

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 and the Wilson Map Lab. He also holds appointments as Professor in the School of Architecture, in the Keck School of Medicine of USC's Department of Population and Public Health Sciences, and in the Viterbi School of Engineering's Departments of Computer Science and Civil and Environmental Engineering.

From 1997 to 2010, he was a professor in the Department of Geography at USC, serving two terms as chair from 1998 to 2001 and from 2007 to 2010. From 1992 to 1997, he was Professor of Geography in the Departments of Earth Sciences and Plant and Soil Science, and Founding 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 (1990-1994) in Earth Sciences and Plant and 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, the University of Canterbury, the University of Chinese Academy of Sciences, the University of Utrecht, the 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 *Geo-Spatial Information Science*, *International Journal of Disaster Response and Emergency Management*, and the *ISPRS International Journal of Geo-Information*. He has previously served on the editorial boards of the *Annals of the American Association of Geographers*, the *AAG Review of Books*, *Applied Geography*, and *Open Geospatial Data, Software, & Standards*. He has chaired the Applied Geography Specialty Group of the American Association of 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 coupled 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-Blackwell, 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 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 AAG (2021) and a Fellow of the UCGIS (2014). He also received the GIS Education Award from the UCGIS (2019), a Lifetime Achievement Award from the International Association of Chinese Professionals in Geographic Information Science (2016), 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).

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CURRICULUM VITAE

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JOHN P. WILSON

Spatial Sciences Institute
Dana and David Dornsife College of Letters, Arts and Sciences
University of Southern California
3616 Trousdale Parkway, AHF B55F
Los Angeles, CA 90089-0374
Ph: (213) 740-1908; Fax: (213) 740-9687
E-mail: jpwilson@usc.edu
Web: <http://johnwilson.usc.edu/>

CURRENT APPOINTMENTS

University of Southern California

- 2021- Spatial Sciences Lead, Methods and Data Core, Southern California Center for Chronic Health Disparities in Latino Families and Children
- 2020- Co-Director, Exposure Factors Facility Core, Southern California Environmental Health Sciences Center
- 2018- Professor, Department of Population and Public Health Sciences
- 2016- Director, Wilson Map Lab
- 2016- Spatial Sciences Lead, Clinical Research Informatics, Southern California Clinical and Translational Science Institute
- 2011- Professor, Department of Sociology
- 2010- Professor and Founding Director, Spatial Sciences Institute
- 2010- Professor, School of Architecture
- 2006- Professor, Department of Computer Science
- 2006- Professor, Department of Civil and Environmental Engineering

Blackwell/Wiley

- 1998- Editor, Transactions in GIS

University Consortium for Geographic Information Science

- 2015- Editor, 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 (2nd Class, 2nd Division), Law, University of Canterbury, New Zealand

PROFESSIONAL EXPERIENCE

University of Chinese Academy of Sciences

- 2017-2020 Professor, College of Resources and Environment
- 2014-2020 Research Professor, Institute of Geographical Sciences and Natural Resources Research
- 2014-2018 Research Professor, Thousand Talents of Foreign Experts Program, Institute of Geographical Sciences and Natural Resources Research
- 2010-2014 Research Professor, Institute of Geographical Sciences and Natural Resources Research

University of Southern California, Los Angeles, California

- 2014-2020 GIS Lead, Spatial and Exposure Analytics Facility Core, Southern California Environmental Health Sciences Center
- 2008-2014 GIS Lead, Integrative Health Sciences Facility Core, Southern 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
- 1997-2010 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

Geo-Information International

- 1995-1997 Editor, 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

- 1992-1997 Professor, Department of Earth Sciences
- 1992-1997 Professor, Department of Plant and Soil Science
- 1990-1992 Associate Professor, Department of Earth Sciences
- 1990-1992 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

- 1982-1984 Instructor, Department of Geography
- 1979-1982 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

- 2021 Fellow, American Association of Geographers
2020 Invited Full Member, Sigma Xi
2019 Second Place, Communicating Science Spatially Category, Map Gallery, Esri User Conference (Carrera Ruedas, E., Nie, L., Whipple, C., MacDonald, B., Wilson, J.P. 2019. Superblocks for Los Angeles: Sustainable urban alternatives evaluated with geodesign. Map Presentation, Esri User Conference, San Diego, CA)
2019 Education Award, University Consortium for Geographic Information Science
2016 Lifetime Achievement Award, International Association of Chinese Professionals in Geographic Information Science
2015 Best Professional Paper (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 User Conference
2006 Special Achievement in GIS Award for Leadership in Geospatial Teaching, Esri 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

- 2018 **Wilson, J.P.**, *Environmental applications of digital terrain modeling*. Wiley-Blackwell.
- 2008 **Wilson, J.P.**, Fotheringham, A.S. (Eds.), *Handbook of geographic information science*. Blackwell.
- 2000 **Wilson, J.P.**, Gallant, J.C. (Eds.), *Terrain analysis: Principles and applications*. John Wiley and Sons.

Book Chapters

- 2021 **Wilson, J.P.**, Recent advances and challenges in geomorphometry. In M.P. Bishop, J.R. Giardino (Eds.), *Treatise in geomorphology: Technology-driven geomorphology, geospatial data science and geochronology* (Vol. 3, 2nd ed., pp. 141-168). Elsevier.
- 2019 Swift, J.N., **Wilson, J.P.**, Northeast Los Angeles climate change adaptation: United States. In C. Steinitz, B. Orland, T. Fisher (Eds.), *The International Geodesign Collaboration: Changing geography by design* (pp. 108-109). Esri Press.
- 2019 **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* (pp. 3-28). Springer.
- 2014 **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). Springer.
- 2013 **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). Academic Press.
- 2012 **Wilson, J.P.**, Goodchild, M.F., Rethinking spatial sciences education programs. In T. Jekel, A. Car, J. Strobl, G. Griesebner (Eds.), *Geoinformatics Forum 2012: Geovisualization, society and learning conference proceedings* (pp. 242-245). Wichmann.
- 2012 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). APA Planners Press.
- 2008 **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* (Lecture Notes in Geoinformation and Cartography, pp. 213-236). Springer.
- 2008 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). CRC.
- 2008 **Wilson, J.P.**, Deng, Y.X., Terrain analysis. In K.K. Kemp (Ed.), *Encyclopedia of geographic information science* (pp. 465-467). Sage.
- 2008 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). Blackwell.
- 2008 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). Blackwell.

- 2004 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). University of Minnesota Press.
- 2000 **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). John Wiley and Sons.
- 2000 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). John Wiley and Sons.
- 2000 **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). John Wiley and Sons.
- 2000 **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). John Wiley and Sons.
- 2000 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). John Wiley and Sons.
- 2000 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). 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). Taylor and Francis.
- 1999 **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). 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). 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). John Wiley and Sons.
- 1995 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). 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). Oxford University Press.
- 1990 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). International Association of Hydrological Sciences.
- 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). University of Canterbury.

- 1981 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). Institute for Environmental Studies, University of Toronto.
- 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). Institute for Environmental Studies, University of Toronto.

Refereed Journal Articles

- 2023 Wolfswinkel, E.M., Howell, A.C., MacDonald, B., **Wilson, J.P.**, Howell, L.K. American Indian Alaskan Native access to appropriate cleft lip and palate treatment. *The Cleft Palate-Craniofacial Journal*, in press.
- 2023 Yang, J., Chen, Y., **Wilson, J.P.**, Chun, Y., Chen, Y., Su, H. A zero-inflated spatiotemporal analysis for snowpack variations and influence of environmental factors in the northern hemisphere. *Journal of Hydrology*, 616, 128760.
- 2023 Li, Q., Li, A., Li, C., Zhang, Y., Deng, Q., Fang, H., Zhao, B., Ran, M., Song, L., Xue, J., Tao, Q., Huang, R., Li, Y., Zhou, W., Wang, J., **Wilson, J.P.** The driving factors and buffering mechanism regulating cropland soil acidification across the Sichuan Basin of China. *Catena*, 220(Part A), 106688.
- 2022 Li, A., Deng, Q., Fang, H., Zhang, Y., Li, C., Dai, T., Chen, C., Wang, J., Fan, Z.M., Shi, W., Zhao, B., Tao, Q., Huang, R., Li, Y., Xu, Q., Wu, D., Yuan, D., Gao, Q., Li, B., Wang, C., **Wilson, J.P.**, Li, Q.Q. Divergent responses of cropland soil organic carbon to warming across the Sichuan Basin of China. *Science of the Total Environment*, 851(Part 2), 158323.
- 2022 Liu, X., Chen, M., Claramunt, C., Batty, M., Kwan, M.-P., Senousi, A., Cheng, T., Strobl, J., Coltekin, A., **Wilson, J.P.**, Bandrova, T., Konecny, M., Torrens, P., Zhang, F., He, L., Wang, J., Ratti, C., Kolditz, O., Klippel, A., Li, S., Lin, H., Lü, G., Geographic information science in the era of geospatial big data: A cyberspace perspective. *The Innovation*, 3(5), 100279.
- 2022 Xu, Y., Yi, L., Cabison, J., Rosales, M., O'Sharkey, K., Chavez, T., Lurmann, F., Bastain, T., Breton, C., Wilson, J.P., Habre, R., The impact of GPS-derived activity spaces on personal PM2.5 exposures in the MADRES cohort. *Environment Research*, 214(Part 2), 114029.
- 2022 Cushing, A., Khan, M.A., Kysh, L., Liberman, D., **Wilson, J.P.**, Shaban-Nejad, A., Brakefield, W.S., Ammar, N., Espinoza, J. Geospatial data in pediatric asthma: A scoping review protocol. *JBI Evidence Synthesis*, 10.11124, JBIES-21-00284.
- 2022 Zhang, L., **Wilson, J.P.**, Zhao, N., Zhang, W., Wu, Y., The dynamics of cardiovascular and respiratory deaths attributed to long-term PM2.5 exposures in global megacities. *Science of the Total Environment*, 842, 156951.
- 2022 Leventhal, A.M, Cho, J., Ray, L.A., Pacula, R.L., Lee, B.P, Terrault, N., Pedersen, E., Lee, J.O., Davis, J.P, Jin, H., Huh, J., **Wilson, J.P.**, Whaley, R.C. Alcohol use trajectories among U.S. adults during the first 42 weeks of the COVID-19 pandemic. *Alcoholism: Clinical and Experimental Research*, 46, 1062-1072.
- 2022 Yue, T.-X., Liu, Y., Du, Z.-P., Wilson, J.P., Zhao, D.-Y., Wang, Y., Zhao, N., Shi, W.-J., Fan, Z.-M., Zhao, X.-M., Zhang, Q., Huang, H.-S., Wu, Q.-Y., Zhou, W., Jiao, Y.-M., Xu, Z., Li, S.-B., Yang, Y., Fu, B.-J., Quantum machine learning of eco-environmental surfaces. *Science Bulletin*, 67, 1031-1033.
- 2022 Everhart, A.R., Ferguson, L., **Wilson, J.P.** Construction and validation of a spatial database of providers of transgender hormone therapy in the US. *Social Science and Medicine*, 303, 115014.

- 2022 Quan, J., Xu, Y., Ma, T., **Wilson, J.P.**, Zhao, N., Ni, Y. Improving surface water quality of the Yellow River Basin due to anthropogenic changes. *Science of the Total Environment*, 836, 155607.
- 2022 Zhang, L., Zhao, N., Zhang, W., **Wilson, J.P.** Changes in long-term PM_{2.5} pollution in the urban and suburban areas of China's three largest urban agglomerations from 2000 to 2020. *Remote Sensing*, 14, 1716.
- 2022 Yi, L., Xu, Y., Eckel, S.P., O'Connor, S., Cabison, J., Chu, D., Chavez, T., Mason, T., Bastain, T., Breton, C., Dunton, G., **Wilson, J.P.**, Habre, R. Time-activity and daily mobility patterns during pregnancy and early postpartum: Evidence from the MADRES cohort. *Spatial and Spatio-temporal Epidemiology*, 41, 100502.
- 2022 Chen, M., Chen, Y., **Wilson, J.P.**, Tan, H., Chu, T. Using an eigenvector spatial filtering based spatially varying coefficient model to analyze the spatial heterogeneity of COVID-19 and its influencing factors in mainland China. *ISPRS International Journal of Geo-Information*, 11, 1511172.
- 2021 Li, K., Sward, K., Deng, H., Morrison, J., Habre, R., Franklin, M., Chiang, Y.-Y., Ambite, J.-L., **Wilson, J.P.**, Eckel, S.P. Using dynamic time warping self-organizing maps to characterize diurnal patterns in environmental exposures. *Scientific Reports*, 11, 24052.
- 2021 Tan, H., Chen, Y., **Wilson, J.P.**, Zhou, A., Chu, T., Self-adaptive bandwidth eigenvector spatial filtering model for estimating PM_{2.5} concentrations in the Yangtze Delta region of China. *Environmental Science and Pollution Research*, 28, 67800–67813.
- 2021 Thompson, L.K., Langholz, B., Goldberg, D.W., **Wilson, J.P.**, Ritz, B., Tayour, C., Cockburn, M.G. Area-based geocoding: A novel approach to exposure assessment incorporating positional uncertainty. *GeoHealth*, 5(12), e2021GH000430.
- 2021 Li, Q.Q., Deng, Q., Fang, Y., Yu, X., Fan, Z.-M., Du, Z.-P., Li, M., Tao, Q., Song, W., Zhao, B., Chen, C., Huang, R., Yuan, D., Gao, X., Li, B., Wang, C., **Wilson, J.P.**, Factors affecting cadmium accumulation in the soil profiles in an urban agricultural area. *Science of the Total Environment*, 807, 151027.
- 2021 Lin, Y., McGaughey, T., **Wilson, J.P.**, Effects of programs and interventions related to the social environment on childhood and adolescent obesity: A systematic search for and scoping review of natural experiments. *Health and Place*, 72, 102689.
- 2021 Zhao, M., Yang, J., Zhao, N., Xiao, X., **Wilson, J.P.**, Yue, T.X., Estimation of the relative contributions of forest areal expansion and growth to China's forest stand biomass carbon sequestration from 1977 to 2018. *Journal of Environmental Management*, 300, 113757.
- 2021 Zhou, A., Chen, Y., **Wilson, J.P.**, Su, H., Xiong, Z., Cheng, Q., An enhanced double-filter deep residual neural network for generating super resolution DEMs. *Remote Sensing*, 13, 3089.
- 2021 Su, F., Fu, D., Yan, F., Xiao, H., Pan, T., Xiao, Y., Kang, L., Zhou, C., Meadows, M., Lyne, V., **Wilson, J.P.**, Zhao, N., Yang, X., Liu, G., Rapid greening response of China's 2020 spring vegetation to COVID-19 restrictions: Implications for climate change. *Science Advances*, 7, eabe8044.
- 2021 Zhao, M., Yang, J., Zhao, N., Liu, L., Du, L., Xiao, X.M., Yue, T.X., **Wilson, J.P.**, Spatially explicit changes in forest biomass carbon of China over the past 4 decades: Coupling long-term inventory and remote sensing data. *Journal of Cleaner Production*, 316, 128274.
- 2021 Miller, S., Bruine de Bruin, W., Livings, M., **Wilson, J.P.**, Weber, K., Frazzini, A., Babboni, M., de la Haye, K., Self-reported dietary changes among LA County adults during the COVID-19 pandemic. *Appetite*, 166, 105586.

