information Science and Technology, University of Southern California
 Thesis Title: Habitat suitability modeling of Mexican Spotted Owl (Strix occidentalis lucida) in Gila National Forest, New Mexico.
- Trinka Gillis, M.S., Geographic Information Science and Technology, University of Southern California

 Thesis Title: Use of remotely sensed imagery to map sudden oak death (Phytophthora Ramorum) in the Santa Cruz Mountains.
- Joshua Harrell, M.S., Geographic Information Science and Technology, University of Southern California

 Thesis Title: An evaluation of soil sampling methods in support of precision agriculture in northeastern North Carolina.
- Elisabeth Sedano, Ph.D., Geography, University of Southern California
 Dissertation Title: Consuming landscape, consuming machine: State, capital, & outdoor advertising in
 Los Angeles.
- Amanda Laur, M.S., Geographic Information Science and Technology, University of Southern California

 Thesis Title: Modeling the spatiotemporal variability of solar radiation on buildings: A case study of Lewis Hall.
- 2013 Amanda Gray, M.S., Geographic Information Science and Technology, University of Southern California

 Thesis Title: Spatial delineation of market areas: A proposed approach.
- Trang VoPham, M.S., Geographic Information Science and Technology, University of Southern California

 Thesis Title: Integrating Landsat and California pesticide exposure estimation at aggregated spatial scales: Accuracy assessment of rurality.
- 2012 Parisa Ghaemi, Ph.D., Computer Science, University of Southern California Dissertation Title: *Generalized optimal location planning*.
- Stephen Gervais, M.S., Geographic Information Science and Technology, University of Southern California
 Thesis Title: Out-of-school suspensions by home neighborhood: A spatial analysis of student suspensions

- in the San Bernardino City Unified School District.
- Jeffry Harrison, M.S., Geographic Information Science and Technology, University of Southern California
 Thesis Title: Onshore wind power systems (ONSWPS): A GIS-based tool for preliminary sitesuitability analysis.
- Holly MacGillivray, M.S., Geographic Information Science and Technology, University of Southern California
 Thesis Title: Spatiotemporal patterns of salt and nutrient contamination in Los Angeles County's groundwater basins.
- Su Jin Lee, Ph.D., Geography, University of Southern California
 Dissertation Title: Effects of home modifications and municipal policies on green cover in Los Angeles
 County.
- Kevin Kelly, M.S., Geographic Information Science and Technology, University of Southern California
 Thesis Title: Different geographic representations of Middle America.
- 2011 Thao Nyugen, Ph.D., Geography, University of Southern California Dissertation Title: *Uncertainty in Geomorphometry*.
- Teri L. Mooney, M.S., Geographic Information Science and Technology, University of Southern California
 Thesis Title: Predicting Hydromantes Shastae occurrences in Shasta County, California.
- 2010 Daniel W. Goldberg, Ph.D., Computer Science, University of Southern California Dissertation Title: *Spatial approaches to reducing error in geocoded data*.
- 2010 Christina Q. Li, Ph.D., Geography, University of Southern California Dissertation Title: Neighborhood green space's impact on residential property Values: Assessing the role of spatial effects.
- Jingfen Sheng, Ph.D., Geography, University of Southern California

 Dissertation Title: Evaluating hydro-climatic systems across large metropolitan regions.
- 2007 Chona E. Sister, Ph.D., Geography, University of Southern California
 Dissertation Title: Park and open space resources in the Greater Los Angeles Metropolitan Region: Who gets what, where?
- Zaria Tatalovich, Ph.D., Geography, University of Southern California Dissertation Title: *Spatio-temporal modeling of risk*.
- Graeme Aggett, Ph.D., Geography, University of Southern California
 Dissertation Title: Advanced geospatial technologies applied to gravel bed river mapping and modeling.
- Yongxin X. Deng, Ph.D., Geography, University of Southern California
 Dissertation Title: Evaluating input data for DEM-based environmental analysis and classification.
- 2004 Christine S. Lam, M.S., Geography, University of Southern California
 Thesis Title: Comparison of Flow Routing Algorithms Used in Geographic Information Systems.
- 2002 Julie R. Eurek, M.S., Geography, University of Southern California

- Thesis Title: Modeling recreational boat traffic on the Sacramento-San Joaquin Delta.
- Yan Xu, M.A., Geography, University of Southern California
 Thesis Title: Spatial predictions of population growth and habitat change in the Santa Monica
 Mountains area, California.
- 1999 Linda E. Gillett, M.S., Geography, Montana State University

 Thesis Title: The use of NDVI to characterize drought in the Northern Great Plains, 1988–1993...
- 1998 Ute Langner, M.S., Geography, Montana State University Thesis Title: *GIS-based crop yield and soil productivity modeling*.
- 1996 Jonathan M. Wheatley, M.S., Geography, Montana State University

