

JOHN P. WILSON

BIOGRAPHICAL SKETCH



Dr. John P. Wilson is Professor of Spatial Sciences and Sociology in the Dana and David Dornsife College of Letters, Arts and Sciences at the University of Southern California (USC) where he directs the Spatial Sciences Institute as well as the Geographic Information Science & Technology (GIST) Graduate Programs and GIS Research Laboratory, and also holds adjunct appointments as Professor in the School of Architecture and in the Viterbi School of Engineering's Departments of Computer Science and Civil & Environmental Engineering.

From 1998 to 2001 and 2007 to 2010 he was Chair of the Department of Geography at USC, and from 1992 to 1997 he was Professor of Geography in the Department of Earth Sciences, Adjunct Professor in the Department of Plant and Soil Science, and Director of the Geographic Information and Analysis Center (GIAC) at Montana

State University (MSU). His early career was as Assistant Professor (1984-1990) and then Associate Professor of Geography (1990-1994) with corresponding adjunct appointments in 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, University of Canterbury, University of Utrecht, University of Waikato, and most recently, in the Institute of Geographical Sciences and Natural Resources Research at the Chinese Academy of Sciences.

He founded the journal *Transactions in GIS* (Wiley-Blackwell) in 1996 and has served as Editor-in-Chief since its inception. He has served on the editorial boards of *Applied Geography* (1992-2001), the *Annals of the Association of American Geographers* (2006-2009), the *Journal of Geo-Spatial Information Science* (2011-present), and the *Annals of the Association of American Geographers Review of Books* (2013-present). He has chaired the Applied Geography Specialty Group of the Association of American Geographers (1989-1991) and 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 leads the UCGIS GIS&T Body of Knowledge 2.0 project and is an active participant in the UNIGIS International Network, a worldwide consortium of 10+ institutions which collaborates on the development and delivery of online geographic information science academic programs.

His research is focused on the modeling of human and environmental systems and makes extensive use of GIS tools, spatial analysis techniques, and computer models. He has published numerous books and articles on these topics, including two edited volumes, *Terrain Analysis: Principles and Applications* (John Wiley and Sons, 2000) and the *Handbook of Geographic Information Science* (Blackwell Publishers, 2007). Much of this work is collaborative and cross-disciplinary in character with the general goal of improving our knowledge and understanding of the factors linking people, their environments, and human health. The work of his group can be seen on the website <http://spatial.usc.edu/>. He has received numerous honors for his research and teaching, the most recent being recognized as a Fellow of the University Consortium for Geographic Information Science (2014), Special Achievement in GIS Awards for Geospatial Teaching (2008) and Leadership with Geospatial Technology (2006), a Mellon Award for Excellence in Mentoring from the Center for Excellence in Teaching at USC (2005) and the Albert S. Raubenheimer Outstanding Faculty Award for his research, teaching, and service contributions in Dornsife College at USC (2004).

JOHN P. WILSON

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CURRENT APPOINTMENTS

University of Southern California

- 2014- Co-Leader, GIS and Exposure Core, Southern California Environmental Health Sciences Center
- 2011- Professor, Department of Sociology
- 2010- Director, Spatial Sciences Institute
- 2010- Adjunct Professor, School of Architecture
- 2006- Director, Geographic Information Science and Technology Graduate Programs
- 2006- Adjunct Professor, Department of Computer Science
- 2006- Adjunct Professor, Department of Civil and Environmental Engineering
- 1997- Director, GIS Research Laboratory

Chinese Academy of Sciences

- 2014- Visiting Professor (Thousand Talents Program), Institute of Geographical Sciences and Natural Resources Research

Blackwell-Wiley

- 1996- Editor-in-Chief, Transactions in GIS

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

Chinese Academy of Sciences

- 2010-2014 Visiting Professor, Institute of Geographical Sciences and Natural Resources Research

University of Southern California, Los Angeles, California

- 2008-2014 Unit Leader, Geospatial Services, Integrated Health Sciences Facility Core, Southern California Environmental Health Sciences Center