- 2021 **Wilson, J.P.**, Butler, K., Gao, S., Hu, Y., Li, W., Wright, D.J., A five-star guide for achieving replicability and reproducibility when working with GIS software and algorithms. *Annals of the American Association of Geographers*, 110(5), 1311-1317.
- 2021 Wu, Q., Chen, Y., **Wilson, J.P.**, Tan, H., Chu, T., A FPN_TFN algorithm for calculating the slope length factor (L) in the Revised Universal Soil Loss Equation. *Journal of Soil and Water Conservation*, 76(2), 153-165.
- 2021 Yue, T.X., Fan, B., Zhao, Y.P., **Wilson, J.P.**, Wang Q., Yin, X.Z., Duan, X.N., Du, Z.P., Zhao, N., Fan, Z.M., Lin, H., Zhou, C.H., Dynamics of the COVID-19 basic reproduction numbers in different countries. *Science Bulletin*, 66(3), 229-232.
- 2020 Yang, J., Chen, Y., **Wilson, J.P.**, Tan, H., Cao, J., Xu, J., Land cover pattern simulation using an eigenvector spatial filtering method in Hubei Province, China. *Earth Science Informatics*, 13(4), 989-1004.
- 2020 Zhang, L., **Wilson, J.P.**, MacDonald, B., Zhang, W., Yu, T., The changing PM2.5 dynamics of global megacities based on long-term remotely sensed observations. *Environment International*, 141, 105862.
- 2020 Li, Q.Q., Li, A., Dai, T., Fan, Z.M., Luo, Y., Li, S., Yuan, D., Zhao, B., Tao, Q., Wang, C., Li, B., Gao, X., Li, Y., Li, H., **Wilson, J.P.**, Depth-dependent soil organic carbon dynamics of croplands across the Chengdu Plain of China from the 1980s to the 2010s. *Global Change Biology*, 26, 4134-4146.
- 2020 Yue, T.X., Fan, Z.M., Fan, B., Du, Z.P., **Wilson, J.P.**, Yin, X.Z., Zhao, N., Wang, Y.A., Zhou, C.H., A new approach to modeling the fade-out threshold of coronavirus disease. *Science Bulletin*, 65, 1225-1227.
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- 1996 **Wilson, J.P.**, "Mountain Environments and Geographic Information Systems" by M.F. Price, D.I. Heywood (Eds.), *New Zealand Geographer*, 52, 50.
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Aggett, G.R., **Wilson, J.P.** Object-oriented, fuzzy-based classification of hydrogeomorphic features from multispectral satellite and LiDAR terrain data. *Remote Sensing* (submitted 4/22).

Berelson, W., Rollins, N., Johnson, E., Margulies, E., Casas, N., MacDonald, B., Kim, J., **Wilson, J.P.** A portable sensor for the determination of tree canopy air quality. *Environmental Sciences: Atmospheres* (submitted 12/22).

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Everhart, A.R., Ferguson, L., **Wilson, J.P.** Measuring geographic disparities in access to transgender hormone therapy in Texas: A three-step floating catchment area analysis. *Spatial and Spatiotemporal Epidemiology* (revised and resubmitted, 12/22).

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Kamel Boulos, M.N., **Wilson, J.P.** GIS and remote sensing for climate change monitoring and mitigation. *International Journal of Health Geographics* (submitted 12/22).

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Livingston, M., Bruine de Bruin, W., **Wilson, J.P.**, Lee, B.Y., Xu, M., Weber, K., Babboni, M., de la Haye, K. Under-reporting of food insecurity in surveys that ask participants to recall the past year versus the past week. *American Journal of Preventive Medicine* (submitted 12/22).

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Xu, Y., Chavez, T., Johnson, M., Bastain, T., Breton, C., **Wilson, J.P.**, Habre, R., Modeling human inhalation exposures within multiple microenvironments (in preparation).

Xu, Y., Chavez, T., Johnson, M., Bastain, T., Breton, C., **Wilson, J.P.**, Habre, R., Sources of personal PM2.5 exposure in the MADRES pregnancy cohort in Los Angeles, California (in preparation).

Yi, L., Xu, Y., Eckel, S.P., Mason, T.B., O'Connor, S., Eckel, S.P., Cabison, J., Rosales, M., Chu, D., Chavez, T.A., Johnson, M., Bastain, T.M., Breton, C.V., Dunton, G.F., **Wilson, J.P.**, Habre, R. Dynamic exposure to built environment characteristics during pregnancy and early postpartum using smartphone location data. *Health & Place* (submitted 4/22).

Yue, B. Chen, X., Li, S.-B., Du, Z.-P., **Wilson, J.P.**, Zhou, C.-H. Surface water dynamics in the Aral Sea Basin from 2001 to 2021. *Remote Sensing of Environment* (submitted 1/23).

PRESENTATIONS

Conferences and Workshops

- 2022 Xu, Y., Cabison, J., Rosales, M., Chavez, T., Johnson, M., Yang, T., Farzan, S., Bastain, T., Breton, C., **Wilson, J.P.**, Habre, R. *Modeling personal PM2.5 exposures within multiple microenvironments*. Annual Meeting of the International Society of Exposure Science, Lisbon, Portugal.
- 2022 Xu, Y., O'Sharkey, K., Cabison, J., Rosales, M., Chavez, T., Johnson, M., Yang, T., Cho, S.-H., Chartier, R., Lurmann, F., Pavlovic, N., Farzan, S., Bastain, T., Breton, C., **Wilson, J.P.**, Habre, R. *Sources of personal PM2.5 exposure in the MADRES pregnancy cohort*. Annual Meeting of the International Society of Exposure Science, Lisbon, Portugal.

- 2022 Livings, M., Bruine de Bruin, W., **Wilson, J.P.**, Lee, B.Y., Horn, A., Xu, M., Li, K., Weber, K., Babboni, M., de la Haye, K. *A comparison of past-week and past-year measures of food insecurity*. Annual Meeting of the American Public Health Association, Boston, Massachusetts.
- 2022 de la Haye, K., **Wilson, J.P.**, Bruine de Bruin, W., Lee, B.Y. *Smart and connected community food systems*. National Science Foundation Smart and Connected Communities Principal Investigators' Meeting, Washington, D.C.
- 2022 Yi, L., Xu, Y., Mason, T.B., O'Connor, S., Cabison, J., Rosales, M., Chu, D., Chavez, T., Johnson, Eckel, S.P., M., Bastain, T., Breton, C., **Wilson, J.P.**, Habre, R. and Dunton, G.F. *The association between activity space built-environment characteristics and physical activity during pregnancy and early postpartum: Evidence from MADRES cohort*. Annual Meeting of the International Society of Behavioral Nutrition and Physical Activity, Phoenix, Arizona.
- 2022 Yi, L., Yan, X., Eckel, S.P., O'Connor, S., Cabison, J., Rosales, M., Chu, D., Chavez, T., Johnson, M., Mason, T.B., Bastain, T., Breton, C., Dunton, G.F., **Wilson, J.P.**, Habre, R. *Assessing daily dynamic exposures to built environmental characteristics during pregnancy and early postpartum using smartphone location data*. Annual Meeting of the American Association of Geographers, New York, New York.
- 2021 Livings, M.S., Miller, S., Bruine de Bruin, W., **Wilson, J.P.**, Weber, Frazzini, A., Xu, M., Li, K., K., Babboni, M., de al Haye, K. *Spatial characteristics of food insecurity in Los Angeles County during COVID-19 (Poster)*. National Heart, Lung, and Blood Institute Food Insecurity, Neighborhood Food Environment, and Nutrition Health Disparities: State of the Science Workshop (virtual).
- 2021 de al Haye, K., Miller, S., Livings, M.S., Bruine de Bruin, W., **Wilson, J.P.**, Frazzini, A., Livings, M.S., Babboni, M., Kapteyn, A. *Risk and protective factors for food insecurity during the COVID-19 pandemic (Poster)*. National Heart, Lung, and Blood Institute Food Insecurity, Neighborhood Food Environment, and Nutrition Health Disparities: State of the Science Workshop (virtual).
- 2021 Weber, K., **Wilson, J.P.**, Magulies, E. *A scientific plan for a healthier, more resilient Eastside Los Angeles*. Tree Summit LA 2021 (virtual).
- 2021 Yi, L., Habre, R., Xu, Y., Mason, T.B., Naya, C.H., Chu, D., Chavez, T.A., **Wilson, J.P.**, Bastain, T.M., Breton, C.V., Dunton, G.F. *A study of context-specific physical activity patterns of low-income Hispanic women during pregnancy using GPS and accelerometer data*. Active Living Conference (virtual).
- 2021 Li, K., **Wilson, J.P.** *Modeling the health benefits of traffic related air pollution abatement across the City of Los Angeles*. Annual Meeting of the American Association of Geographers (virtual).
- 2021 **Wilson, J.P.** *The spatial sciences: Today and tomorrow*. Big Sky GeoCon Conference (virtual).
- 2021 Xu, Y., Yi, L., Cabison, J., O'Sharkey, K., Chavez, T., Lurmann, F., Bastain, T., Breton, C., **Wilson, J.P.**, Habre, R. *The impact of GPS-derived time-activity patterns on personal PM2.5 exposure in the MADRES cohort*. Annual Meeting of the American Association of Geographers (virtual).
- 2021 Yi, L., Xu, Y., O'Connor, S., Cabison, J., Chu, D., Chavez, T., Mason, T., Bastain, T., Breton, C., Dunton, G., **Wilson, J.P.**, Habre, R. *Integrating mobility and time-activity patterns in assessing environmental exposures during pregnancy and early postpartum*. Annual Meeting of the American Association of Geographers (virtual).

- 2020 **Wilson, J.P.** *Distance versus residential education online: What difference does it make?* 8th Digital Earth Summit (virtual).
- 2020 de la Haye, K., Miller, S., Livings, M., Bruine de Bruin, W., **Wilson, J.P.**, Weber, K., Frazzini, A. *The impact of COVID-19 on food insecurity in Los Angeles County.* DataCon LA Conference (virtual).
- 2020 **Wilson, J.P.** *Improving livability with superblocks: A geodesign solution.* URISA GIS-Pro 2020 Conference (virtual).
- 2020 **Wilson, J.P.** *Renaissance education shaped by disruption (Panel discussion).* Second Annual U.S. Geospatial Intelligence Foundation GeoIntegration Summit (virtual).
- 2020 **Wilson, J.P.** *Plenary roundtable on sustainable research practices (Panel discussion).* The Green Conference: Interdisciplinary Perspectives on the History of Sustainability and Environmentalism, Los Angeles, California.
- 2020 Wolfswinkel, E.M., Howell, A.C., MacDonald, B., **Wilson, J.P.**, Magee, W., Howell, L.K. *American Indian and Alaskan Native (AIAN) access to appropriate cleft lip and palate treatment using Geographic Information Systems (GIS).* 77th Meeting of the American Cleft Palate-Craniofacial Association, Portland, Oregon.
- 2019 **Wilson, J.P.** *The changing world of GeoINT (Panel discussion).* 1st Annual GeoIntegration Summit, Herndon, Virginia.
- 2019 **Wilson, J.P.** *Role of theory and geocomputation in describing and simulating landscape performance.* 15th International Geocomputation Conference, Queenstown, New Zealand.
- 2019 Zhao, M., Yang, J., Xiao, X.-M., Liu, L., Du, L., Zhao, N., **Wilson, J.P.**, Yue, T.-X. *Forest biomass carbon distribution in China over the past four decades: Coupling long-term inventory and remote sensing data.* Fall Meeting of the American Geophysical Union, San Francisco, California.
- 2019 Carrera Ruedas, E., Nie, L., Whipple, C., MacDonald, B., **Wilson, J.P.** *Superblocks for Los Angeles: Sustainable urban alternatives evaluated with geodesign (Map presentation).* Esri User Conference, San Diego, California.
- 2019 Chow, A., Lee, Z., MacDonald, B., **Wilson, J.P.** *The macro of micro: A geospatial exploration of economic development's effects on small business vitality in Los Angeles (Map presentation).* Esri User Conference, San Diego, California.
- 2019 **Wilson, J.P.** *What are the key things the GSI should do?* 3rd Geospatial Software Institute Workshop, Annapolis, Maryland.
- 2019 de Figueiredo, M.F.P., Klerman, D., **Wilson, J.P.**, Hall, M.B., MacDonald, B. *Legal origin from outer space.* National Bureau of Economic Research Law and Economics Summer Institute, Cambridge, Massachusetts.
- 2019 **Wilson, J.P.** *Education, training, and the geospatial domain: GIST BoK update (Panel discussion).* Annual Symposium of the University Consortium for Geographic Information Science, Washington, D.C.
- 2019 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.
- 2019 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.