 Thesis Title: Using terrain attributes to assist remote sensing vegetation mapping of Northern Great Plains grasslands.
- 1996 Sara T. Stillman, M.S., Geography, Montana State University
 Thesis Title: A comparison of three automated precipitation simulation models: ANUSPLIN,
 MTCLIM-3D, and PRISM.
- 1996 Philip L. Repetto, M.S., Geography, Montana State University
 Thesis Title: Revised universal soil loss equation: Estimation at the landscape scale using GIS.
- 1995 Damian J. Spangrud, M.S., Geography, Montana State University

 Thesis Title: Sensitivity of selected soil and terrain attributes to variations in the number and pattern of input data.
- 1994 Douglas L. Wittren, M.S., Geography, Montana State University Thesis Title: *A viewshed information system for mountain resort area.*
- 1994 Wendi A. Urie, M.S., Geography, Montana State University Thesis Title: *Environmental factors influencing recreational trail condition*.
- Janelle K. Jersey, M.S., Soil Science, Montana State University

 Thesis Title: Assessing the vegetation and hydrologic characteristics of a semi-arid environment using geographic information systems and terrain-based models (Co-Advisor with J.S. Jacobsen).
- 1991 Joseph P. Seney, M.S., Geography, Montana State University Thesis Title: Erosional Impact of Hikers, Horses, Off-Road Bicycles, and Motorcycles on Mountain Trails.
- 1990 John C. Pings, M.S., Geography, Montana State University Thesis Title: Spatial variability of soil redistribution processes in a small agricultural watershed.
- 1989 Kristen E. S. Gerhart, M.S., Geography, Montana State University
 Thesis Title: Evaluating the performance of the soil productivity index model in Cascade County,
 Montana.
- 1988 John H. Ruth, MS, Geology, Montana State University Thesis Title: An assessment of streambank erosion along the North Fork Flathead River.

External Ph.D. Examiner

2016 Anand Sookun, Ph.D., Department of Mathematics, University of Mauritius

- Dissertation title: A geostatistical and GIS-based approach to study the carbon budget and carbon footprint of Mauritius.
- Janet Louise Stein, Ph.D., Centre for Resource & Environmental Studies, Australian National University

Dissertation Title: A continental scale landscape framework for systematic conservation planning for Australian rivers and streams.

- John Dymond, D.Sc., Department of Geography, University of Canterbury

 Dissertation Title: *The role of remote sensing technologies & environmental monitoring in land resource management.*
- Daryl Mummery, Ph.D., School of Geography & Environmental Studies, University of Tasmania Dissertation Title: *The application of landscape, productivity, & environmental modeling to improve plantation site selection and yield prediction.*

Short Courses and Workshops Taught

2018-2019 GIS and Spatial Humanities

One-week short course offered as part of the Dornsife College of Letters, Arts and Sciences and School of Cinematic Arts Digital Humanities Program

- 2008 Introduction to GIS and Spatial Analysis
 - Two-week short course offered as part of the Annenberg Summer Institute in Methods and Statistics, Annenberg School of Communications & Journalism, University of Southern California, Los Angeles, California
- Modeling and Spatial Simulation: Definitions, Calibrations, Visualizations, & Applications
 Five-day short course offered with M. Batty as part of Fourth Annual Summer School on
 Geographic Information Science, Vespucci Initiative for the Advancement of Geographic
 Information Science, Florence, Italy
- 2002-2005 Terrain Analysis: Principles and Applications

Full-day workshop offered four times at Annual International Esri User Conference, San Diego, California

- 2001 Terrain Analysis: Principles and Applications
 Half-day workshop offered at Annual International Esri User Conference, San Diego, California
- 1996-2003 Introduction to ArcView GIS

Two-day workshop offered seventeen times at University of Southern California, Los Angeles, California

- 1996 Terrain Analysis Methods for Environmental Characterization and Modeling
 One-day workshop offered with J.C. Gallant at Third International Conference Integrating GIS
 and Environmental Modeling, Santa Fe, New Mexico
- 1996 Introduction to Arc/Info
 Five-day workshop offered at Montana State University, Bozeman, Montana
- 1996 Introduction to ArcView GIS
 Two-day workshop offered at Fort Lewis College, Durango, Colorado