2007-2010 Chair, Department of Geography
 1998-2001 Chair, Department of Geography
 1997-2010 Professor, Department of Geography
 1996-1997 Visiting Professor, Department of Geography
 1995-1996 Visiting Professor, Department of Geography and School of Urban Planning and Development

University of Utrecht, Utrecht, Netherlands

1998 Visiting Belle van Zuylen Chair, Department of Physical Geography

GeoInformation International

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

Australian National University, Canberra, Australia

1994 Visiting Fellow, Centre for Resource and Environmental Studies

University of Waikato, Hamilton, New Zealand

1990 Visiting Lecturer, Department of Geography

Montana State University, Bozeman, Montana

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

University of Toronto, Toronto, Canada

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

University of Canterbury, Christchurch, New Zealand

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

HONORS AND AWARDS

Professional

2014 Fellow, University Consortium for Geographic Information Science
 2008 Special Achievement in GIS Award for Leadership with Geospatial Technology, Esri International User Conference
 2006 Special Achievement in GIS Award for Leadership in Geospatial Teaching, Esri International User Conference
 2005 Best Practices Gold Award for Distance Learning Programming (GEOG 260Lg-Natural Hazards), 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 (GEOG 260Lg-Natural Hazards), 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

- 2008 **Wilson J P** and Fotheringham A S (eds), *Handbook of Geographic Information Science*. Oxford, Blackwell
2000 **Wilson J P** and Gallant J C (eds), *Terrain Analysis: Principles and Applications*. New York, John Wiley and Sons

Book Chapters

- 2014 **Wilson J P**, Towards geodesign: Building new education programs and audiences. In Lee D, Dias E, and Scholten H (eds) *Geodesign By Integrating Design and Geospatial Sciences*. Berlin, Springer: 357-369
2013 **Wilson J P** and Bishop M P, Geomorphometry. In Shroder J F (ed) *Treatise in Geomorphology: Volume 3, Remote Sensing and GIScience in Geomorphology*. San Diego, CA, Academic Press: 162-186
2012 **Wilson J P** and Goodchild M F, Rethinking spatial sciences education programs. In Jekel T, Car A, Strobl J, and Griesebner G (eds) *Geoinformatics Forum 2012: Geovisualization, Society and Learning Conference Proceedings*. Berlin, Wichmann: 242-245
2012 Wolch J, Longcore T, and **Wilson J P**, Unpaving paradise: The Green Visions Plan for southern California. In Sloane D (ed) *Planning Los Angeles*. Los Angeles, CA, APA Planners Press: 230-239
2008 **Wilson J P**, Aggett G R, Deng Y X, and Lam C S, Water in the landscape: A review of contemporary flow routing algorithms. In Zhou Q, Lees B G, and Tang G-A (eds), *Advances in Digital Terrain Analysis*. Berlin, Springer Lecture Notes in Geoinformation and Cartography: 213-36
2008 Goldberg D W, **Wilson J P**, and Knoblock C A, Exploring the use of gazetteers and geocoders for the analysis and interpretation of a dynamically changing world. In Hornsby K S and Yuan M (eds), *Understanding the Dynamics of Geographic Domains*. Boca Raton, FL, CRC Publishers: 51-74
2008 **Wilson J P** and Deng Y X, Terrain analysis. In Kemp K K (ed), *Encyclopedia of Geographic Information Science*. Thousands Oaks, CA, Sage Publications: 465-67
2008 Fotheringham A S and **Wilson J P**, Geographic information science: An introduction. In Wilson J P and Fotheringham A S (eds), *Handbook of Geographic Information Science*. Oxford, Blackwell: 1-10
2008 Deng Y X, **Wilson J P**, and Gallant J C, Terrain analysis. In Wilson J P and Fotheringham A S (eds), *Handbook of Geographic Information Science*. Oxford, Blackwell: 417-35
2004 Ryan C M, **Wilson J P**, and Fulton B, Living on the edge: Growth policy choices for Ventura County. In Wolch J, Pastor M, and Dreier P (eds), *Up Against the Sprawl: Public Policy and the Making of 21st Century Los Angeles*. Minneapolis, MN, University of Minnesota Press: 309-41