- 2019 **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.
- 2019 **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.
- 2019 **Wilson, J.P.** *Does cartography need a BoK? (Panel discussion)*. Annual Meeting of the American Association of Geographers, Washington, D.C.
- 2019 **Wilson, J.P.** *Uncertainty and bias in geospatial data science*. Annual Meeting of the American Association of Geographers, Washington, D.C.
- 2019 de Figueiredo, M.F.P., Klerman, D., **Wilson, J.P.**, Hall, M.B., MacDonald, B. *Legal origin from outer space*. University of Arizona QuantLaw Conference, Tucson, Arizona.
- 2019 Wolfswinkel, E.M., Howell, A.C., MacDonald, B., **Wilson, J.P.**, Magee, W., Howell, L.K. *American Indian Alaskan Native access to appropriate cleft lip and palate treatment using geographic information systems (Poster)*. 8th International Meeting on Indigenous Child Health, Calgary, Alberta, Canada.
- 2019 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.
- 2019 **Wilson, J.P.** *Places, social determinants of health, and electronic health records*. Annual Symposium of Children's Hospital Los Angeles and Saban Research Institute, Los Angeles, California.
- 2019 **Wilson, J.P.** *Digital terrain modeling*. Replicability and Reproducibility in Geospatial Research Workshop, Spatial Analysis Research Center, Arizona State University, Phoenix, Arizona.
- 2019 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.
- 2018 **Wilson, J.P.** *Geomorphometry: Today and tomorrow*. 6th International Geomorphometry Symposium, Denver, Colorado.
- 2018 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.
- 2018 **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.
- 2018 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.

- 2018 **Wilson, J.P.** *Geospatial intelligence: Challenges and opportunities (Panel discussion)*. Annual Meeting of the American Association of Geographers, New Orleans, Louisiana.
- 2018 **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.
- 2018 **Wilson, J.P.** *CyberGIS and Spatial Data Science (Panel discussion)*. Annual Meeting of the American Association of Geographers, New Orleans, Louisiana.
- 2018 **Wilson, J.P.** Friedman, B., Herron, J., *Real-world solutions with geodesign*. 9th Annual Geodesign Summit, Redlands, California.
- 2017 **Wilson, J.P.** *Making collaboration work (Panel discussion)*. GEO: Design and BIM Conference, Amsterdam, the Netherlands.
- 2017 **Wilson, J.P.** *The practice of geospatial leadership*. Annual Meeting of the Urban and Regional Information Systems Association, Jacksonville, Florida.
- 2017 **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.
- 2017 **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*. 7th Annual Los Angeles Geospatial Summit, Los Angeles, California.
- 2016 **Wilson, J.P.** *Geodesign as a multiscale global enterprise*. Geodesign Europe Summit, Delft, the Netherlands.
- 2016 **Wilson, J.P.** *Connecting population, health and place (with geospatial tools and data)*. Geospatial Approaches to Cancer Control and Population Sciences Conference, Bethesda, Maryland.
- 2016 **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 User Conference, San Diego, California.
- 2016 Escobedo, L.A., Cockburn, M.G., **Wilson, J.P.** *Spatial disparities in adherences to colorectal cancer screening among the elderly*. 4th Epidemiology Conference of the Americas, Miami, Florida.
- 2016 **Wilson, J.P.** *Community health mapping in a world awash with geographic data and tools*. Community Health Mapping Workshop, Bethesda, Maryland.
- 2016 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.
- 2016 **Wilson, J.P.** *The challenges and opportunities accompanying geospatial big data*. International Workshop on Big Data: Challenges and Opportunities for Disaster Recovery, Shonan, Japan.
- 2016 **Wilson, J.P.** *Establishing a B.S. in Geodesign to foster interdisciplinary collaboration*. 7th Annual Geodesign Summit, Redlands, California.
- 2015 **Wilson, J.P.** *GIS&T BoK project update*. University Consortium for Geographic Information Science, Washington, DC.

- 2015 **Wilson, J.P.** *UCGIS 20th anniversary retrospective (Panel discussion)*. University Consortium for Geographic Information Science Symposium, Washington, DC.
- 2015 **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.
- 2014 **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.
- 2014 Zhao, M.W., Yue, T.X., Zhao, N., Chen, C.F., Du, Z.P., Dong, D.J., **Wilson, J.P.** *A review of HASM*. International Conference on Geo-Process Modeling in VGE: Managing and Sharing Geographic Knowledge, Hong Kong.
- 2014 **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.
- 2014 **Wilson, J.P.** *Building a vibrant and enduring spatial science*. 9th International Workshop on Geographical Information Science, Beijing, China.
- 2014 **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.
- 2014 **Wilson, J.P.** *The case for an enduring spatial science*. Seventeenth AGILE Conference on Geographic Information Science, Castellón, Spain.
- 2014 Ghosh, R., Lurmann, F., Perez, L., Penfold, B., Brandt, S., **Wilson, J.P.**, Millet, M. *Burden of coronary heart disease from near roadway air pollution and potential impact of greenhouse gas reduction in southern California*. Annual Meeting of the International Society for Environmental Epidemiology, Seattle, Washington.
- 2014 **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.
- 2014 **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.
- 2014 **Wilson, J.P.** *Geospatial education online (Panel discussion)*. Annual Center for Geographic Analysis Conference, Harvard University, Cambridge, Massachusetts.
- 2014 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.
- 2014 **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.
- 2014 **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.
- 2013 **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.

- 2013 **Wilson, J.P.** *The geography-environment nexus: Spatially-explicit environmental analysis and modeling.* International Conference on Geography and Environment, Mexico City, Mexico.
- 2013 **Wilson, J.P.** *Towards geodesign: Building new education programs and audiences.* Geodesign Europe Summit, Leerdam, the Netherlands.
- 2013 **Wilson, J.P.** *Here, there and 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 Education User Conference, San Diego, California.
- 2013 **Wilson, J.P.** *Cultivating spatial intelligence in bite-sized chunks.* Annual Meeting of the Association of American Geographers, Los Angeles, California.
- 2013 **Wilson, J.P.** *Scholastic pioneers: Emerging best practices in geodesign education (Panel discussion).* 4th Annual Geodesign Summit, Redlands, California.
- 2012 **Wilson, J.P.** *Cultivating spatial intelligence.* Spatial Thinking across the College Curriculum Specialist Meeting, Center for Spatial Studies, University of California, Santa Barbara, California.
- 2012 **Wilson, J.P.** *Measuring people in place: Synthesis of Day 1 (Panel discussion).* Measuring People in Place Workshop, Boulder, Colorado.
- 2012 **Wilson, J.P.**, Goodchild, M.F. *How should GIS education be reshaped to serve future needs?* 6th Annual GI Forum, Salzburg, Austria
- 2012 **Wilson, J.P.** *Rethinking and repositioning geographic information science.* Annual Meeting of the University Consortium of Geographic Information Science, Washington, D.C.
- 2012 **Wilson, J.P.** *Professional online GIS degree programs: A panel discussion.* Annual Meeting of the American Society of Photogrammetry and Remote Sensing, Sacramento, California.
- 2012 **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.
- 2012 **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.
- 2012 **Wilson, J.P.**, Murphy, A., Sloane, D. *Creating a B.S. in geodesign at the University of Southern California.* 3rd Annual Geodesign Summit, Redlands, California.
- 2012 **Wilson, J.P.** *Geodesign education: Where are we and where are we going? (Panel discussion).* 3rd Annual Geodesign Summit, Redlands, California.
- 2011 Lee, S.J., Longcore, T.R., **Wilson, J.P.** *Monitoring urban land cover change using GIS and remote sensing: A Los Angeles County case study.* 31st 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.
- 2010 **Wilson, J.P.** *Modeling surface runoff and contaminants in large metropolitan regions.* Southern California Bight Climate Change Workshop, Los Angeles, California.
- 2010 **Wilson, J.P.** *Geography and our digital futures (Panel discussion).* Joint Meeting and Biennial Conference of the New Zealand Geographical Society and Australian Institute of Geographers, Christchurch, New Zealand.

- 2010 **Wilson, J.P.** *Geography and GIS as middleware*. Joint Meeting and Biennial Conference of the New Zealand Geographical Society and Australian Institute of Geographers, Christchurch, New Zealand.
- 2010 **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.
- 2010 **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.
- 2010 **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.
- 2009 **Wilson, J.P.** *GIS master's programs: A panel discussion*. Annual Meeting of the Association of Pacific Coast Geographers, San Diego, California.
- 2009 **Wilson, J.P.** *Role of geocomputation in the hydrological sciences*. 1st International Symposium on Geo-Computation and Analysis, Wuhan, China.
- 2009 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.
- 2009 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.
- 2008 **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.
- 2008 **Wilson, J.P.** *GIScience journal editors: A panel discussion*. 5th International Conference on Geographic Information Science, Park City, Utah.
- 2008 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.
- 2008 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
- 2008 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.

- 2008 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.
- 2008 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.
- 2007 **Wilson, J.P.** *GIScience and disaster management: Research prospects and challenges*. Annual Meeting of the Association of American Geographers, San Francisco, California.
- 2007 **Wilson, J.P.** *Distance learning and GIScience*. Annual Meeting of the Association of American Geographers, San Francisco, California.
- 2007 **Wilson, J.P.** *Using GIS and environmental modeling to build sustainable communities*. International Association of Science and Technology for Development Conference on Environmental Modeling and Simulation, Honolulu, Hawaii.
- 2006 **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 and Digital Terrain Modelling, Nanjing, China.
- 2006 **Wilson, J.P.** *Geospatial preparedness from the non-governmental organization perspective*. Joint Meeting of the U.S. Geological Survey and U.S. Department of Homeland Security on Geospatial Preparedness for Natural Disasters, Reston, Virginia.
- 2006 **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 Investigators' Meeting, Washington, D.C.
- 2006 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.
- 2006 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.
- 2006 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.
- 2006 Sayre, J., Sheng, J., **Wilson, J.P.**, Deviny, J. *Prospects for stream and watershed restoration in rapidly urbanizing landscapes*. Annual Meeting of the Association of American Geographers, Chicago, Illinois.
- 2006 Sheng, J., Chen, N., Sayre, J., **Wilson, J.P.**, Deviny, 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.
- 2006 **Wilson, J.P.** *The Green Visions Plan for 21st century southern California*. Annual Meeting of the Association of American Geographers, Chicago, Illinois.
- 2006 **Wilson, J.P.** *Geospatial information science and technology: An integrating force in disaster preparedness, Mitigation and Recovery*. Winter Meeting of the University Consortium for Geographic Information Science, Washington, D.C.

- 2005 **Wilson, J.P.** *Role of interpolation in GIS-based climate impact studies.* National Center for Atmospheric Research GIS in Weather, Climate and Impacts Workshop, Boulder, Colorado.
- 2005 **Wilson, J.P.** *GIS in the city: A GISer's guide to advancing policy and practice.* Summer Assembly of the University Consortium for Geographic Information Science, 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.* 2nd Annual Electronic Cultural Atlas Initiative Congress, Shanghai, China.
- 2005 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.
- 2005 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.
- 2005 Sister, C.E., **Wilson, J.P.** *Impacts of land use on reef health.* Annual Meeting of the Association of American Geographers, Denver, Colorado.
- 2005 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.
- 2004 **Wilson, J.P.**, Knoblock, C.A., Shahabi, C. *Rapid data integration in response to unexpected events.* Winter Meeting of the University Consortium for Geographic Information Science, Washington, D.C.
- 2004 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.
- 2004 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.
- 2004 Sister, C.E., **Wilson, J.P.** *Predicting coral reef health: Does distance matter?* Annual Meeting of the Association of American Geographers, Philadelphia, Pennsylvania.
- 2003 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.
- 2003 **Wilson, J.P.** *Delineating landscapes using terrain analysis and fuzzy classification methods.* Ian Moore Terrain Analysis Symposium, Australian National University, Canberra, Australia.