1995	Reinventing Local Government with GIS One-day workshop offered with J. Magnant at Seventh Annual Montana GIS Conference, Helena, Montana
1995	Introduction to ArcView GIS Two-day workshop offered at Equitable Resources Inc., Billings, Montana
1994-1997	Introduction to ArcView GIS Two-day workshop offered five times at Montana State University, Bozeman, Montana
1994-1995	Introduction to ArcCAD Three-day workshop offered three times at Montana State University, Bozeman, Montana
1994	Local Government GIS Applications One-day workshop offered with J. Magnant at Sixth Annual Montana GIS Conference, Kalispell, Montana
1994	Introduction to ArcCAD Three-day workshop offered at City of Pocatello, Idaho
1994	Introduction to ArcCAD Three-day workshop offered at Power Engineers, Boise, Idaho
1993-1995	Introduction to PC Arc/Info Five-day workshop offered four times at Montana State University, Bozeman, Montana
1993	Geographic Information Systems for Weed Control and Groundwater Protection Half-day workshop offered with D. Cooksey & W.P. Inskeep at Annual Meeting of Montana County Weed Supervisors, Bozeman, Montana
1992-1995	Precision Farming Applications of GIS Two-hour workshop offered four times with D. Griffith as part of Montana State University Crop and Pest Management School, Bozeman, Montana
1992	Precision Farming Applications of GIS Two-hour workshop offered with L.W. Carstensen & C.M. Ryan as part of Montana State University Crop and Pest Management School, Bozeman, Montana
1992	Terrain Analysis and Geographic Information Systems Half-day workshop offered with M. Blongewicz, J.K. Jersey, &d D.L. Wittren at Fifth Annual Montana GIS Conference, Butte, Montana
1992	Remote Sensing and Geographic Information Systems Half-day workshop offered with C. Benkelman, R. Behrendt, & J.K. Jersey at Fifth Annual Montana GIS Conference, Butte, Montana
1991-1995	Introduction to PC Arc/Info Three-day workshop offered seven times at Montana State University, Bozeman, Montana
1991	Teaching GIS Half-day workshop offered with K.K. Kemp, G.L. Benwell, J. Strobl, & N. Waters at GIS/LIS

'91 in Atlanta, Georgia

- 1990 Geographic Information Systems and Applications
 Two-day workshop offered with D. J. Unwin at University of Waikato, Hamilton, New Zealand
- 1990 Introduction to GIS Half-day workshop offered with D.J. Unwin at Waikato Regional Council, Hamilton, New Zealand
- 1990 Introduction to GIS
 One-day workshop offered at Montana State University, Bozeman, Montana in conjunction with
 Western Planning Association Conference

PROFESSIONAL SERVICE

International

- 2019 Member, Scientific Program Committee, Fifth International Conference on GIS and Remote Sensing, Rome, Italy.
- 2018- Associate Editor, International Journal of Disaster Response and Emergency Management
- 2018- Member, Advisory Committee, Copernicus Master of Science in Digital Earth Program, Palacky University Olomouc, University of Salzburg, and University of South Brittany
- 2018-2019 Member, Scientific Program Committee, Eleventh International Conference on Advanced Geographic Information Systems, Applications, and Services, Athens, Greece
- 2018- Member, Editorial Board, Open Geospatial Data, Software and Standards
- 2018-2021 Member, Advisory Board, EO4GEO: Bridging the Skills Mismatch in the Earth Observation Field Project
 - 2018 Member, Scientific Program Committee, Fifth International Geomorphometry Symposium, Denver, Colorado
- 2017-2018 Member, Scientific Program Committee, Fourth International Conference on GIS and Remote Sensing, Berlin, Germany
- 2017-2018 Member, Scientific Program Committee, Tenth International Conference on Advanced Geographic Information Systems, Applications, and Services, Rome, Italy
- 2017-2018 Member, Scientific Program Committee, Tenth International Conference on Geographic Information Science, Melbourne, Australia
 - 2017 Member, Scientific Program Committee, First Geo | Design+BIM Europe Conference, Amsterdam, the Netherlands
 - 2017 Member, Scientific Program Committee, Second International Conference on GIS and Remote Sensing, Munich, Germany
- 2016-2017 Member, Scientific Program Committee, Ninth International Conference on Advanced Geographic Information Systems, Applications, and Services, Nice, France
- 2015-2016 Member, Scientific Program Committee, Seventeenth International Symposium on Spatial Data Handling, Beijing, China
- 2015-2016 Member, Scientific Program Committee, Ninth International Conference on Geographic Information Science (GIScience 2016), Montreal, Quebec
- 2015-2016 Member, Scientific Program Committee, Eighth International Conference on Advanced Geographic Information Systems, Applications, and Services, Venice, Italy