- 2000 **Wilson J P** and Gallant J C, Digital terrain analysis. In Wilson J P and Gallant J C (eds), *Terrain Analysis: Principles and Applications*. New York, John Wiley and Sons: 1-27
- 2000 Gallant J C and **Wilson J P** Primary topographic attributes. In Wilson J P and Gallant J C (eds), *Terrain Analysis: Principles and Applications*. New York, John Wiley and Sons: 51-85
- 2000 **Wilson J P** and Gallant J C, Secondary topographic attributes. In Wilson J P and Gallant J C (eds), *Terrain Analysis: Principles and Applications*. New York, John Wiley and Sons: 87-131
- 2000 **Wilson J P**, Repetto P L, and Snyder R D, Effect of data source, grid resolution, and flow routing method on computed topographic attributes. In Wilson J P and Gallant J C (eds), *Terrain Analysis: Principles and Applications*. New York, John Wiley and Sons: 133-61
- 2000 Wheatley J M, **Wilson J P**, Ma Z, Redmond R L, and DiBenedetto J, Automated land cover mapping using LANDSAT TM images and topographic attributes. In Wilson J P and Gallant J C (eds), *Terrain Analysis: Principles and Applications*. New York, John Wiley and Sons: 355-89
- 2000 Gallant J C, Hutchinson M F, and **Wilson J P**, Future directions for terrain analysis. In Wilson J P and Gallant J C (eds), *Terrain Analysis: Principles and Applications*. New York, John Wiley and Sons: 523-27
- 1999 **Wilson J P** and Lorang M S, Spatial models of soil erosion and GIS. In Fotheringham A S and Wegener M (eds), *Spatial Models and GIS: New Potential and New Models*. London, Taylor and Francis: 83-108
- 1999 **Wilson J P**, Local, national, and global applications of GIS in agriculture. In Longley P A, Maguire D J, Goodchild M F, and Rhind D W (eds), *Geographical Information Systems: Volume 2, Management Issues and Applications*. New York, John Wiley and Sons: 981-98 (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 Corwin D L, Loague K, and Ellsworth T R (eds), *Advanced Information Technologies for Assessing Nonpoint Source Pollution in the Vadose Zone*. Washington, D.C., American Geophysical Union: 343-61
- 1998 **Wilson J P** and Gallant J C, Terrain-based approaches to environmental resource evaluation. In Lane S N, Richards K S, and Chandler J H (eds), *Landform Monitoring, Modeling and Analysis*. London, John Wiley and Sons: 219-40
- 1995 Spangrud D J, **Wilson, J P**, Jacobsen J S, Nielsen, G A, and Tyler D A, Sensitivity of computed terrain attributes to the number and pattern of GPS-derived elevation data. In Robert P C and Rust R H (eds), *Site-Specific Management for Agricultural Systems*. Madison, WI, American Society of Agronomy: 285-301
- 1993 Moore I D, Turner A K, **Wilson J P**, Jenson S K, and Band L E, GIS and land surface-subsurface process modeling. In Goodchild M F, Parks B O, and Steyaert L T (eds), *Environmental Modeling with GIS*. New York, Oxford University Press: 197-230
- 1990 Moore I D, Grayson R B, and **Wilson J P**, Runoff modeling in complex three-dimensional terrain. In Lang H and Musy A (eds), *Hydrology in Mountainous Regions: Hydrological Measurements, The Water Cycle*. Wallingford, International Association of Hydrological Sciences Publication No. 193: 591-98
- 1988 **Wilson J P**, The management of soil and water resources: Information requirements and models. In Bedford R D (ed), *Geography: A Celebration*. Christchurch, University of Canterbury: 84-109
- 1981 Pushchak R and **Wilson J P**, Environmental impact assessment for urban natural areas. In Andrews W A and Cramner-Byng J L (eds), *Urban Natural Areas: Ecology and Preservation*. Toronto, Institute for Environmental Studies Environmental Monograph No. 2: 73-90

- 1981 Lea A C and **Wilson J P**, Subsystems studies: Socio-economic factors. In Andrews W A and Cramner-Byng J L (eds), *Urban Natural Areas: Ecology and Preservation*. Toronto, Institute for Environmental Studies Environmental Monograph No. 2: 175-98