- 2003 **Wilson, J.P.** *Faculty incentive and institutional support leading to curricula transformation.* 6th Annual Conference on Teaching, Learning, and 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.
- 2002 **Wilson, J.P.** *Terrain analysis tools for routing flow and calculating upslope catchment areas.* Symposium on Terrain Analysis for Water Resource Applications, Austin, Texas.
- 2002 **Wilson, J.P.** *The growth visioning exercise results.* Annual Urban Land Institute-Los Angeles and University of Southern California Lusk Center for Real Estate Summit, Los Angeles, California.
- 2002 **Wilson, J.P.** *Where can the growth go?* Annual Urban Land Institute-Los Angeles and 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.* 22nd Esri User Conference, San Diego, California.
- 2002 **Wilson, J.P.** *Terrain-based descriptions of earth surface and atmospheric processes.* Intergraph Geospatial World User Community Conference, Atlanta, Georgia.
- 2002 **Wilson, J.P.** *GIS capabilities and epidemiological applications.* GIS and 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.
- 2002 **Wilson, J.P.** *Digital terrain modeling: Future research issues.* Ordnance Survey Height Workshop, Loughborough, United Kingdom.
- 2000 **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.* Summer Assembly of the University Consortium for Geographic Information Science, Minneapolis-St. Paul, Minnesota.
- 1998 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 and 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 and performance.* 2nd 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, and 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 and scope of the National Spatial Data Infrastructure: The local government perspective.* 9th Annual Montana GIS Conference, Missoula, Montana.
- 1996 **Wilson, J.P.,** Petch, J. *UNIGIS distance learning diploma, Technology and user needs.* 2nd 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.* 3rd 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?* 3rd International Conference Integrating GIS and 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.* 9th Annual Montana GIS Conference, Missoula, Montana.
- 1995 **Wilson, J.P.** *The role of GIS software and personnel in automating local government operations.* United Nations and Organization of Islamic Capital Cities Conference on GIS, Sustainability, and the Environment, Cairo, Egypt.
- 1995 **Wilson, J.P.,** Gallant, J.C. *Terrain-based approaches to environmental resource evaluation.* Annual Meeting of the British Geomorphology Research Group, Cambridge, United Kingdom.
- 1995 **Wilson, J.P.** *Terrain-based methods for predicting climatic, hydrologic and biological indices.* Consortium for Study of North Temperate Montane Ecosystems Workshop on Biodiversity in Montane Ecosystems: Identifying Sources and 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 and Spatial Modeling: New Potential for New Models, Stockholm, Sweden.
- 1995 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.
- 1995 **Wilson, J.P.,** Inskeep, W.P., Wraith, J., Snyder, R.D. *GIS-based solute transport modeling applications: Scale effects and estimation methods.* ASA-CSSA-SSSA Bouyoucos Conference, Riverside, California.
- 1995 Stillman, S.T., **Wilson, J.P.** *Comparison of ANUSPLIN precipitation surfaces and hand-contoured maps in southwestern Montana and Wyoming.* 8th Annual Montana GIS Conference, Helena, Montana.
- 1995 Wheatley, J.M., **Wilson, J.P.,** Nielsen, G.A. *Using terrain attributes to improve the accuracy of Landsat remote sensing vegetation maps.* 8th Annual Montana GIS Conference, Helena, Montana.

- 1995 Magnant, J., Beland, D., **Wilson, J.P.** *Use of GIS for critical lands strategic planning in Bozeman*. 8th Annual Montana GIS Conference, Helena, Montana.
- 1995 **Wilson, J.P.** *GIS-based solute transport modeling applications: Scale effects and estimation methods*. 8th Annual Montana GIS Conference, Helena, Montana.
- 1995 Repetto, P.L., **Wilson, J.P.** *Sensitivity of RUSLE outputs to GIS methods used to calculate topographic inputs*. 8th 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*. 8th 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.
- 1994 **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.
- 1994 **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 and plains of Montana*. Annual Meeting of the Montana Division, American Water Resources Association, Missoula, Montana.
- 1994 **Wilson, J.P.** *New spatial interpolation methods*. 6th Annual Montana GIS Conference, Kalispell, Montana.
- 1994 **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.
- 1994 **Wilson, J.P.**, Spangrud, D.J., Jacobsen, J.S., Nielsen, G.A., Tyler, D. *Sensitivity of computed terrain attributes to the number and pattern of GPS-derived elevation data*. 2nd 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 and soils in Yellowstone National Park*. 13th Esri User Conference, Palm Springs, California.

- 1993 **Wilson, J.P.**, Forer, P. *Taking Instruction beyond the GIS Laboratory*. 13th 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.
- 1992 **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.
- 1992 Moore, I.D., Clesiolka, C.A., **Wilson, J.P.** *Soil erosion prediction and GIS: Linking theory and practice*. International Conference on Application of Geographic Information Systems to Soil Erosion Management, Taiyuan, China.
- 1992 **Wilson, J.P.**, Inskeep, W.P., Rubright, P., Jacobsen, J.S., Snyder, R.D., Cooksey, D. *Coupling geographic information systems and models for county-scale ground water pollution assessments*. Annual Meeting of the Association of American Geographers, San Diego, California.
- 1992 **Wilson, J.P.**, Snyder, R.D., Ryan, C.M., Inskeep, W.P., Jacobsen, J.S., Rubright, P. *Coupling geographic information systems and models for county-scale ground water pollution assessments*. 12th International Esri User Conference, Palm Springs, California.
- 1992 **Wilson, J.P.** *GIS education and training opportunities at Montana State University*. 12th International Esri User Conference, Palm Springs, California.
- 1992 **Wilson, J.P.** *Terrain-based models for the distributed hydrological and erosional modeling of landscapes*. Montana Interagency Soil Survey Conference, Bozeman, Montana.
- 1992 **Wilson, J.P.**, Inskeep, W.P., Rubright, P., Cooksey, D., Jacobsen, J.S., Snyder, R.D. *Coupling geographic information systems and 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?* 4th 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.
- 1991 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.
- 1991 Moore, I.D., Turner, K., **Wilson, J.P.**, Jenson, S., Band, L.E. *GIS and land surface-subsurface process modeling*. International Conference/Workshop on Integrating Geographic Information Systems and Environmental Modeling, Boulder, Colorado.

- 1991 **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 and crop productivity models*. Montana Interagency Soil Survey Conference, Bozeman, Montana.
- 1990 **Wilson, J.P.** *GIS education opportunities at Montana State University*. 3rd Annual Montana GIS Conference, Missoula, Montana.
- 1990 **Wilson, J.P.** *GIS research projects at Montana State University*. 3rd 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, and motorcycles on mountain trails*. Annual Meeting of the Association of American Geographers, Toronto, Ontario.
- 1990 Moore, I.D., Grayson, R.D., **Wilson, J.P.** *Runoff modeling in complex three-dimensional terrain*. International Conference on Water Resources in Mountainous Regions and 32nd Congress of International Association of Hydrogeologists, Lausanne, Switzerland.
- 1990 Ladson, A.R., Moore, I.D., **Wilson, J.P.** *Contour- and 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, Canada.
- 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.
- 1988 **Wilson, J.P.**, Nielsen, G.A. *Quantifying the effects of erosion on soil productivity in Montana*. 26th 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*. 1st Annual Montana GIS Annual Conference, Helena, Montana.
- 1987 Gerhart, K.E.S., **Wilson, J.P.** *Using the Productivity Index (PI) model to generate county 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.
- 1987 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.
- 1986 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, Canada.

Podcasts, Videos, and Webinars

- 2022 Wilson, J.P., Qi, Y. *The M.S. in Spatial Data Science at the University of Southern California* (Webinar). International Academy, University of Southern California.
- 2022 **Wilson, J.P.** *The M.S. in Spatial Data Science at the University of Southern California* (Webinar). Beijing University of Technology.

- 2021 **Wilson, J.P.** *Why spatial data science? A pathway to a meaningful and successful career* (Webinar). International Academy, University of Southern California.
- 2021 **Wilson, J.P.**, Knapp, H. *Spatial data science* (Webinar). International Academy, University of Southern California.
- 2021 Habre, R., **Wilson, J.P.** *The compelling combination of population, health and place* (Webinar). International Academy, University of Southern California.
- 2021 Duan, L., **Wilson, J.P.** *Using the spatial sciences to reimagine the future: Creating a healthier, livable and sustainable world* (Webinar). International Academy, University of Southern California.
- 2021 Marx, A., **Wilson, J.P.** *Careers in spatial computing* (Webinar). International Academy, University of Southern California.
- 2021 **Wilson, J.P.** *Leading spatial sciences at USC and beyond* (Podcast). Geoinspirations Podcast Series with Joseph Kerski, Directions Magazine.
- 2020 Wu, A.-M., **Wilson, J.P.** *Careers in spatial economics* (Webinar). International Academy, University of Southern California.
- 2020 Aydin, O., **Wilson, J.P.** *Careers in spatial data science* (Webinar). International Academy, University of Southern California.
- 2020 **Wilson, J.P.** *Spatial sciences careers* (Webinar). International Academy, University of Southern California.
- 2020 **Wilson, J.P.** *Location, location, location: Using the spatial sciences to connect health and place over the live course* (Webinar). MESH (Medicine, Engineering, Science, and Humanities Academy), University of Southern California.
- 2018 **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.
- 2016 **Wilson, J.P.**, Ahlqvist, O. *All you need to know about UCGIS's new GIS&T Body of Knowledge* (Webinar). Directions Magazine.
- 2016 **Wilson, J.P.**, Summers, R., Hitt, A.L. *Developing geospatial leaders* (Webinar). Geographic Information Science and Technology Programs, University of Southern California.
- 2016 **Wilson, J.P.** *Ask the Director: USC GIST student webinar*. Geographic Information Science and technology Programs, University of Southern California.
- 2015 **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.
- 2014 **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.
- 2014 **Wilson, J.P.** *An introduction to the new graduate certificate programs* (Webinar). Geographic Information Science and Technology Graduate Programs, University of Southern California.
- 2013 **Wilson, J.P.** *Spatial sciences* (Video). Dana and David Dornsife College of Letters, Arts and Sciences, University of Southern California.
- 2013 **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.

- 2013 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.
- 2013 **Wilson, J.P.** *Introducing the Spatial Sciences Institute* (Webinar). Geographic Information Science and Technology Graduate Programs, University of Southern California.
- 2012 **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.
- 2011 **Wilson, J.P.** *General information session: GIST programs* (Webinar). Geographic Information Science and Technology Graduate Programs, University of Southern California.
- 2010 **Wilson, J.P.** *General information session: GIST programs* (Webinar). Geographic Information Science and Technology Graduate Programs, University of Southern California.
- 2010 **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

- 2022 **Wilson, J.P.**, Li, K. *Los Angeles superblocs project*. External Advisory Committee Meeting, Southern California Environmental Health Sciences Center, Los Angeles, California.
- 2022 Habre, R., **Wilson, J.P.** *Exposure Factors Core*. External Advisory Committee Meeting, Southern California Environmental Health Sciences Center, Los Angeles, California.
- 2022 **Wilson, J.P.** *Wilson Map Lab*. Executive Committee Meeting, Southern California Center for Latino Health, Children's Hospital Los Angeles, Los Angeles, California.
- 2022 **Wilson, J.P.** *USC Geohealth Hub*. Community Scholars Collaborative on Health Equity Solutions, University of Southern California, Los Angeles, California.
- 2022 **Wilson, J.P.** *Spatial research focused on agile and resilient systems, human well-being, social justice, and sustainability*. President's Working Group on Sustainability Research Committee, University of Southern California, Los Angeles, California.
- 2022 Avol, E., **Wilson, J.P.** *Exposure Factors Facility Core*. Faculty Core Seminar Series, Southern California Environmental Health Sciences Center, Los Angeles, Southern California.
- 2022 **Wilson, J.P.** *USC Urban Trees Initiative*. Climate and Health Working Group, Southern California Environmental Health Sciences Center, University of Southern California, Los Angeles, California.
- 2022 **Wilson, J.P.** *Ethics of community-engaged research: Five case studies*. Center for Excellence in Research, University of Southern California.
- 2021 **Wilson, J.P.** *Place, space, and time*. Mapping Mobilities Workshop Series, University of Southern California, Los Angeles, California.
- 2020 **Wilson, J.P.** *Location, location, location: Using the spatial sciences to create a better world*. Iovine and Young Academy, University of Southern California, Los Angeles, California.
- 2020 **Wilson, J.P.** *Changing urban design to improve human health using the superblock model*. Climate and Health Working Group, Southern California Environmental Health Sciences Center, Los Angeles, California.
- 2020 Avol, E., Conti, D., Franklin, M., Gauderman, W., Johnston, J., **Wilson, J.P.** *Southern California Environmental Health Sciences Center: Meet the core directors*. Department of Preventive Medicine, Keck School of Medicine of USC, Los Angeles, California.
- 2019 **Wilson, J.P.** *The role of theory and geocomputation in geomorphometry*. Department of Physical Geography and Ecosystem Science, Lund University, Lund, Sweden.

- 2019 **Wilson, J.P.** *The educational and research activities associated with the USC Spatial Sciences Institute.* Biostatistics Summer Institute for Undergraduates, Department of Preventive Medicine, University of Southern California, Los Angeles, California.
- 2019 Klerman, D., de Figueiredo, M.F.P., **Wilson, J.P.**, Hall, M.B., MacDonald, B. *Legal origin from outer space.* Sichuan University Law School, Chengdu, China.
- 2019 Klerman, D., de Figueiredo, M.F.P., **Wilson, J.P.**, Hall, M.B., MacDonald, B. *Legal origin from outer space.* Peking University Law School, Beijing, China.
- 2019 Klerman, D., de Figueiredo, M.F.P., **Wilson, J.P.**, Hall, M.B., MacDonald, B. *Legal origin from outer space.* China University of Political Science and Law, Beijing, China.
- 2019 **Wilson, J.P.** *Sustainability and equity* (Panel discussion). USC Environmental Student Assembly, Los Angeles, California.
- 2019 **Wilson, J.P.** *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 **Wilson, J.P.** *Geodesign as a force for good.* College of Architecture and Urban Planning, Tongji University, Shanghai, China.
- 2019 Klerman, D., de Figueiredo, M.F.P., **Wilson, J.P.**, Hall, M.B., MacDonald, B. *Legal origin from outer space.* University of Southern California Gould School of Law, Los Angeles, California.
- 2019 Zhang, L., MacDonald, B, **Wilson, J.P.** *PM2.5 dynamics in global megacities based on long-term remotely sensed observations.* Spatial Sciences Institute, University of Southern California, Los Angeles, California.
- 2018 **Wilson, J.P.** *Geoanalytics, 1988-2018-2048.* Department of Geoinformatics and Z_GIS Colloquium and Celebration, University of Salzburg, Salzburg, Austria.
- 2018 Lee, S.J., Rich, C., Longcore, T.R., **Wilson, J.P.** *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.
- 2018 Lee, S.J., Rich, C., Longcore, T.R., **Wilson, J.P.** *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.
- 2018 **Wilson, J.P.** *Replicability and reproducibility in geomorphometry.* Information Sciences Institute, University of Southern California.
- 2018 **Wilson, J.P.** *The geography of life and death.* Keck Research Council. Keck School of Medicine of USC, Los Angeles, California.
- 2017 **Wilson, J.P.** *Spatial as an enabling science.* University of Wyoming, Laramie, Wyoming.
- 2017 **Wilson, J.P.** *Gentrification, densification, and why the rent is too damn high!* Jesse M. Unruh Institute of Politics, University of Southern California.
- 2017 **Wilson, J.P.** *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 **Wilson, J.P.** *Population, health and place.* USC Alumni Association Monthly Meeting, San Francisco, California.
- 2016 **Wilson, J.P.** *Reactions to the keynote address by Jack Dangermond, President, Esri* (Panel discussion). Institute for Geographical Sciences and Natural Resources Research, Beijing, China.