- 2014-2015 Co-organizer and Chair, Educational Pre-Summit Forum, 2015 Geodesign Summit, Redlands, California
- 2014-2015 Member, Scientific Program Committee, Fifth International Geomorphometry Symposium, Poznan, Poland
- 2014-2015 Member, Scientific Program Committee, GIS Ostrava: Surface Models for Geosciences Conference, Ostrava, Czech Republic
- 2014-2015 Member, Scientific Advisory Committee, Thirteenth International Conference on Geo-Computation, Dallas-Fort Worth, Texas
 - 2014 Member, Scientific Program Committee, Second International Conference on CyberGIS & Geodesign, Redlands, California
 - 2014 Member, International Program Committee, IASTED International Conference on Environmental Management & Engineering, Banff, Canada
 - 2014 Co-Chair, Scientific Steering Committee, International Conference of Geo-Process Modeling in Virtual Geographic Environments: Managing & Sharing Geographic Knowledge, Hong Kong
- 2013-2014 Member, Scientific Program Committee, Eighth International Conference on Geographic Information Science (GIScience 2014), Vienna, Austria
- 2012-2013 Member, Scientific Program Committee, Fourth International Geomorphometry Symposium, Nanjing, China
- 2012-2013 Co-organizer and Chair, Vespucci Workshop on Population, Health & Place, Boone Center for Environmental Leadership, Catalina Island, California
- 2012-2013 Member, Scientific Program Committee, Twelfth International Conference on Geo-Computation, Wuhan, China
- 2011- Member, Editorial Board, *Journal of Geospatial Information Science* (Wuhan University/ Taylor and Francis)
- 2011-2012 Member, Scientific Program Committee, Seventh International Conference on Geographic Information Science (GIScience 2012), Columbus, Ohio
- 2011-2012 Member, Steering Committee, Surface Models for the Geosciences, Ostrava-Poruba, Czech Republic
- 2010-2011 Co-Organizer & Chair, Third International Geomorphometry Symposium, Redlands, California
- 2010-2011 Member, Steering Committee, Nineteenth International Conference on Geoinformatics, Shanghai, China
- 2009- Member, Advisory Board, International Collaborative Center for Geo-computation Studies (ICCGS), Wuhan University, Wuhan, China
- 2009-2010 Member, New Zealand Master's GIS Programme Advisory Board
- 2009-2010 Member, Steering Committee, Eighteenth International Conference on Geoinformatics, Beijing, China
- 2009-2010 Member, Scientific Program Committee, IASTED International Conference on Water Resources Management, Garobone, Botswana
- 2008-2009 Member, Scientific Program Committee, Second International Geomorphometry Conference, Zurich, Switzerland
- 2007-2008 Member, Scientific Program Committee, IASTED Environmentally Sound Technology in Water Resource Management Conference, Garobone, Botswana
- 2006-2010 Member, Board of Trustees, Centre for Geographic Information Systems, University of Benin, Benin City, Nigeria
- 2006-2007 Chair, IASTED International Conference on Water Resources Management, Honolulu, Hawaii

- 2006-2007 Chair, IASTED International Conference on Environmental Modeling & Simulation, Honolulu, Hawaii
 - 2006 Organizer and Chair, UNIGIS International Network Annual Business Meeting, Los Angeles, California
- 2005-2006 Member, Program Committee, IASTED Environmental Modeling and Simulation Conference, St. Thomas, U.S. Virgin Islands
- 2005-2006 Member, Program Committee, International Symposium on Digital Terrain Analysis & Terrain Modeling, Nanjing, China
- 2005-2006 Member, Program Committee, IASTED Environmentally Sound Technology in Water Resource Management Conference, Garobone, Botswana
 - 2004 Member, Program Committee, IASTED Environmental Modeling & Simulation Conference, St. Thomas, U.S. Virgin Islands
 - 2004 Member, Program Committee, GIScience 2004 Conference, College Park, Maryland
- 2002-2006 Member, Editorial Board, "Mastering GIS: Technology, Applications, & Management" Book Series, John Wiley and Sons
 - 2002 Member, Program Committee, Open Source GIS-GRASS User's Conference, Trento, Italy
 - 1998 Member, Steering Committee, Status and Trends in Spatial Analysis Workshop, Santa Barbara, California
 - 1996 Co-Organizer, Terrain Analysis Methods for Environmental Characterization & Modeling Workshop, Third International Conference Integrating GIS & Environmental Modeling, Santa Fe, New Mexico
- 1995-1996 Member, Program Committee, Third International Conference Integrating GIS & Environmental Modeling, Santa Fe, New Mexico
 - 1995 Guest Editor, GIS and Environmental Modeling Special Issue (Vol. 9, Issue No. 4), *International Journal of Geographic Information Systems*
- 1992-2001 Member, Editorial Board, Applied Geography, Butterworth-Heinemann

National

- 2019 Member, Nominating Committee, University Consortium for Geographic Information Science
- 2018- Member, Advisory Board, Spatial Epidemiology Laboratory, Department of Population Health, NYU School of Medicine
- 2018-2019 Organizer, Transactions in GIS Plenary, Annual Meeting of the American Association of Geographers, Washington, D.C. (Geoff Boeing, Northeastern University, featured speaker)
- 2018-2019 Member, Scientific Program Committee, Ninth Symposium on Frontiers in Geospatial Data Science, Annual Meeting of the American Association of Geographers, Washington, D.C.
- 2017-2018 Member, Nominating Committee, University Consortium for Geographic Information Science
- 2017-2018 Member, Scientific Program Committee, Eighth Symposium on CyberGIS and Spatial Data Science, Annual Meeting of the American Association of Geographers, New Orleans, Louisiana
- 2017-2018 Member, Scientific Program Committee, Fifth Annual Spatiotemporal Symposium, Annual Meeting of the American Association of Geographers, New Orleans, Louisiana
- 2016-2017 Organizer, Transactions in GIS Plenary, Annual Meeting of the American Association of Geographers, San Francisco, California (Jeremy Mennis, Temple University, featured speaker)
- 2015-2016 Organizer, Transactions in GIS Plenary, Annual Meeting of the Association of American Geographers, San Francisco, California (Amy Lobben, University of Oregon, featured speaker)
 - 2015 Member, Scientific Program Committee, Second Workshop on Privacy in Geographic