Refereed Journal Articles

- 2015 Kim K and **Wilson J P**, Planning and visualizing 3D routes for indoor and outdoor spaces in CityEngine. *Journal of Spatial Science* 60: in press
- 2015 Cederbaum J A, Petering R, Hutchinson M K, He A S, **Wilson J P**, Jemmott J B, and Jemmott L S, Alcohol outlet density and related use within an urban population in Philadelphia public housing communities. *Health and Place* 31: 31-38
- 2014 Brandt S J, Perez L, Künzli N, Lurmann F, **Wilson J P**, Pastor M, and McConnell R, Near-roadway air pollution and the cost of childhood asthma exacerbations in Los Angeles County. *Journal of Allergy and Clinical Immunology* 134: 1028-1035
- 2014 Lue E, **Wilson J P**, and Curtis A, Conducting disaster damage assessments with spatial video, experts and the inexperienced public. *Applied Geography* 52: 46-54
- 2014 Chen Y, Zhou Q, Li S, Meng F, Bi X, **Wilson J P**, Xing Z, and Qi J, The simulation of surface flow dynamics using a flow path network model. *International Journal of Geographical Information Science* 28: 2242-2260
- 2014 Shahabi K and **Wilson J P**, CASPER: Intelligent capacity-aware urban routing. *Computers, Environment and Urban Systems* 46: 12-24
- 2014 Hricko A, Rowland G, Eckel S, Logan A, Taher M, and **Wilson J P**, Global trade, local impacts: Lessons from California on health impacts related and environmental justice concerns for residents living near freight rail yards. *International Journal of Environmental Research and Public Health* 11: 1914-1941
- 2014 Ghaemi P, Shahabi K, **Wilson J P**, and Banaei-Kashani F, A comparative study of two approaches for supporting optimal network location queries. *Geoinformatica* 18: 229-251
- 2014 Dueker D, Taher M, **Wilson J P**, and McConnell R S, Evaluating children's locations using a personal GPS logging instrument: Limitations and lessons learned. *Journal of Exposure Science and Environmental Epidemiology* 24: 244-252
- 2012 Perez L, Lurmann F, **Wilson J P**, Pastor M, Brandt S J, Künzli N, and McConnell R Near-roadway pollution and childhood asthma: Implications for developing "win-win" compact urban development and clean vehicle strategies. *Environmental Health Perspectives* 120: 1619-1626
- 2012 Chen Y, **Wilson J P**, Zhu Q, and Zhou Q, Comparison of drainage-constrained methods for DEM generalization. *Computers and Geosciences* 48: 41-49
- 2012 Swift J N, **Wilson J P**, and Nguyen T, Estimated temporal variation of losses due to a recurrence of the 1933 Long Beach earthquake. *Earthquake Spectra* 28: 347-365
- 2012 **Wilson J P**, Digital terrain modeling. *Geomorphology* 137: 107-121
- 2010 Longcore T R, Kobernus P, Lam C S, Polk E, and **Wilson J P**, Extracting useful data from imperfect monitoring schemes: Endangered butterflies at San Bruno Mountain, San Mateo County, California (1982-2000) and implications for habitat management. *Journal of Insect Conservation* 14: 335-46
- 2010 Sister C E, Wolch J, and **Wilson J P**, Got green? Addressing environmental injustice in park provision. *GeoJournal* 75: 229-48