- 2016 **Wilson, J.P.** *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 **Wilson, J.P.** *Dynamic modeling, geostatistics, and fuzzy classification: New sneakers for a new geography?* Department of Geography, University of Connecticut, Storrs, Connecticut.
- 2016 **Wilson, J.P.** *Geography and the spatial sciences: Deploying the spatial sciences to support geographic education and discovery.* Department of Geography, University of Miami, Miami, Florida.
- 2016 **Wilson, J.P.** *What makes spatial special?* Department of Sociology, University of Southern California.
- 2015 **Wilson, J.P.** *So you're interested in the spatial sciences?* Dana and David Dornsife College of Letters, Arts and Sciences, University of Southern California.
- 2015 **Wilson, J.P.** *The science of where: Maps, models, and storytelling in the 21st Century.* Admission Staff Training, University of Southern California.
- 2015 **Wilson, J.P.** *Geographic information processing (Panel Presentation and Discussion).* Workshop on Academic Computing, University of Southern California.
- 2015 **Wilson, J.P.** *Geospatial health research and teaching.* Southern California Environmental Health Sciences Center, University of Southern California.
- 2014 **Wilson, J.P.** *Placemaking, maps, and geodesign: Spatial @USC.* Urban Land Institute-Los Angeles Advisory Board Meeting.
- 2014 **Wilson, J.P.** *The science of where: Maps, models and storytelling.* Parkside Arts and Humanities Residential College, University of Southern California.
- 2014 **Wilson, J.P.** *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 **Wilson, J.P.** *GIS, spatial analysis and religion.* School of Religion, University of Southern California.
- 2013 **Wilson, J.P.** *Mapping and classifying biophysical landscape attributes.* Biodiversity and Environment Research Collaboration Group, University of Southern California.
- 2013 **Wilson, J.P.** *UCGIS Geographic Information Science & Technology Body of Knowledge 2.0 Project (Short Presentation, Question and Answer Session).* Esri GIS Education Community Advisory Board, Esri User Conference/Education User Conference, San Diego, California.
- 2013 **Wilson, J.P.** *Geospatial workforce development (Panel Presentation and Discussion).* Center for Business GIS and Spatial Analysis, University of Redlands.
- 2013 **Wilson, J.P.** *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 **Wilson, J.P.** *The geospatial revolution.* School of Surveying, University of Otago, New Zealand.
- 2013 **Wilson, J.P.** *GIS and spatial analysis.* Department of Geography, University of Canterbury, New Zealand.
- 2013 **Wilson, J.P.** *GIS, spatial analysis, and religion.* School of Religion, University of Southern California.

- 2012 **Wilson, J.P.** *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 **Wilson, J.P.** *GIS and location analytics*. Marshall School of Business, University of Southern California.
- 2012 **Wilson, J.P.** *Spatial 2.0: Spatial literacy, analysis, modeling, and visualization*. School of Architecture, University of Southern California.
- 2012 **Wilson, J.P.** *GIS and environmental applications*. Centre for Geoinformatics, School of Geography and Geosciences, University of St. Andrews, Scotland.
- 2012 **Wilson, J.P.** *How can we reshape GIS education to serve future needs?* Center for Spatial Studies, University of California, Santa Barbara.
- 2011 **Wilson, J.P.** *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.
- 2011 **Wilson, J.P.** *The spatial sciences: Connecting society, environment, and health*. Department of Geography, University of Wisconsin, Milwaukee.
- 2011 **Wilson, J.P.** *The spatial sciences and their role in environmental studies*. Wrigley Institute of Environmental Studies Advisory Board Meeting.
- 2011 **Wilson, J.P.** *Geodesign: Designing our future in an anthropogenic world*. Institute of Geographical Sciences and Natural Resources Research, Chinese Academy of Sciences, Beijing, China.
- 2010 **Wilson, J.P.** *The role of the spatial sciences in the modern research university*. Department of Sociology, University of Southern California.
- 2010 **Wilson, J.P.** *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 **Wilson, J.P.** *GIS, spatial analysis, and spatial thinking: Essential tools for the modern geoscientist's toolbox*. Department of Earth Sciences, University of Southern California.
- 2010 **Wilson, J.P.** *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 **Wilson, J.P.** *Spatial science@USC*. Los Angeles County eGIS Working Group, Los Angeles, California.
- 2009 **Wilson, J.P.** *Green Visions Plan watershed modeling and analysis tools*. Los Angeles District, Regional Water Quality Control Board, Los Angeles, California.
- 2009 **Wilson, J.P.** *Green Visions Plan spatial decision support tools*. Los Angeles County Department of Public Works, Los Angeles, California.
- 2008 **Wilson, J.P.** *Key Green Visions planning tools*. Greater Los Angeles County Region Integrated Regional Watershed Management Plan (IRWMP) Leadership Committee, Los Angeles, California.
- 2006 **Wilson, J.P.** *Fusing computer science and geography: Research advances and opportunities in geographic information science*. Department of Computer Science, University of Southern California.
- 2006 **Wilson, J.P.** *Using GIS, spatial analysis, and maps to improve urban places and spaces*. Institute for Quantitative Social Science, Harvard University.

- 2005 **Wilson, J.P.** *GIS, Spatial analysis, and maps: Essential tools for the modern urban scholar's toolbox.* Department of Geography, University of South Carolina.
- 2004 **Wilson, J.P.** *Green Visions Plan for 21st Century Southern California,* School of Architecture, University of Southern California
- 2004 **Wilson, J.P.** *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 **Wilson, J.P.** *Parks and park funding in Los Angeles: An equity mapping analysis.* City of Los Angeles Commission for Children, Youth, and Their Families, Los Angeles, California.
- 2001 **Wilson, J.P.** *Environmental modeling with GIS.* School of Natural Resources and Environment, University of Michigan.
- 2001 **Wilson, J.P.** *Digital terrain analysis and modeling.* School of Natural Resources and Environment, University of Michigan.
- 2000 **Wilson, J.P.** *The Integrated Digital Archive-Los Angeles project.* Department of Anthropology, University of California, Berkeley.
- 2000 **Wilson, J.P.** *Spatial extensions of environmental modeling.* Department of Geography, University of California, Los Angeles.
- 2000 **Wilson, J.P.** *From outer space to personal spaces.* Department of Biological Sciences, University of Southern California.
- 1998 **Wilson, J.P.** *Evaluating GIS-based simulations of precipitation: Methods, problems and performance.* Department of Geography, University of Auckland.
- 1998 **Wilson, J.P.** *Evaluating GIS-based simulations of precipitation: Methods, problems and performance.* Department of Geography, University of Waikato.
- 1998 **Wilson, J.P.** *Dynamic modeling, geostatistics, and fuzzy classification: New sneakers for a new geography?* Department of Geography, University of Auckland.
- 1998 **Wilson, J.P.** *Comparisons of spatially distributed precipitation models.* Department of Physical Geography, University of Utrecht.
- 1997 **Wilson, J.P.** *Simulating water quality problems with GIS-based land surface/subsurface models.* Department of Geography, University of California, Santa Barbara.
- 1996 **Wilson, J.P.** *Development and testing of terrain-based methods for environmental characterization and modeling.* Department of Geography, Michigan State University.
- 1995 **Wilson, J.P.** *Terrain-based methods for conducting environmental resource surveys.* Department of Geography, University of Southern California.
- 1995 **Wilson, J.P.** *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, Jackson Hole, Wyoming.
- 1995 **Wilson, J.P.** *ArcView GIS overview and demonstration.* Bozeman City-County Planning Board, Bozeman, Montana.
- 1995 **Wilson, J.P.** *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 8 Montana cities).
- 1994 **Wilson, J.P.** *Building a multidisciplinary GIS research center.* Department of Geography, University of Auckland.
- 1994 **Wilson, J.P.** *Geographic information technologies in the great American outback.* Department of Geography, University of Auckland.

- 1994 **Wilson, J.P.** *Natural resource management applications of GIS*. Department of Animal and Range Sciences, Montana State University.
- 1994 **Wilson, J.P.** *The expanding role of GIS in undergraduate education at Montana State University*. Department of Geography, University of Lethbridge.
- 1994 **Wilson, J.P.** *Computer simulation in the earth sciences*. Science and Technology Core Committee Computer Exposition, Montana State University.
- 1994 **Wilson, J.P.** *Development of a new Montana precipitation map using the ANUSPLIN model*. Montana Natural Resource Information System, Montana State Library, Helena, Montana.
- 1993 **Wilson, J.P.** *GIS research in support of grasshopper and locust management*. U.S. Agency for International Development Site Visit, Montana State University.
- 1992 **Wilson, J.P.** *Geography, geographic information systems, and agriculture in the great American outback*. U.S. Department of Agriculture-Agricultural Research Service Fort Keough Experiment Station, Miles City, Montana.
- 1992 **Wilson, J.P.** *Coupling geographic information systems and models for groundwater pollution assessments*, Department of Plant and Soil Science, Montana State University.
- 1991 **Wilson, J.P.** *Computerized methods of terrain analysis*, Center for High-Elevation Studies, Montana State University.
- 1990 **Wilson, J.P.** *Terrain-based models for the distributed erosional modeling of landscapes*. Department of Geography, University of Auckland.
- 1990 **Wilson, J.P.** *Terrain analysis and soil erosion model development*, Department of Earth Sciences, University of Waikato.
- 1990 **Wilson, J.P.** *Geography, geographic information systems, and agriculture in the great American outback*. Waikato Branch, New Zealand Geographical Society, Hamilton, New Zealand.
- 1989 **Wilson, J.P.** *Use of geographic information systems and models for landscape analysis*. National Science Foundation Congressional Site Visit, Montana State University.
- 1987 **Wilson, J.P.** *Soil erosion and crop productivity relationships*. Aokautere Soil Conservation Center, New Zealand Ministry of Works and Development, Palmerston North, New Zealand.
- 1987 **Wilson, J.P.** *Soil erosion and crop productivity models and their data requirements*. Soils Bureau, Division of Scientific and Industrial Research, Lower Hutt, New Zealand.
- 1987 **Wilson, J.P.** *Management of soil and water resources: Information requirements and models*. Department of Geography, University of Otago.
- 1987 **Wilson, J.P.** *Management of soil and water resources: Information requirements and models*. Department of Geography Jubilee Conference and Celebration, University of Canterbury.
- 1984 **Wilson, J.P.** *Modeling soil erosion and phosphorus loadings in the Lake Simcoe-Couchiching Basin, 1800-1981*. Department of Earth Sciences, Montana State University.

GRANTS AND CONTRACTS

- 2023-2025 *USC Urban Trees Initiative (Phase III)*
Public Exchange, Dornsife College of Letters, Arts and Sciences, University of Southern California, PI; \$2,750,000 (\$650,000; Wilson).

- 2003 *Map Story Support for Spiritual Exemplars Project*
Center for Religion and Civic Culture, Dornsife College of Letters, Arts and Sciences, University of Southern California; Co-PI with B. MacDonald, Spatial Sciences Institute, University of Southern California; \$3,000.
- 2022-2027 *Southern California Clinical and Translational Science Institute*
National Center for Advancing Translational Sciences, Co-I; T. Buchanan and M. Kipke, Keck School of Medicine of USC, PIs; \$50,000,000 (\$277,341; Wilson)
- 2022-2027 *Worldwide Mapping of Air Pollution Exposure Patterns on Aging Brain Health*
National Institute of Environmental Health Sciences; Co-I; L.E. Salminen, Department of Medicine, Keck School of Medicine of USC, PI; \$3,312,875 (\$65,657; Wilson)
- 2022 *Mapping Support for Documenting USC's Educational Partnerships*
University Relations, University of Southern California; Co-PI with B. MacDonald, Spatial Sciences Institute, University of Southern California; \$1,000.
- 2021-2026 *Southern California Center for Chronic Health Disparities in Latino Children and Families*
National Institute on Minority Health and Health Disparities; Co-I; M. Goran, Children's Hospital Los Angeles, PI; \$25,000,000 (\$746,427; Wilson).
- 2021-2026 *Southern California Environmental Health Sciences Center: Environmental Exposures, Host Factors, and Human Disease*
National Institute of Environmental Health Sciences; Co-PI; R. McConnell, Department of Population and Public Health Sciences, University of Southern California, PI; \$8,241,140 (\$212,190; Wilson).
- 2021-2025 *Mechanisms of Advanced NAFLD Disparities in Hispanics: A Multi-level Analysis*
National Institute on Minority Health and Health Disparities; Co-I; W. Setiawan, Department of Population and Public Health Sciences, and N. Terrault, Department of Medicine, Keck School of Medicine of USC, PIs; \$1,982,804 (\$5,741; Wilson)
- 2021-2024 *Using Community Partnerships, Novel Data Streams, and a Data Portal to Strengthen Food Systems, Security, and Justice*
National Science Foundation; Co-PI; K. de la Haye, Department of Population and Public Health Sciences, University of Southern California, PI; \$2,054,156 (\$654,898, Wilson).
- 2021-2025 *CHES: Community Scholars Collaborative on Healthy Equity*
University of Southern California Research Collaboration Fund; Co-PI with L. Amezcua, Department of Neurology, L. Baezconde-Garbanati, Department of Population and Public Health Sciences, I. Chi, Suzanne Dworak-Peck School of Social Work, R. Vos, Spatial Sciences Institute, University of Southern California; \$50,422.
- 2021-2023 *The Impact of Air Pollution and Neighborhood-Level Risk Factors on Pediatric Perioperative Respiratory Adverse Events*
The Anesthesia Patient Safety Foundation and the Foundation for Anesthesia Education and Research Mentored Research Training Grant; Co-PI; J. Tan, Children's Hospital Los Angeles, PI; \$300,000 (\$150,000; Wilson).
- 2021-2023 *Mapping Los Angeles landscape history: A multi-institutional collaboration*
John Randolph and Dora Haynes Foundation; Co-PI; P.J. Ethington, Department of History and Spatial Sciences Institute, University of Southern California, PI; \$270,828 (\$34,000; Wilson).
- 2021-2022 *USC Urban Trees Initiative (Phase II)*
Public Exchange, Dornsife College of Letters, Arts and Sciences, University of Southern California, PI; \$200,000 (\$107,780; Wilson).