- Information Collection and Analysis, Twenty-third Annual ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems, Seattle, Washington
- 2014-2015 Organizer, Transactions in GIS Plenary, Annual Meeting of the Association of American Geographers, Tampa Bay, Florida (Timothy Nyerges, University of Washington, featured speaker)
- 2014-2015 Member, Nominations Committee, University Consortium for Geographic Information Science
 - 2014 Member, Scientific Program Committee, GeoPrivacy: The First Workshop on Privacy in Geographic Information Collection and Analysis, Twenty-second Annual ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems, Dallas, Texas
- 2013- Member, WorldMap Advisory Committee, Center for Geographic Analysis, Harvard University
- 2013- Member, Editorial Board, Association of American Geographers Review of Books
- 2013-2015 Chair, Geographic Information Science & Technology Body of Knowledge 2.0 Task Force, University Consortium of Geographic Information Science
- 2013-2014 Organizer, Transactions in GIS Plenary, Annual Meeting of the Association of American Geographers, Tampa Bay, Florida, (Sean Ahearn, Hunter College, City University of New York, Brandon Plewe, Brigham Young University, & Andre Skupin, San Diego State University, featured speakers)
- 2013-2014 Member, GIScience, GIS, and Public Policy Organizing Committee, Annual Meeting of the Association of American Geographers, Tampa Bay, Florida
- 2013-2014 Co-Organizer (with Sarah Battersby, University of South Carolina), 2014 University Consortium for Geographic Information Science Symposium, Pasadena, California
 - 2013 Member, Nominations Committee, University Consortium for Geographic Information Science
- 2012-2014 Member, Accreditation Task Force, University Consortium for Geographic Information Science
- 2012-2013 Organizer, Transactions in GIS Plenary, Annual Meeting of the Association of American Geographers, Los Angeles, California (Daniel Sui, Ohio State University, featured speaker)
- 2012-2014 Member, Geography and Spatial Sciences Senior Review Panel, National Science Foundation
- 2012-2013 Member, Local Organizing Committee, Annual Meeting of the Association of American Geographers, Los Angeles, California
- 2011-2012 Member, Accreditation Task Force, University Consortium for Geographic Information Science
- 2011-2012 Organizer, Transactions in GIS Plenary, Annual Meeting of the Association of American Geographers, New York, New York (Kathleen Stewart, University of Iowa, featured speaker)
 - 2011 Ad-Hoc Member, Population Sciences and Epidemiology Integrated Review Group, Social Sciences and Population Studies Study Section
- 2010-2011 Member, Nominations Committee, University Consortium for Geographic Information Science
- 2007-2010 Treasurer, University Consortium for Geographic Information Science
- 2007-2008 Chair, Nominations Committee, University Consortium for Geographic Information Science
- 2007-2008 Past-President, University Consortium for Geographic Information Science
- 2006-2009 Member, External Advisory Board, Decision Center for a Desert City (DCDC), Arizona State University, Tempe, Arizona
- 2006-2009 Member, Editorial Board, Annals of the Association of American Geographers
- 2006-2007 Member, Committee on Research Priorities for the United States Geological Survey Center of Excellence for Geospatial Information Science, Mapping Science Committee, Board on Earth Sciences and Resources, National Research Council
- 2006-2007 President, University Consortium for Geographic Information Science
 - 2006 Member, Education Award Subcommittee, University Consortium for Geographic Information

Science

- 2006 Organizer, Green Visions Plan for 21st Century Southern California Sessions, Annual Meeting of the Association of American Geographers, Chicago, Illinois
- 2005-2006 President-Elect, University Consortium of Geographic Information Science
 - 2004 Member, Executive Director Search Committee, University Consortium of Geographic Information Science
- 2003-2005 Member, Research Projects Committee, University Consortium for Geographic Information Science
 - 2003 Organizer, University Consortium for Geographic Information Science Summer Assembly, Asilomar, California
- 2002-2005 Member, Board of Directors, University Consortium for Geographic Information Science
- 2002-2005 Chair, Research Committee, University Consortium for Geographic Information Science
- 1999-2000 Member, Instrumentation Program Panel, Division of Behavioral and Cognitive Sciences, National Science Foundation
 - 1998 Judge, Student Poster Competition Sponsored by the Cartography, Geographic Information Systems and Remote Sensing Specialty Groups, Annual Meeting of the Association of American Geographers, Boston, Massachusetts
- 1996-1998 Member, Geographic Information Science Core Curriculum Editorial Committee, National Center for Geographic Information and Analysis, University of California at Santa Barbara
- 1996-1998 Secretary/Treasurer, Geographic Information Systems Specialty Group, Association of American Geographers
- 1995-1997 Member, Doctoral Dissertation Awards Panel, Geography and Regional Science Program, National Science Foundation
 - 1993 Member, U.S. Department of Agriculture-Cooperative States Research Service Facility Review Team, College of Agriculture, New Mexico State University, Las Cruces, New Mexico
 - 1990 Organizer, "Young Scholars in Applied Geography" Session, Annual Meeting of the Association of American Geographers, Toronto, Ontario
- 1989-1991 Member, Soil Resources Variability Workgroup, Workshop on Research and Development Issues in Soil Specific Crop Management, U.S. Department of Agriculture-Agricultural Research Service, Cooperative States Research Service and Soil Conservation Service, and the College of Agriculture, University of Minnesota, Bloomington, Minnesota
- 1989-1991 Chair, Applied Geography Specialty Group, Association of American Geographers
 - 1990 Co-Organizer, Precision Farming in the 90's Workshop, Power, Montana
 - 1989 Co-Organizer, Greater Yellowstone Ecosystem Modeling Workshop, Montana State University, Bozeman, Montana
- 1988-1990 Member, Phoenix Research Career Seminar, Association of American Geographers
- 1988-1989 Editor, Applied Geography Specialty Group Newsletter, Association of American Geographers
- 1986-1991 Chair, Nominations and Elections Committee, Applied Geography Specialty Group, Association of American Geographers
- 1986-1989 Member, Board of Directors, Applied Geography Specialty Group, Association of American Geographers
 - 1985 Program Chair, Annual Meeting of the Great Plains/Rocky Mountain Division, Association of American Geographers, Bozeman, Montana