- 2009 Aggett G R and **Wilson J P**, Creating and coupling a high-resolution LiDAR-based DTM with a 1-D hydraulic model in a GIS for scenario-based assessment of avulsion hazard in a gravel bed river. *Geomorphology* 113: 21-34
- 2009 Ghaemi P, Swift J N, Sister C E, **Wilson J P**, and Wolch J, Design and implementation of a Web-based platform to support interactive environmental planning. *Computers, Environment and Urban Systems* 33: 482-91
- 2009 Goldberg D W, **Wilson J P**, and Knoblock C A, Extracting geographic features from the Internet to automatically build detailed regional gazetteers. *International Journal of Geographical Information Science* 23: 93-128
- 2009 Sheng J, **Wilson J P**, and Lee S J, Comparison of land surface temperature (LST) modeled with a spatially distributed solar radiation model (SRAD) and remote sensing data. *Environmental Modeling and Software* 24: 436-43
- 2009 Sheng J and **Wilson J P**, Watershed urbanization and changing flood behavior across the Los Angeles metropolitan region. *Natural Hazards* 48: 41-57
- 2008 Deng Y X and **Wilson J P**, Multi-scale and multi-criteria mapping of mountain peaks as fuzzy entities. *International Journal of Geographical Information Science* 22: 205-18
- 2008 Goldberg D W, **Wilson J P**, Knoblock C A, Ritz B, and Cockburn M G, An effective and efficient approach for manually improving geocoded data. *International Journal of Health Geographics* 7: 60
- 2007 Shankardass K, McConnell R S, Milam J, Berhane K, Tatalovich Z, **Wilson J P**, and Jerrett M, The association between contextual socioeconomic factors and prevalent asthma in a cohort of southern California school children. *Social Science and Medicine* 65: 1792-806
- 2007 Bou Kheir R, **Wilson J P**, and Deng Y X, Use of terrain variables for mapping gully erosion susceptibility in Lebanon. *Earth Surface Processes and Landforms* 32: 1770-82
- 2007 Deng Y X, Chen X, Chuvieco E, Warner T A, and **Wilson J P**, Multi-scale linkages between topographic attributes and vegetation indices in a mountainous landscape. *Remote Sensing of Environment* 111: 122-34
- 2007 Sheng J, **Wilson J P**, Chen N, Sayre J M, and Devanny J S, Evaluating the quality of the National Hydrography Dataset for watershed assessments in metropolitan regions. *GIScience and Remote Sensing* 44: 1-22
- 2007 **Wilson J P**, Lam C S, and Deng Y X, Comparison of the performance of flow routing algorithms used in GIS-based hydrologic analysis. *Hydrological Processes* 21: 1026-44
- 2007 Goldberg D W, Knoblock C A, and **Wilson J P**, From text to geographic coordinates: The current state of geocoding. *Journal of the Urban and Regional Information Systems Association* 19: 33-46
- 2007 Deng Y X, **Wilson J P**, and Bauer B O, DEM resolution dependencies of terrain attributes across a landscape. *International Journal of Geographical Information Science* 21: 187-213
- 2006 Tatalovich Z, **Wilson J P**, McConnell R, Milam J, and Jerrett M, Competing definitions of activity spaces and neighborhoods. *International Journal of Health Geographics* 5: 55 (available at <http://www.ij-healthgeographics.com/content/5/1/55>)
- 2006 Tatalovich Z, **Wilson J P**, and Cockburn M G, A comparison of Thiessen polygon, kriging, and spline models of potential UV exposure. *Cartography and Geographic Information Science* 33: 217-37
- 2006 Deng Y X, Wilson J P, and Sheng J, Effects of variable attribute weights on landform classification. *Earth Surface Processes and Landforms* 31: 1452-62