- 2021 *Design and Launch of the USC Sustainability GIS Hub*
Office of Sustainability, University of Southern California; PI; \$9,051.
- 2021 *Modeling the Health Benefits of Traffic Related Air Pollution Abatement across the City of Los Angeles*
Southern California Environmental Health Sciences Center (Pilot Grant); Co-PI with K. Li, Spatial Sciences Institute, University of Southern California; \$30,000.
- 2020-2022 *Design and Launch of the GeoHealth Hub to Support Population, Health and Place Research*
USC Addiction Research Center, Norris Cancer Center, and the Southern California Environmental Health Sciences Center; Co-PI with B. MacDonald, Spatial Sciences Institute, University of Southern California; \$45,000.
- 2020-2021 *Towards a Gen-4 ERC on AI and Data Science for Data-Rich Water Modeling in California*
USC Center for Sustainability Solutions; Co-PI with F. de Barros, Department of Civil and Environmental Engineering, M. Moghaddam, Department of Electrical and Computer Engineering, and Y. Gil, Department of Computer Science, University of Southern California; \$50,000.
- 2020-2021 *COVID-19 Impacts on Food Access, Food Insecurity, and Informal Food Assistance in Los Angeles County*
Keck School of Medicine of USC COVID-19 Research Fund; Co-PI with L. de la Haye, Department of Preventive Medicine, W. Bruine de Bruin, Price School of Public Policy, University of Southern California; \$94,105.
- 2020-2021 *Maximizing the Benefits of Increased Urban Canopy on the Eastside of Los Angeles*
Sherman Fairchild Foundation and Public Exchange, Dornsife College of Letters, Arts and Sciences, University of Southern California; PI; \$50,000.
- 2020-2021 *Geographic Patterns of Food Insecurity during the COVID-19 Pandemic in Los Angeles County*
Public Exchange, Dornsife College of Letters, Arts and Sciences, University of Southern California; PI; \$75,000.
- 2020-2021 *Using Geospatial Analysis for the City of Los Angeles to Make Data-Driven Decisions and Advance Resilience, Sustainability, and Civic Engagement*
University of Southern California Undergraduate Research Associates Program; Co-PI with B. MacDonald, Spatial Sciences Institute, University of Southern California; \$9,700.
- 2020-2021 *Using Big Mobility Data to Map Food Environments in Los Angeles: Pilot Study*
Keck School of Medicine of USC; Co-PI; K. de la Haye, Department of Preventive Medicine, University of Southern California, PI; \$40,000.
- 2020 *Modeling the Health Impacts of Proposed Zero Emission Areas in the City of Los Angeles*
Public Exchange, Dornsife College of Letters, Arts and Sciences; PI; \$21,400.
- 2019-2023 *Contextual Effects on Cardiometabolic Health: Evidence from a Natural Experiment*
National Heart, Lung, and Blood Institute; Co-I; A. Datar, Center for Economic and Social Research, University of Southern California, PI; \$1,000,000 (\$175,200; Wilson).
- 2019-2020 *Spatial Perspectives of Provider and Patient Landscapes to Inform Current and Future Operation Smile Program Strategy.*
Operation Smile; PI; \$64,200.
- 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.
- 2017-2020 *Reconstruction of Historical Topography to Estimate Erosion and Model Historical Vegetation Distribution on San Clemente Island, California*
U.S. Army Corps of Engineers; PI; \$69,492.
- 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*
National Center for Advancing Translational Sciences; Co-I; T.A. Buchanan, Department of Medicine, University of Southern California, M.D. Kipke, Department of Pediatrics, Children's Hospital Los Angeles, J.M. Samet, Department of Preventive Medicine, University of Southern California, PIs; \$36,600,000 (\$312,640; Wilson).
- 2016-2021 *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.
- 2015-2023 *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; \$82,220.
- 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 *USC Tobacco Center for Vulnerable Populations: Project 2. Maximizing Retailers' Responsiveness to FDA)*
National Cancer Institute; Co-I; J. Samet, M. Pentz, & L. Baezconde-Garbanati, Department of Preventive Medicine, University of Southern California, PIs; \$19,999,608 (\$8,250; Wilson).
- 2013-2018 *USC Tobacco Center of Regulatory Science for Vulnerable Populations: Project 3, Adolescent Smoking: Vulnerability to Tobacco Use)*
National Cancer Institute; Co-I; J. Samet, M. Pentz, & R. McConnell, Department of Preventive Medicine, University of Southern California, PIs; \$19,999,608 (\$34,858; Wilson).

- 2013-2020 *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, 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*
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, J. Wolch, Department of Geography,
University of Southern California; \$50,000.
- 2008-2009 *Development and Testing of Geocoding Services for 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 *USC Center for Trans-disciplinary Research on Energetics and Cancer: Project 3, Influence of
Built Environments on the Development of Obesity during Childhood*
National Cancer Institute; Co-I; M. Goran, Institute for Prevention Research, Keck School of
Medicine, University of Southern California, PI; \$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.
- 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, and U.S. Army Corps of Engineers, Los
Angeles, California; 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; Wilson).
- 2004-2007 *GIS Mapping and Planning Support: Student Interns*
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.
- 2004-2005 *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 and B.O. Bauer, Department of Earth Science, University of British Columbia, Okanagan, British Columbia, Canada; \$12,000.
- 2004-2005 *Sacramento-San Joaquin Delta Studies, Field Program to Measure Levee Erosion: Project 2, GIS Boat Traffic and Levee Erosion Data Integration*
California Department of Boating and Waterways; Co-PI with B.O. Bauer, Department of Earth Science, University of British Columbia, Okanagan, British Columbia, Canada; \$375,000 (\$55,549 Wilson).
- 2004-2005 *Competing Definitions of Activity Spaces and Neighborhoods*
Children's Health Study, Keck School of Medicine of USC; 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. Devanny, Department of Civil and Environmental Engineering, University of Southern California; \$816,500.

- 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 and U.S. Army Corps of Engineers, Los Angeles, California; 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, California; 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.
- 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*
Information Services Division, University of Southern California; PI; \$77,400.
- 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.
- 1998-2001 *GIS Mapping Support: Student Interns*
Southern California Association of Governments; PI; \$124,890.

- 1998-2000 *Creative Communities and Urban Futures: Project 3, Modeling the Impact of Different Land Use Policies on Urban Expansion in Southern California, 1986-2010*
James H. Irvine Foundation; Co-I; M.J. Dear, Department of Geography, University of Southern California, PI; \$1,250,000 (\$96,083 Wilson).
- 1998-1999 *GeoWorlds: Project 4, Integrating Geographic Databases and Atmospheric Chemical Dispersion Models*
U.S. Department of Defense, Defense Advanced Research Projects Agency; R.T. Neches, Information Sciences Institute, University of Southern California, PI; \$1,250,000 (\$75,000 Wilson).
- 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, Department of Earth Sciences, 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 Integrated Digital Archive-Information System Los Angeles Project*
Information Services Division, University of Southern California; PI; \$105,000.
- 1997-1998 *Advancing Environmental GIS*
Hewlett Foundation; PI; \$5,000.
- 1997-1998 *Race-Ethnicity, and Political Fragmentation in Los Angeles County, 1940-1996: Project 2, Preparation of Historical Census and Electoral Geography Data Layers for Los Angeles County*
John Randolph and Dora Haynes Foundation; Co-I; P.J. Ethington, Department of History, University of Southern California; PI; \$240,000 (\$30,000, Wilson).
- 1997 *South Bay Economic Adjustment Plan: Project 2, Preparation of Selected Land Use and Employment Data Layers for South Bay Economic Region*
Los Angeles Community Development Commission; Co-I; D. Flaming and M. Drayse, Economic Roundtable, Los Angeles, California; \$150,000 (\$21,000, Wilson).
- 1996-1999 *Cartographic Database and Modeling Support for Southern California Atlas Project (Vol. 1-3)*
Southern California Studies Center, University of Southern California; PI; \$135,000.
- 1995-1998 *Determinants of Biodiversity, Social, and Economic Patterns in Montane Ecosystems: Project 2, Distributed Modeling and Classification of Landscapes in the Greater Yellowstone Area*
National Science Foundation EPSCoR Program; Co-I; J.D. Stanford, Yellow Bay Biological Station, University of Montana and A.D. Barnosky, Mountain Research Center, Montana State University; PIs; \$2,250,000 (\$130,000 Wilson).
- 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 *Land Use and Wildfire Effects on Landscape Patterns and Avian Diversity: A Comparison of the Greater Yellowstone Ecosystem and the Pacific Northwest: Project 1, Use of Terrain Analysis to Quantify Landscape Patterns in the Greater Yellowstone Area*
NASA EPSCoR Program; Co-I; A.J. Hansen, Department of Biology, Montana State University; PI; \$465,000 (\$35,000, Wilson).
- 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; 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 Resources Data Layers for the City of Bozeman Critical Lands Project*
City of Bozeman Planning Office; PI; \$9,995.
- 1994 *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. Inskip and 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.
- 1992-1995 *Coupling GIS, Digital Terrain Analysis, and Hydrologic Models*
Montana Agricultural Experiment Station; PI; \$7,250.
- 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; \$315,000 (\$88,500, Wilson).
- 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*
Cooperative Park Studies Unit, National Park Service, U.S. Department of Interior; Co-PI with H.W. Shovic, Yellowstone National Park, Mammoth, Wyoming; \$23,000.
- 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 and J.B. Johnson, Department of Agricultural Economics, and J.W. Bauder and 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.
- 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 and 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 and 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 and Learning Committee; PI; \$1,281.

TEACHING

Program and Curriculum Development

University of Southern California

- 2021 Launched a **M.A. in Global Security Studies**, drawing on courses and faculty from the Department of Political Science and International Relations, Shoah Foundation Institute of Visual History, Wrigley Institute for Environmental Studies, and the Spatial Sciences Institute.
- 2019 Launched a **B.S. in Human Security and Geospatial Intelligence**, based on a new capstone course and a suite of existing courses offered by the Department of Political Science, School of International Relations, Price School of Public Policy, and the Spatial Sciences Institute.
- 2019 Launched a Graduate Certificate in **Remote Sensing for Earth Observation**, drawing on a new remote sensing course and a suite of existing courses offered by the Spatial Sciences Institute.
- 2018 Launched a **B.S. in Global Geodesign**, drawing on two new hybrid seminars and a suite of existing undergraduate classes offered by the School of Architecture, the Price School of Public Policy and the Spatial Sciences Institute.
- 2018 Launched a **Minor in GIS and Sustainability Science** based on a new capstone course and a suite of existing courses offered by the Spatial Sciences Institute.
- 2018 Launched a **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 suite of existing courses offered by the Department of Economics and the Spatial Sciences Institute.
- 2018 Launched a **Geographic Information Systems specialization** in the Viterbi School of Engineering's newly established M.S. in Transportation Systems Management, drawing on a suite of existing courses offered by the Spatial Sciences Institute.
- 2017 Launched a **M.S. in Human Security and Geospatial Intelligence** based on 2 new courses and a suite of existing courses offered by the Spatial Sciences Institute.
- 2016 Launched a **Minor in Human Security and Geospatial Intelligence** based on a new capstone course and a suite of existing courses offered by the Department of Political Science and International Relations and the Spatial Sciences Institute.
- 2014 Launched a **M.S. in Spatial Data Science** with the Data Science Program in the Viterbi School of Engineering, drawing on a suite of existing courses in Data Science as well as 6 existing courses and 2 new courses offered by the Spatial Sciences Institute.
- 2014 Launched a **Graduate Certificate in Spatial Analytics**, based on four new doctoral seminars in Advanced Quantitative Methods for Population, Health and Place, Spatial Computing, Spatial Analysis, and Spatial Modeling with GIS.
- 2013 Launched a **Ph.D. in Population, Health, and Place**, drawing on 7 new seminars created specifically for this degree (seven in Spatial Sciences, two in Sociology) and a suite of existing courses offered by the Department of Population and Public Health Sciences in the Keck School of Medicine of USC.
- 2014 Launched a **GeoHealth specialization** in the Keck School of Medicine of USC's newly established Online Masters in Public Health, drawing on a suite of existing courses offered by the Spatial Sciences Institute.
- 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**.

- 2013 Launched a **Graduate Certificate in Geospatial Intelligence**, drawing on 1 new course created specifically for this certificate program and a suite of 6 existing courses offered by the Spatial Sciences Institute.
- 2013 Launched a **Graduate Certificate in Geospatial Leadership**, drawing on 1 new course created specifically for this certificate program and a suite of existing courses offered by the Spatial Sciences Institute.
- 2012 Launched a **B.S. in Geodesign**, drawing on 8 new undergraduate classes created specifically for this degree (5 in Spatial Sciences, 3 in Architecture) and a series of existing courses offered by the School of Architecture, Price School of Public Policy, and the Spatial Sciences Institute.
- 2012 Launched a **Minor in Spatial Studies**, drawing on 3 new undergraduate geographic information science classes and a suite 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 **M.S. in Geographic Information Science and Technology**.
- 2008 Launched a **M.S. in Geographic Information Science and Technology**, drawing on 5 courses specifically created for this program and 4 courses originally created as a part of the Graduate Certificate in Geographic Information Science.
- 2008 Launched a **Graduate Certificate in Geographic Information Science and Technology**, drawing on the 9 courses that are part of the M.S. in Geographic Information Science and Technology.
- 1999 Launched a **Graduate Certificate in Geographic Information Science**, drawing on 4 courses created specifically for this purpose (the courses were retained but the certificate program itself was revised and renamed in 2009).
- 1998 Launched a **Minor in Geographic Information Science** and 4 new undergraduate classes to support this new minor.