State / County

- 2018-2019 Member, Los Angeles County Voting Systems Assessment Project Technical Advisory Committee
- 2013-2014 Chair, Organizing Committee, Fourth Annual Los Angeles Geospatial Summit
- 2012-2013 Chair, Organizing Committee, Third Annual Los Angeles Geospatial Summit
- 2011-2012 Chair, Organizing Committee, Second Annual Los Angeles Geospatial Summit
- 2010-2011 Chair, Organizing Committee, First Annual Los Angeles Geospatial Summit
 - 1996 Member, Montana Department of Administration Parcel Mapping Coordinator Search Committee
 - 1996 Organizer, Reinventing Local Government with GIS Workshop, Eighth Annual Montana GIS Conference, Helena, Montana
 - 1995 Organizer, Local Government GIS Applications Workshop, Seventh Annual Montana GIS Conference, Kalispell, Montana
 - 1994 Guest Editor, Vol. 4, Issue No. 1, *Montana Policy Review* (Local Government Applications of GIS, Special Issue)
 - 1991 Organizer and Chair, Fourth Annual Montana GIS Conference Organizing Committee, Bozeman, Montana
- 1990-1996 Member, Montana Interagency GIS Management Steering Committee
 - Organizer, "Geographic Information Systems: Innovative Applications and Diverse Capabilities" Session, Second Annual Montana GIS Conference, Billings, Montana
- 1988-1992 Member, Montana State Mapping Advisory Committee
- 1988-1989 Member, Montana Interagency GIS Technical Steering Committee

University

University of Southern California

- 2019- Member, Faculty Online Advisory Group
- 2018-2019 Member, Task Force on Interdisciplinary Communities, Academic Senate
- 2018-2019 Member, Campus Climate Committee, Academic Senate
- 2015-2016 Member, Joint Provost-Academic Senate Committee on Information Services
 - 2015 Member, USC School of Pharmacy Online Program Review Committee
- 2013-2014 Member, Faculty Advisory Task Force on Opportunities for Place-Based Research Within USC Target Communities
- 2012-2013 Member, Multimedia Scholarship Advisory Committee
- 2012-2013 Chair, Geodesign Academic Program Advisory Committee
- 2010- Administrator, Esri Campus Site License Program
- 2010-2013 Member, Research Committee
- 2009-2010 Member, Learning Environments Task Force
- 2009-2010 Chair, Spatial Sciences Faculty Advisory Committee
- 2006-2007 Member, Social Science Data Librarian Search Committee
- 2004- University Ambassador
- 2003-2004 Member, VKC Applied Social Sciences Library Redesign Task Force
- 2002-2004 Marshall, University of Southern California Commencement
- 2002-2003 Chair, Joint Provost-Academic Senate Distance and Distributed Learning Committee
- 2002-2003 Member, E-Mail Retention and Archiving Committee
- 2002-2003 Member, Lusk Real Estate Center Research Committee