- 2006 Tatalovich Z, **Wilson J P**, Mack T, Ying Y, and Cockburn M G, The objective assessment of lifetime cumulative ultraviolet exposure for determining melanoma risk. *Journal of Photochemistry and Photobiology B: Biology* 85: 198-204
- 2006 Deng Y X and **Wilson J P**, Role of attribute selection in GIS representations of the biophysical environment. *Annals of the Association of American Geographers* 96: 47-63
- 2005 Wolch J, **Wilson J P**, and Fehrenbach J, Parks and park funding in Los Angeles: An equity mapping analysis. *Urban Geography* 26: 4-35
- 2004 **Wilson J P**, Lam C S, and Holmes-Wong, D H, A new method for the specification of geographic footprints in digital gazetteers. *Cartography and Geographic Information Science* 31: 195-207
- 2004 Longcore T R, Li C Q, and **Wilson J P**, Applicability of CITYgreen urban ecosystem analysis software to a densely built urban neighborhood. *Urban Geography* 25: 173-86
- 2001 Burrough P A, **Wilson J P**, van Gaans P F M, and Hansen A J, Fuzzy k-means classification of digital elevation models as an aid to forest mapping in the Greater Yellowstone Area, USA. *Landscape Ecology* 16: 523-46
- 2000 Skinner K M, Kemp W P, and **Wilson J P**, GIS-based plant and grasshopper community indicators in Montana. *Transactions in GIS* 4: 113-28
- 2000 **Wilson J P**, Mitasova H, and Wright D S, Water resource applications of geographic information systems. *URISA Journal* 12(2): 61-79
- 1999 **Wilson J P** and Burrough P A, Dynamic modeling, geostatistics, and fuzzy classification: New sneakers for a new geography? *Annals of the Association of American Geographers* 89: 736-46
- 1998 **Wilson J P**, Spangrud D J, Nielsen G A, Jacobsen J S, and Tyler D A, Global positioning system sampling intensity and pattern effects on computed topographic attributes. *Soil Science Society of America Journal* 62: 1410-17
- 1996 **Wilson J P**, Inskeep W P, Wraith J M, and Snyder R D, GIS-based solute transport modeling applications: Scale effects of soil and climate data input. *Journal of Environmental Quality* 25: 445-53
- 1996 **Wilson J P** and Gallant J C EROS: A grid-based program for estimating spatially distributed erosion indices. *Computers and Geosciences* 22: 707-12
- 1996 Gallant J C and **Wilson J P**, TAPES-G: A terrain analysis program for the environmental sciences. *Computers and Geosciences* 22: 713-22
- 1996 Inskeep W P, Wraith J M, **Wilson J P**, Snyder R D, and Macur R E, Input parameter and model resolution effects on predictions of solute transport. *Journal of Environmental Quality* 25: 453-62
- 1996 Custer S G, Farnes P, **Wilson J P**, and Snyder R D, A comparison of hand- and spline-drawn precipitation maps for mountainous Montana. *Water Resources Bulletin* 32: 393-405
- 1995 **Wilson J P**, Re-inventing local government with GIS. *Public Works* 126(5): 38-39, 83 (invited article that includes cover photograph and story about author)
- 1995 Magnant J, Palakovich S, and **Wilson J P** Constructing GIS base maps from existing data sources: The Bozeman experience. *Public Works* 126: 50-52
- 1994 **Wilson J P** and Seney J, Erosional impact of hikers, horses, motorcycles and off-road bicycles on mountain trails in Montana. *Mountain Research and Development* 14: 77-88
- 1994 Moore, I.D. and **Wilson J P**, Reply to "Comment on length-slope factors for the Revised Universal Soil Loss Equation: Simplified method of estimation" by G R Foster. *Journal of Soil and Water Conservation* 49: 174-80

- 1994 Magnant J, Palakovich S, and **Wilson J P**, Constructing GIS base maps from existing data sources: The Bozeman experience. *Montana Policy Review* 4: 9-18
- 1994 **Wilson J P**, The power of GIS applied to local government. *Montana Policy Review* 4: 1-7
- 1993 **Wilson J P**, Inskeep W P, Rubright P R, Cooksey D, Jacobsen J S, and Snyder R D, Coupling geographic information systems and models for weed control and groundwater protection. *Weed Technology* 6: 255-64
- 1992 **Wilson J P**, Gerhart K E S, Nielsen G A, and Ryan C M, Climate, soils, and crop yield relationships in Cascade County, Montana. *Applied Geography* 12: 261-79
- 1992 Moore I D and **Wilson J P**, Length-slope factors for the Revised Universal Soil Loss Equation: Simplified method of estimation. *Journal of Soil and Water Conservation* 47: 423-28
- 1991 Baumbauer C, Wyckoff W K, and **Wilson J P**, Dryland agricultural development in the Montana Triangle, 1890-1945. *Great Plains-Rocky Mountain Geographical Journal* 18: 39-49
- 1991 **Wilson J P**, Sandor S P, and Nielsen G A, Productivity Index model modified to estimate field variability of Montana small grain yields. *Soil Science Society of America Journal* 55: 228-34
- 1990 Hansen K J, Ives J D, and **Wilson J P**, Response to 'Comment on climatic variability and tree response within the forest-alpine tundra ecotone' by D K Yamaguchi. *Annals of the Association of American Geographers* 80: 291-94
- 1989 **Wilson J P**, Soil Erosion from agricultural land in the Lake Simcoe-Couchiching Basin, 1800-1981. *Canadian Journal of Soil Science* 69: 137-51
- 1988 **Wilson J P** and Ryan C M, Landscape change in the Lake Simcoe-Couchiching Basin, 1800-1983. *Canadian Geographer* 32: 206-22
- 1988 Hansen K J, Ives J D, and **Wilson J P**, Climatic variability and tree response within a mountain ecotone. *Annals of the Association of American Geographers* 78: 505-19
- 1986 **Wilson J P**, Estimating the topographic factor in the Universal Soil Loss Equation for watersheds. *Journal of Soil and Water Conservation* 41: 179-84
- 1983 Burton I, **Wilson J P**, and Munn R E, Environmental impact assessment: National approaches and international needs. *Environmental Monitoring and Assessment* 3: 133-50
- 1982 **Wilson J P**, Internal migration in the central Pacific: Identifying migrant subgroups using census data. *New Zealand Population Review* 8(3): 37-49
- 1981 **Wilson J P** and Bedford R D, The measurement of internal migration: Issues arising from a recent census in the central Pacific. *New Zealand Population Review* 7(2): 27-38
- 1981 Liverman D M and **Wilson J P**, The Mississauga train derailment and evacuation, November 10-16th, 1979. *Canadian Geographer* 25: 365-75