Montana State University

- 1990 Launched a **Minor in Geographic Information Science** and 3 new undergraduate classes to support this new minor.

Current Courses Taught

University of Southern California

- SSCI 265Lg: The Water Planet
- SSCI 397: Spatial Sciences Internship
- SSCI 578: The Practice of Geospatial Leadership
- GEOG 587: Spatial Data Acquisition
- SSCI 594bz: Master’s Thesis
- SSCI 596: Internship in Spatial Sciences
- SSCI 600: The Geography of Life and Death

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 681: Environmental Modeling with GIS
PLDV 526: Urban Information Systems
SSCI 499: Changing Our Global Infrastructure: An International Collaborative Geodesign Studio
SSCI 585: Geospatial Technology Project Management
SSCI 579: Geospatial Intelligence Tradecraft
SSCI 588: Remote Sensing for GIS
SSCI 601b: Population, Health and Place Research Practicum
SSCI 683: Principles of Spatial Data Analysis

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

University of the Chinese Academy of Sciences

CAS 599: Scientific Reading & Writing

University of Toronto

GGY 100: The Human Environment

University of Waikato

16.432: Human Ecology of Natural Hazards

Post-Doctoral Fellows and Visiting Scholars Directed

2019-2021 **Shanshan Liu**, School of Architecture, Tianjin Chengjian University, Tianjin, China
2018-2019 **Leilei Duan**, Spatial Sciences Institute, University of Southern California, Los Angeles, California
2018-2019 **Lili Zhang**, Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, Beijing, China
2015-2017 **Loraine A. Escobedo**, Spatial Sciences Institute, University of Southern California, Los Angeles, California

- 2015-2017 **Noli Brazil**, Spatial Sciences Institute, University of Southern California, Los Angeles, California
- 2012-2015 **KyoHyouk Kim**, Spatial Sciences Institute, University of Southern California, Los Angeles, California
- 2011-2012 **Yumin Chen**, Spatial Sciences Institute, University of Southern California, Los Angeles, California (Visiting Scholar; Center for Remote Sensing, Wuhan University, Wuhan, China)
- 2007-2008 **Jingfen Sheng**, Department of Geography, University of Southern California, Los Angeles, California
- 2006-2007 **Zaria Tatalovich**, Department of Geography, University of Southern California, Los Angeles, California
- 2004-2005 **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 **Victor Wu**, Department of Earth Sciences, Montana State University, Bozeman, Montana

Dissertations and Theses Directed

- Joy Kuter**, M.S., Geographic Information Science and Technology, University of Southern California
 Thesis title: *Testing the feasibility of using high resolution satellite imagery to classify vegetation species on Laysan Island, Hawaii.*
- Ricardo Montijo**, M.S., Geographic Information Science and Technology, University of Southern California
 Thesis title: *Electrocution risk from overhead power lines for three California bird species: The golden eagle, common raven, and turkey vulture.*
- Aviva Wolf-Jacobs**, Ph.D., Population, Health and Place, University of Southern California
 Dissertation title: *Gentrification, urban greening, and human well-being* (Co-advisor Dr. Rima Habre, Department of Population and Public Health Sciences, University of Southern California).
- Leo Lerner**, Ph.D., Population, Health and Place, University of Southern California.
 Dissertation title: *To what extent can wicked problems of health and place be addressed through clumsy solutions? Three experiments in redistributing networks of knowledge production* (Co-advisor with Dr. Lourdes Baezconde-Garbanati, Department of Population and Public Health Sciences, University of Southern California).
- Mengya Xu**, Ph.D., Population, Health and Place, University of Southern California.
 Dissertation title: *Food access in Los Angeles County: The role of the food environment, transportation modalities, activity spaces, and time* (Co-advisor with Dr. Kayla de la Haye, Department of Population and Public Health Sciences, University of Southern California).
- 2022 **Geoffrey Shreve**, M.S., Geographic Information Science and Technology, University of Southern California
 Thesis title: *Spatiotemporal hotspots of crime in Houston, Texas from 2018-2020.*
- 2022 **Laura Wellman, M.S.**, Geographic Information Science and Technology, University of Southern California
 Thesis title: *Geographic information systems and marketing: A transdisciplinary approach to curriculum development in the USC Marshall School of Business.*

- 2022 **Kurtis Eisenhuth, M.S.**, Geographic Information Science and Technology, University of Southern California
Thesis title: *Mapping punk music and its relative subgenres.*
- 2022 **Avery Rose Everhart, Ph.D.**, Population, Health and Place, University of Southern California.
Dissertation title: *Incomplete data and insufficient methods: Transgender population health research in the U.S.* (Co-advisor with Dr. Laura Ferguson, Department of Population and Public Health Sciences, University of Southern California).
- 2022 **Yan Xu, Ph.D.**, Population, Health and Place, University of Southern California
Dissertation title: *Personal PM_{2.5} exposure during pregnancy in a health disparities population* (Co-advisor with Dr. Rima Habre, Department of Population and Public Health Sciences, University of Southern California).
- 2022 **Li Yi, Ph.D.**, Population, Health and Place, University of Southern California
Dissertation title: *Investigating daily effects of activity space-based built environment exposures on physical activity behaviors in Hispanic women during pregnancy and early postpartum* (Co-advisor with Dr. Genevieve Dunton, Department of Population and Public Health Sciences, University of Southern California).
- 2021 **Cirenia Torres, M.S.**, Geographic Information Science and Technology, University of Southern California
Thesis title: *Assessing the connectivity for the jaguar (*Panthera onca*) in the United States-Mexico border ecoregions using species distribution modeling and factorial least cost path analysis*
- 2021 **Devin Thomas, M.S.**, Geographic Information Science and Technology, University of Southern California
Thesis title: *Designing a flood early warning system web mapping application for the Atlanta Metropolitan Area* (Co-advisor with Dr. Jennifer Bernstein, Spatial Sciences Institute, University of Southern California).
- 2021 **Andre McClure, M.S.**, Geographic Information Science and Technology, University of Southern California
Thesis title: *Suitable locations for affordable housing to accommodate low income residents in the Cities of Bakersfield, Los Angeles, and Palmdale, California* (Co-advisor with Dr. Jennifer Bernstein, Spatial Sciences Institute, University of Southern California).
- 2021 **John Smith, M.S.**, Geographic Information Science and Technology, University of Southern California
Thesis title: *Multi-criteria site selection for innovative wind turbine adoption in an urban environment* (Co-advisor with Dr. Jennifer Bernstein, Spatial Sciences Institute, University of Southern California).
- 2021 **Drew Vagen, M.S.**, Geographic Information Science and Technology, University of Southern California
Thesis title: *Site suitability analysis for implementing tidal technology in southern California* (Co-advisor with Dr. Jennifer Bernstein, Spatial Sciences Institute, University of Southern California).
- 2019 **Jason Martin, M.S.**, Geographic Information Science and Technology, University of Southern California
Thesis title: *Environmental niche modeling to predict the spread of Spanish broom in the Angeles National Forest.*

- 2019 **Monique 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.*
- 2018 **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.*
- 2018 **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.*
- 2018 **Christine Placencia**, M.S., Geographic Information Science and Technology, University of Southern California
Thesis title: *Spatial analysis of vision services of Kaiser Permanente members.*
- 2017 **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.*
- 2017 **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.*
- 2017 **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.*
- 2016 **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 of Maryland.*

- 2016 **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.*
- 2016 **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.*
- 2016 **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.*
- 2016 **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.*
- 2016 **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.*
- 2015 **Valerie Anderson**, M.S., Geographic Information Science and Technology, University of Southern California
Thesis title: *Historical ecology of the Split Oak forest in east central Florida.*
- 2015 **Audra Smolek**, M.S., Geographic Information Science and Technology, University of Southern California
Thesis title: *Spatial distribution of the greater sage grouse (*Centrocercus urophasianus*) in the Powder River basin, northeastern Wyoming.*
- 2015 **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.*
- 2015 **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.*

- 2015 **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.*
- 2015 **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.*
- 2015 **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.*
- 2015 **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.*
- 2014 **Evan Lue**, Ph.D., Geography, University of Southern California
Dissertation Title: *Defining the geospatial needs of an ubiquitous disaster relief organization.*
- 2014 **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.*
- 2014 **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.*
- 2014 **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.*
- 2014 **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.*

- 2014 **Elisabeth Sedano**, Ph.D., Geography, University of Southern California
Dissertation Title: *Consuming landscape, consuming machine: State, capital, & outdoor advertising in Los Angeles.*
- 2014 **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.*
- 2013 **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.*
- 2012 **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.*
- 2012 **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 site-suitability analysis.*
- 2012 **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.*
- 2012 **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.*
- 2011 **Kevin Kelly**, M.S., Geographic Information Science and Technology, University of Southern California
Thesis Title: *Different geographic representations of Middle America.*
- 2011 **Thao Nguyen**, Ph.D., Geography, University of Southern California
Dissertation Title: *Uncertainty in Geomorphometry.*
- 2010 **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.*

- 2007 **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?*
- 2006 **Zaria Tatalovich**, Ph.D., Geography, University of Southern California
Dissertation Title: *Spatio-temporal modeling of risk.*
- 2005 **Graeme Aggett**, Ph.D., Geography, University of Southern California
Dissertation Title: *Advanced geospatial technologies applied to gravel bed river mapping and modeling.*
- 2005 **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.*
- 2001 **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.*

- 1993 **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

- 2019 **Yanzi Yan**, Ph.D., Department of Physical Geography and Ecosystem Science, Lund University
Dissertation title: *The role of the hydrological cycle in forest ecosystems*.
- 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*.
- 2007 **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*.
- 2006 **John Dymond**, D.Sc., Department of Geography, University of Canterbury
Dissertation Title: *The role of remote sensing technologies & environmental monitoring in land resource management*.
- 2005 **Daryl Mummary**, 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

- 2018-2020 *GIS and Spatial Humanities*
5-day short course offered 3 times 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*
10-day short course offered as part of the Annenberg Summer Institute in Methods and Statistics, Annenberg School of Communications and Journalism, University of Southern California, Los Angeles, California

- 2006 *Modeling and Spatial Simulation: Definitions, Calibrations, Visualizations, & Applications*
5-day short course offered with M. Batty as part of 4th 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*
1-day workshop offered 4 times at Annual Esri User Conference, San Diego, California
- 2001 *Terrain Analysis: Principles and Applications*
Half-day workshop offered at Annual Esri User Conference, San Diego, California
- 1996-2003 *Introduction to ArcView GIS*
2-day workshop offered 17 times at University of Southern California, Los Angeles, California
- 1996 *Terrain Analysis Methods for Environmental Characterization and Modeling*
1-day workshop offered with J.C. Gallant at 3rd International Conference Integrating GIS and Environmental Modeling, Santa Fe, New Mexico
- 1996 *Introduction to ArcInfo*
5-day workshop offered at Montana State University, Bozeman, Montana
- 1996 *Introduction to ArcView GIS*
2-day workshop offered at Fort Lewis College, Durango, Colorado
- 1995 *Reinventing Local Government with GIS* 1-day workshop offered with J. Magnant at 7th Annual Montana GIS Conference, Helena, Montana
- 1995 *Introduction to ArcView GIS*
2-day workshop offered at Equitable Resources Inc., Billings, Montana
- 1994-1997 *Introduction to ArcView GIS*
2-day workshop offered 5 times at Montana State University, Bozeman, Montana
- 1994-1995 *Introduction to ArcCAD*
3-day workshop offered 3 times at Montana State University, Bozeman, Montana
- 1994 *Local Government GIS Applications*
1-day workshop offered with J. Magnant at 6th Annual Montana GIS Conference, Kalispell, Montana
- 1994 *Introduction to ArcCAD*
3-day workshop offered at City of Pocatello, Idaho
- 1994 *Introduction to ArcCAD*
3-day workshop offered at Power Engineers, Boise, Idaho
- 1993-1995 *Introduction to PC ArcInfo*
5-day workshop offered 4 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*
2-hour workshop offered 4 times with D. Griffith as part of Montana State University Crop and Pest Management School, Bozeman, Montana
- 1992 *Precision Farming Applications of GIS*
2-hour workshop offered with L.W. Carstensen and C.M. Ryan as part of Montana State University Crop and Pest Management School, Bozeman, Montana

- 1992 *Digital Terrain Analysis and Geographic Information Systems*
Half-day workshop offered with M. Blongewicz, J.K. Jersey, & D.L. Wittren at 5th Montana GIS Conference, Butte, Montana
- 1992 *Remote Sensing and Geographic Information Systems*
Half-day workshop offered with C. Benkelman, R. Behrendt, and J.K. Jersey at 5th Montana GIS Conference, Butte, Montana
- 1991-1995 *Introduction to PC ArcInfo*
3-day workshop offered 7 times at Montana State University, Bozeman, Montana
- 1991 *Teaching GIS*
Half-day workshop offered with K.K. Kemp, G.L. Benwell, J. Strobl, and N. Waters at GIS/LIS '91 in Atlanta, Georgia
- 1990 *Geographic Information Systems and Applications*
2-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*
1-day workshop offered at Montana State University, Bozeman, Montana in conjunction with Western Planning Association Conference