2002	Member, Organizing Committee, GIS and Spatial Statistics in Environmental
	Epidemiology Workshop, Pasadena, California
2000-2002	Member, Joint Provost-Academic Senate Distance Education and Distributed Learning Committee
1998-	Lead Delegate, University Consortium of Geographic Information Science
1998-2005	Faculty Affiliate, Lusk Real Estate Center
	Member, Distance Education Curriculum Committee
1997-	Lead Delegate, UNIGIS International Network
1997-1999	Member, Integrated Digital Archives/Information System Los Angeles Executive Committee
1997-1998	Member, Graduate and Professional Studies Curriculum Committee
USC Dana	and David Dornsife College of Letters, Arts and Sciences
2018	Member, Associate Dean for Master's and Professional Education Search Committee
2016-2017	Member, Wrigley Institute for Environmental Studies Director Search Committee
2014-	Member, Environmental Studies Program Advisory Committee
2014-	Member, Wrigley Marine Science Center Research Advisory Committee
2014-	Member, Interdisciplinary Archaeology Program Advisory Committee
2013-	Member, Population Research Center Internal Advisory Committee
2013-2015	Member, Environmental Sustainability Task Force
2011-2013	Member, Non-Tenure Track (NTT) Promotions and Appointments Committee
2010-2013	Member, Albert S. Raubenheimer Award Review Committee
2008-2010	Member, Wrigley Institute for Environmental Studies Strategic Planning Advisory Committee
2008-2010	Member, Wrigley Institute for Environmental Studies Oversight & Resources Committee
2006-2007	Member, Department of Earth Sciences Climate Faculty Search Committee
2005-2006	Chair, Social Sciences Personnel Committee
2004-2005	Member, General Education Program Review Committee
1998-2001	Member, Environmental Studies Program Advisory Board
1997-2001	Faculty Affiliate, Environmental Studies Program
1997-1998	Member, Academic Computing and Technology Committee
Departmen	t of Economics
2018-2019	Member, Spatial Econometrics Faculty Search Committee
Departmen	t of Geography
2006-2007	Chair, Faculty Review Committee
2006-2007	Chair, Urban Environmental Faculty Search Committee
2005-2007	Director, Graduate Studies
2005-2006	Chair, Faculty Review Committee
2005-2006	Chair, GIS and Health Faculty Search Committee
2004-2005	Chair, Faculty Review Committee
2002-2003	Chair, Faculty Review Committee
1998	Member, Administrative Assistant II Search Committee
1997-1998	Chair, GIS Research Faculty Search Committee
1997-1998	Member, Faculty Review Committee

Departmen	t of Sociology			
2017-2018	Chair, Faculty Promotion and Tenure Committee (Ann Owens)			
2017-2018	Member, RTPC Faculty Promotion Committee (Juliana McGene)			
2016-2017	Member, Sociology and Centers Integration Committee			
2016-2017	Member, Website and Wiki Committee			
2013-2014	Chair, Faculty Review Committee			
2013-2014	Chair, Quantitative Social Demography Faculty Search Committee			
2013-2014	Chair, Space Policy Committee			
2013-2014	Member, Website Committee			
School of Ir	nternational Relations			
2015-2016	Member, Spatial Analysis/International Affairs Faculty Search Committee			
Spatial Scie	nces Institute			
2018	Chair, Assistant Professor (Research) Search Committee			
2017	Chair, Administrative Assistant I Search Committee			
2017	Chair, Fiscal Administrator Search Committee			
2016-	Chair, Population, Health, and Place PhD Program Admissions Committee			
2016	Chair, GIS Project Specialist Search Committee			
2013	Chair, Assistant Professor (Research) Search Committee			
2013	Chair, Project Manager Search Committee			
2013	Chair, Associate Director Search Committee			
2012	Chair, GIS Programmer I Search Committee			
2012	Chair, Spatial Sciences Post-Doctoral Fellow Search Committee			
2012	Chair, GIS Project Specialist Search Committee			
2010-	Chair, Faculty (Teaching) Search Committee			
2010-	Founding Director			
2010-2011	Member, Secretary II Search Committee			
USC Keck	School of Medicine, Department of Preventive Medicine			
	Member, Environmental Health Community Outreach & Engagement Faculty Search			
	Committee			
2011-	Member, Southern California Environmental Health Sciences Center Executive Committee			
USC School	of Architecture			
2017-2018	Member, Faculty Promotion and Tenure Committee (Travis Longcore)			
	Member, Urban Spatial Ecology Faculty Search Committee			
Montana St	tate University			
1995-1999	Faculty Affiliate, Mountain Research Center			
1995-1997	Member, Mountain Research Center Faculty Advisory Council			
1993-1995	Member, University Computer Policy Committee			
1985	Member, World Population Day Planning Committee			
MSU Department of Earth Sciences				
-	Chair, Promotion and Tenure Committee			
1993	Chair, Urban/Economic Geography Faculty Search Committee			
1992	Member, Administrative Assistant Search Committee			
	Member, Promotion and Tenure Committee			