Conference and Symposium Proceedings

- 2014 Banaei-Kashani F, Ghaemi P, and **Wilson J P**, Maximal reverse skyline query. In *Proceedings of the Twenty-second ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems*, Dallas, Texas
- 2012 Ghaemi P, Shahabi K, **Wilson J P**, and Banaei-Kashani F, Continuous maximal reverse nearest neighbor query on spatial networks. In *Proceedings of the Twentieth ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems*, Los Angeles, California

- 2010 Ghaemi P, Shahabi K, **Wilson J P**, and Banaei-Kashani F, Optimal network location queries. In *Proceedings of the Eighteenth ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems*, San Jose, California
- 2010 Lee S J, Longcore T R, and **Wilson J P**, Identification of municipal policies that influence the distribution of green cover across metropolitan regions. In *Proceedings of the Fourteenth International Symposium on Spatial Data Handling*, Hong Kong
- 2010 Goldberg D W, **Wilson J P**, and Cockburn M G, Toward quantitative geocode accuracy metrics. In *Proceedings of the Ninth International Symposium on Spatial Accuracy Assessment in Natural Resources and Environmental Sciences*, Leicester, United Kingdom (available at <http://www.accuracy2010.org/>)
- 2010 Nguyen T M and **Wilson J P**, Sensitivity of quasi-dynamic topographic wetness index to choice of DEM resolution, flow routing algorithm, and soil variability. In *Proceedings of the Ninth International Symposium on Spatial Accuracy Assessment in Natural Resources and Environmental Sciences*, Leicester, United Kingdom (available at <http://www.accuracy2010.org/>)
- 2007 Goldberg D W, Zhang X, Marusek J C, **Wilson J P**, Ritz B, and Cockburn M G, Development of an automated pesticide exposure analyst for California's Central Valley. In *Proceedings of the Urban and Regional Information Systems Association GIS in Public Health Conference*, New Orleans, Louisiana: 136-56
- 2003 Knoblock C A, Shahabi C, and **Wilson J P**, Rapid integration of online and geospatial data sources for knowledge discovery. In *Proceedings of the University Consortium for Geographic Information Science Visualization Workshop*, Washington, D.C. (available at <http://www.ucgis.org/Visualization/whitepapers/Shahabi.pdf>)
- 2002 Lam C S, **Wilson J P**, and Holmes-Wong D H, Building a neighborhood-specific gazetteer for a digital archive. In *Proceedings of the Twenty-second International Esri User Conference*, San Diego, California (Redlands, CA, Esri: CD-ROM)
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Chen Z, Salam M T, Toledo-Corral C, Watanabe R M, Xiang A H, Buchanan T A, Habre R, Bastain T M, Lurmann F, Taher M, **Wilson J P**, Trigo E, Gilliland F D, Ambient air and traffic related pollutants have adverse effects on insulin and glucose homeostasis in Mexican Americans. *New England Journal of Medicine* (first draft near completion)