PROFESSIONAL SERVICE

International

- 2022-2023 Member, Scientific Program Committee, 15th International Conference on Advanced Geographic Information Systems, Applications, and Services, Venice Italy
- 2022-2023 Member, Scientific Program Committee, 12th International Conference on Geographic Information Science, Leeds, United Kingdom
- 2021-2022 Member, Scientific Program Committee, 15th International Conference on Advanced Geographic Information Systems, Applications, and Services, Porto, Portugal
- 2020-2021 Member, Scientific Program Committee, Geocomputation '21 Symposium, Salt Lake City, Utah
- 2020-2021 Member, Advanced Geoinformation Science Training Committee, Chinese Professionals Working on Geographic Information Systems
- 2019-2021 Member, Scientific Program Committee, 11th International Conference on Geographic Information Science (GIScience 2021), Poznań, Poland
- 2019- Member, Editorial Board, *ISPRS International Journal of Geo-Information*
- 2019-2020 Member, Scientific Program Committee, 8th Digital Earth Summit, Obninsk, Russia
- 2019 Member, Scientific Program Committee, IEEE Next Frontier of Big Data from LiDAR Workshop, Los Angeles, California
- 2019 Member, Scientific Program Committee, 5th International Conference on GIS and Remote Sensing, Rome, Italy
- 2019-2020 Member, Scientific Program Committee, 12th International Conference on Advanced Geographic Information Systems, Applications, and Services, Valencia, Spain
- 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
- 2018-2020 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, 5th International Geomorphometry Symposium, Denver, Colorado
- 2017-2018 Member, Scientific Program Committee, 4th International Conference on GIS and Remote Sensing, Berlin, Germany
- 2017-2018 Member, Scientific Program Committee, 10th International Conference on Advanced Geographic Information Systems, Applications and Services, Rome, Italy
- 2017-2018 Member, Scientific Program Committee, 10th International Conference on Geographic Information Science, Melbourne, Australia
- 2017 Member, Scientific Program Committee, 1st Geodesign and BIM Europe Conference, Amsterdam, the Netherlands
- 2017 Member, Scientific Program Committee, 2nd International Conference on GIS and Remote Sensing, Munich, Germany
- 2016-2017 Member, Scientific Program Committee, 9th International Conference on Advanced Geographic Information Systems, Applications and Services, Nice, France
- 2015-2016 Member, Scientific Program Committee, 17th International Symposium on Spatial Data Handling, Beijing, China
- 2015-2016 Member, Scientific Program Committee, 9th International Conference on Geographic Information Science, Montréal, Québec, Canada
- 2015-2016 Member, Scientific Program Committee, 8th 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, 5th 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, 13th International Conference on Geo-Computation, Dallas-Fort Worth, Texas
- 2014 Member, Scientific Program Committee, 2nd International Conference on CyberGIS and Geodesign, Redlands, California
- 2014 Member, International Program Committee, IASTED International Conference on Environmental Management and Engineering, Banff, Alberta, Canada
- 2014 Co-Chair, Scientific Steering Committee, International Conference of Geo-Process Modeling in Virtual Geographic Environments: Managing and Sharing Geographic Knowledge, Hong Kong
- 2013-2014 Member, Scientific Program Committee, 8th International Conference on Geographic Information Science, Vienna, Austria
- 2012-2013 Member, Scientific Program Committee, 4th International Geomorphometry Symposium, Nanjing, China
- 2012-2013 Co-organizer and Chair, Vespucci Workshop on Population, Health and Place, Boone Center for Environmental Leadership, Catalina Island, California
- 2012-2013 Member, Scientific Program Committee, 12th International Conference on Geo-Computation, Wuhan, China

- 2011- Member, Editorial Board, *Geo-Spatial Information Science*
- 2011-2012 Member, Scientific Program Committee, 7th International Conference on Geographic Information Science, Columbus, Ohio
- 2011-2012 Member, Steering Committee, Surface Models for the Geosciences, Ostrava-Poruba, Czech Republic
- 2010-2011 Co-Organizer and Chair, 3rd International Geomorphometry Symposium, Redlands, California
- 2010-2011 Member, Steering Committee, 19th International Conference on Geoinformatics, Shanghai, China
- 2009-2015 Member, Advisory Board, International Collaborative Center for Geo-computation Studies, Wuhan University, Wuhan, China
- 2009-2010 Member, New Zealand Master's GIS Programme Advisory Board
- 2009-2010 Member, Steering Committee, 18th International Conference on Geoinformatics, Beijing, China
- 2009-2010 Member, Scientific Program Committee, International Association of Science and Technology for Development International Conference on Water Resources Management, Garobone, Botswana
- 2008-2009 Member, Scientific Program Committee, 2nd International Geomorphometry Conference, Zurich, Switzerland
- 2007-2008 Member, Scientific Program Committee, International Association of Science and Technology for Development 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, International Association of Science and Technology for Development International Conference on Water Resources Management, Honolulu, Hawaii
- 2006-2007 Chair, International Association of Science and Technology for Development International Conference on Environmental Modeling and Simulation, Honolulu, Hawaii
- 2006 Organizer and Chair, UNIGIS International Network Annual Business Meeting, Los Angeles, California
- 2005-2006 Member, Program Committee, International Association of Science and Technology for Development Environmental Modeling and Simulation Conference, St. Thomas, U.S. Virgin Islands
- 2005-2006 Member, Program Committee, International Symposium on Digital Terrain Analysis and Modeling, Nanjing, China
- 2005-2006 Member, Program Committee, International Association of Science and Technology for Development Environmentally Sound Technology in Water Resource Management Conference, Garobone, Botswana
- 2004 Member, Program Committee, International Association of Science and Technology for Development Environmental Modeling and 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 and 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 and Modeling Workshop, 3rd International Conference Integrating GIS and Environmental Modeling, Santa Fe, New Mexico
- 1995-1996 Member, Scientific Program Committee, 3rd International Conference Integrating GIS and Environmental Modeling, Santa Fe, New Mexico
- 1995 Guest Editor, GIS and Environmental Modeling Special Issue, Vol. 9, Issue No. 4 of *International Journal of Geographic Information Systems*
- 1992-2001 Member, Editorial Board, *Applied Geography*, Butterworth-Heinemann

National

- 2022-2023 Organizer. Transactions in GIS Plenary, Annual Meeting of the American Association of Geographers, Denver, Colorado (Chris Lippitt, University of New Mexico, featured speaker)
- 2022-2023 Co-organizer, NCI Conference on Solving Critical Problems in Cancer Control using Spatial Science, Los Angeles, California
- 2022-2023 Member, Organizing Committee, Symposium on Harnessing the Geospatial Data Revolution for Sustainability Solutions, Annual Meeting of the American Association of Geographers, Denver, Colorado
- 2021-2022 Organizer. Transactions in GIS Plenary, Annual Meeting of the American Association of Geographers, New York, New York (Clio Andris, Georgia Tech, featured speaker)
- 2021-2022 Member, Scientific Program Committee, Symposium on Data-Intensive Geospatial Understanding in the Era of AI and CyberGIS, Annual Meeting of the American Association of Geographers, New York, New York
- 2019-2021 Organizer, Transactions in GIS Plenary, Annual Meeting of the American Association of Geographers, Denver, Colorado (Elizabeth C. Delmelle, University of North Carolina, featured speaker)
- 2019-2020 Member, Scientific Program Committee, 2020 Symposium on Frontiers in CyberGIS and Geospatial Data Science, Annual Meeting of the American Association of Geographers, Denver, Colorado
- 2019 Member, Nominating Committee, University Consortium for Geographic Information Science
- 2018-2023 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, 9th 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, 8th Symposium on CyberGIS and Spatial Data Science, Annual Meeting of the American Association of Geographers, New Orleans, Louisiana
- 2017-2018 Member, Scientific Program Committee, 5th 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, 2nd Workshop on Privacy in Geographic Information Collection and Analysis, 23rd 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: 1st Workshop on Privacy in Geographic Information Collection and Analysis, 22nd Annual ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems, Dallas, Texas
- 2013-2016 Member, WorldMap Advisory Committee, Center for Geographic Analysis, Harvard University
- 2013-2020 Member, Editorial Board, *Association of American Geographers Review of Books*
- 2013-2015 Chair, Geographic Information Science and 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, and 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, 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, National Institutes of Health
- 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, 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 U.S. 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
- 1989 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

- 2022- Member, Dean Search Advisory Committee, School of Architecture
- 2021- Member, Research Data Council Policy and Education Working Group
- 2021- Member, Research Data Council
- 2020- Member, President's Working Group on Sustainability Research Committee
- 2019-2020 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

2004-2020 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
 1998-2002 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, Interdisciplinary Archaeology Program Advisory Committee
 2014-2017 Member, Environmental Studies Program Advisory Committee
 2014-2017 Member, Wrigley Marine Science Center Research Advisory Committee
 2013-2015 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 and 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

USC Department of Economics

2018-2019 Member, Spatial Econometrics Faculty Search Committee

USC Department 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

USC Department of Sociology

2017-2018 Chair, Faculty Promotion and Tenure Committee

2017-2018 Member, RTPC Faculty Promotion Committee

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

USC School of International Relations

2015-2016 Member, Spatial Analysis and International Affairs Faculty Search Committee

USC Spatial Sciences Institute

2022 Chair, Academic Programs Director Search Committee

2021 Chair, Fiscal Administrator Search Committee

2021-2022 Chair, Research, Teaching, Practice and Clinical (RTPC) Faculty Search Committee

2020-2021 Chair, Administrative Assistant II Search Committee

2019-2022 Faculty Lead, Geodesign Fellows Program

2018 Chair, RTPC Faculty Search Committee

2017 Chair, Administrative Assistant I Search Committee

2017 Chair, Fiscal Administrator Search Committee

2016- Chair, Interdisciplinary Population, Health, and Place Ph.D. Program Admissions Committee

2016 Chair, GIS Project Specialist Search Committee

2013 Chair, RTPC Faculty 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, NTT Faculty Search Committee

2010- Founding Director

2010-2011 Member, Secretary II Search Committee

Keck School of Medicine of USC

2022- Member, Social and Environmental Determinants of Health Working Group, Precision Health Initiative

2022- Member, Health Data Innovation Program Strategic Advisory Committee

2020-2021 Member, COVID-19 Pandemic Task Force

Keck Department of Population and Public Health Sciences

2020-2021 Member, Biostatistics Faculty Search Committee

2019-2020 Member, Bioinformatics Faculty Search Committee

Keck Department of Preventive Medicine

2014-2015 Member, Environmental Health Community Outreach and 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
2014-2015 Member, Urban Spatial Ecology Faculty Search Committee

Montana State 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

1994-1995 Chair, Promotion and Tenure Committee
1993 Chair, Urban and Economic Geography Faculty Search Committee
1992 Member, Administrative Assistant Search Committee
1991-1993 Member, Promotion and Tenure Committee
1987-1993 Chair, Geography Graduate Program Committee
1986 Member, Cultural and 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 American Association of Geographers
Applied Geography
Building and Environment
Canadian Journal of Soil Science
Catena
Computers and Geosciences
Computers, Environment, and Urban Systems
Earth Science Informatics
Earth Science Reviews
Earth Surface Processes and Landforms
Ecohydrology
Environment and Planning A: Economy and Space
Environment and Planning B: Urban Analytics and City Science
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 Digital Earth
International Journal of Geographical Information Science
Journal of Environmental Management
Journal of Environmental Quality
Journal of Geographical Systems
Journal of Geography in Higher Education
Journal of Hydraulic Engineering
Journal of Hydrology
Journal of Soil and Water Conservation
Journal of the American Water Resources Association
Mountain Research and Development
Physical Geography
Photochemistry and Photobiology
Photogrammetric Engineering and Remote Sensing
PLoS ONE
Progress in Physical Geography
Science China Earth Sciences
Science of the Total Environment
Soil Science Society of America Journal
The Professional Geographer
Transactions on Spatial Algorithms and Systems
Water Resources Bulletin
Water Resources Research

Academic Program Reviews

- 2017 Master in Geosciences, Geographic Information Science and Technology Option, Department of Geography, College of Geosciences, Texas A&M University
- 2015 Master Program in Geographic Information Systems and Science and 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 and GIS Master's Program, Department of Earth and Environmental Sciences and Department of Geography, Kuwait University, Kuwait City, Kuwait
- 2001 National Environmental Satellite, Data, and Information Service Science Programs, National Oceanic and Atmospheric Administration, Washington, D.C.

Book Manuscripts and Proposals

Academic Press
Blackwell Science
British Society for Geomorphology

Elsevier Science
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
Georgia State University
Hong Kong Baptist University
Hunter College, City University of New York
Northeastern University
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
University of Colorado, Boulder
University of Connecticut
University of Georgia
University of Guelph
University of Idaho
University of Maryland, College Park
University of New Mexico
University of Oregon
University of South Carolina
University of South Florida
University of Texas at Austin
University of Waterloo
University of Wisconsin, Madison
University of Wisconsin, Milwaukee
William and Mary University

Proposal Reviews

American Association for the Advancement of Science
King Abdulaziz Program for Science and Technology

California State University Agricultural Research Institute
Canada Foundation for Innovation
Leaders Opportunity Fund
Civilian Research and Development Foundation
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 Sciences and Engineering Research Council of Canada
Discovery Grants Program
Netherlands Organization for Scientific Research
Grants for Curiosity-driven Research for Astronomy, Computer Science and Mathematics Program
Royal Society Te Apārangi
Marsden Fund
New Zealand Centres of Research Excellence
Science Foundation Ireland
Centres for Research Training Programme
Singapore National Research Foundation
Competitive Research Program
South Carolina Space Grant Consortium
Research and Education Awards Program
United Kingdom Natural Environment Research Council
New Investigator Scheme
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

American Association of Geographers
Association of Pacific Coast Geographers
National Geographic Society
Society for Conservation GIS
Urban and Regional Information Systems Association

Dr. John P. Wilson
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