1987-1993 Chair, Geography Graduate Program Committee

1986 Member, Cultural/Historical Geography Search Committee

MSU Geographic Information and Analysis Center

1993 Chair, Post-Doctoral Fellow Search Committee

1993 Chair, Administrative Assistant Search Committee

1989-1996 Chair, Geographic Information and Analysis Center Advisory Board

ACADEMIC REVIEWS

Academic Journal Reviews

Air Quality, Atmosphere, and Health

American Entomologist

Annals of Epidemiology

Annals of the Association of American Geographers

Applied Geography

Building and Environment

Canadian Journal of Soil Science

Catena

Computers and Geosciences

Computers, Environment, and Urban Systems

Earth Science Informatics

Earth Surface Processes and Landforms

Ecohydrology

Environment and Planning A

Environmental Management

Environmental Modeling and Software

Environmental Monitoring and Assessment

Environmental Processes

Environmental Science and Technology

Geographical Analysis

Geography Compass

GeoJournal

Hydrological Processes

Hydrology Research

Hydrology and Earth System Sciences

International Journal of Applied Earth Observation and Geoinformation

International Journal of Geographical Information Science

Journal of Environmental Management

Journal of Environmental Quality

Journal of Geographical Systems

Journal of Hydraulic Engineering

Journal of Hydrology

Journal of the American Water Resources Association

Journal of Soil and Water Conservation

Mountain Research and Development

Physical Geography

Photochemistry and Photobiology

Photogrammetric Engineering and Remote Sensing

PLoS One

Progress in Physical Geography

Soil Science Society of America Journal

Transactions on Spatial Algorithms and Systems

Water Resources Bulletin

Water Resources Research

Academic Program Reviews

2017	Master in Geosciences (MGsc), Geographic Information Science & Technology Option,
	Department of Geography, College of Geosciences, Texas A&M University
2015	Master Program in Geographic Information Systems & Science & Geospatial Intelligence
	Certificate Program, Information Management School, Universidade NOVA de Lisboa
2015	School of Pharmacy, University of Southern California
2012	Center for Geographic Analysis, Harvard University
2007	Department of Geosciences, University of Texas at Dallas
2007	Applied Geosciences & GIS Master's Program, Department of Earth & Environmental Sciences
	and Department of Geography, Kuwait University, Kuwait City, Kuwait
2001	National Environmental Satellite, Data, & Information Service Science Programs, National
	Oceanic & Atmospheric Administration, Washington, D.C.

Book Manuscripts and Proposals

Blackwell Science

British Society for Geomorphology

Elsevier Science/Academic Press

John Wiley and Sons

McGraw-Hill Publishing

Oxford University Press

Routledge

Sage Publications

Saunders College Publishing

Springer

Taylor and Francis

Promotion and Tenure Reviews

Arizona State University

Australian National University

Bowling Green State University

Florida State University

Hong Kong Baptist University

Hunter College, City University of New York

San Francisco State University

State University of New York at Buffalo

Temple University

Texas A&M International University

Texas A&M University, Corpus Christi

Texas State University

The Ohio State University

University of California, Berkeley

University of California, Santa Barbara

University of Canberra (Australia)

University of Colorado, Boulder

University of Connecticut

University of Georgia

University of Idaho

University of Maryland, College Park

University of Oregon

University of South Carolina

University of South Florida

University of Waterloo (Canada)

University of Wisconsin, Madison

University of Wisconsin, Milwaukee

Proposal Reviews

American Association for the Advancement of Science

King Adbulaziz Program for Science and Technology

California State University Agricultural Research Institute

Canada Foundation for Innovation

Leaders Opportunity Fund

CRDF Global

ETH Zurich Research Commission

Indo-US Science and Technology Forum

Montana Agricultural Experiment Station

National Geographic Society

National Institutes of Health

Social Sciences and Population Studies Study Section

National Oceanic and Atmospheric Administration Science Advisory Board

National Science Foundation

Archaeology Program

Career Awards Program

Conservation Biology Program

Division of Behavioral and Cognitive Sciences Instrumentation Program

Environmental Geochemistry and Biogeochemistry Program

Geography and Regional Science Program

Geography and Spatial Sciences Program

Geology and Paleontology Program

Human Dimensions to Global Change Program

Hydrologic Sciences Program

Instrumentation and Laboratory Improvement Program

Small Business Innovative Research Program

Natural Environment Research Council (UK)

New Investigator Scheme

Natural Sciences and Engineering Research Council of Canada

Discovery Grants Program

Netherlands Organization for Scientific Research

TOP-Grants for Curiosity-driven Research for Astronomy, Computer Science and Mathematics Program

Royal Society of New Zealand

Marsden Fund

Science Foundation Ireland

SFI Centres for Research Training Programme

Singapore National Research Foundation

Competitive Research Program

South Carolina Space Grant Consortium

Research and Education Awards Program

University of Southern California

Center for Scholarly Technology Barn Raising, Curriculum Design, and Jumpstart Programs

James H. Zumberge Faculty Research and Innovation Fund

Southern California Environmental Health Sciences Center

University of Wisconsin-Milwaukee

Research Growth Initiative Program

U.S. Department Agriculture-Cooperative States Research Service

Fund for Rural America Program

Soils and Soil Biology Program

Water Processes and Water Resources Program

Wisconsin Sea Grant Program

PROFESSIONAL CERTIFICATIONS

1994-2003 Certified ArcView Instructor, Esri, Inc., Redlands, California

1993-1998 Certified ArcCad Instructor, Esri, Inc., Redlands, California

1990-1998 Certified PC Arc/Info Instructor, Esri, Inc., Redlands, California

PROFESSIONAL SOCIETY MEMBERSHIPS

Association of American Geographers

Association of Pacific Coast Geographers

Los Angeles Geographical Society

National Geographic Society

Society for Conservation GIS

Urban and Regional Information Systems Association

Dr. John P. Wilson