Ghosh R, Lurmann F, Perez L, Penfold B, Brandt S, **Wilson J P**, Millet M, Kunzli N, and McConnell R, Near roadway air pollution and coronary heart disease: Burden of disease and potential impact of greenhouse gas reduction. *Environmental Health Perspectives* (revised and resubmitted 10/14)

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Wang Q, Liu X, Yue T-X, Wang C, and **Wilson J P**, Spatio-temporal variations of food provision and food potential across China's agro-ecosystems. *Ecological Modeling* (revised and resubmitted 11/14)

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PRESENTATIONS

Conferences and Workshops

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, Fan Z-M, Shi W-J, Wang, S-H, Wang C-L, Yan C-Q, Li Q-Q, Sun X-F, Yang H, Xu B, and **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*. Ninth International Workshop on Geographical Information Science (IWGIS 2014: Major Emerging GIScience Research Challenges), 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 **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, and Weissfeld 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 & Everywhere: Recasting the Spatial Sciences to Serve a Spatializing World*. UNIGIS-Amsterdam 20th Anniversary Symposium, Leerdam, The Netherlands
- 2013 Kim K and **Wilson J P** *Using CityEngine to Plan and Visualize Routes in Indoor and Outdoor Spaces*. Annual Esri International 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)*. Fourth 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** and Goodchild M F, *How Should GIS Education Be Reshaped to Serve Future Needs?* Sixth 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, DC
- 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, and Sloane D, *Creating a B.S. in GeoDesign at the University of Southern California*. Third Annual GeoDesign Summit, Redlands, California
- 2012 **Wilson J P**, *GeoDesign Education: Where Are We and Where are We Going? (Panel Discussion)*. Third Annual GeoDesign Summit, Redlands, California
- 2011 Lee S J, Longcore T, and **Wilson J P**, *Monitoring Urban Land Cover Change Using GIS and Remote Sensing: A Los Angeles County Case Study*. Thirty-first International Esri User Conference, San Diego, California
- 2011 Lee S J, Longcore T, and **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**, *Geography and Our Digital Futures: A 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: A Panel Discussion*. Summer Assembly of the University Consortium of Geographic Information Science, Hilton Head Island, South Carolina
- 2010 Lee S J, Longcore T, and **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**, and 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, DC
- 2010 **Wilson J P**, *Panel Discussion: Community of Professional Graduate Programs in GIS&T*. Annual Meeting of the Association of American Geographers, Washington, DC
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- 2009 Jerrett M, Berhane K, Chang C-C, Wolch J, Reynolds K, **Wilson J P**, Gilliland F, and 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**, and Cockburn M G, *Modeling Potential UV Exposure for Objective Assessment of Melanoma Risk*. Annual CDC Conference on the Future of Environmental Public Health, Washington, DC
- 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 (GIS-IDEAS), Hanoi, Vietnam
- 2008 **Wilson, J.P**, *GIScience Journal Editors: A Panel Discussion*. International Conference on Geographic Information Science (GIScience 2008), Park City, Utah
- 2008 Goldberg D W, Cockburn M G, and **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**, and 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
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- 2008 Sister C E, Boone C G, **Wilson J P**, and 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**, and 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
- 2006 **Wilson J P**, Lam C S, Deng Y-X, and Aggett G A, *From Precipitation to Streamflow: Simulating the Movement of Water within Landscapes*. International Symposium on Terrain Analysis and Digital Terrain Modelling (TADTM 2006), Nanjing, China
- 2006 **Wilson J P**, Swift J N, and Tatalovich Z, *Place-based Decision Support for Spatial and Temporal Transference of Risk and Hazards*. National Science Foundation Human and Social Dynamics Program Principal Investigator Meeting, Washington, DC
- 2006 Shankardass K, McConnell R, Milam J, Tatalovich Z, **Wilson J P**, and 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 and **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**, and 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**, and Devlinny 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**, and 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*. University Consortium for Geographic Information Science Winter Meeting, Washington, D.C.
- 2005 **Wilson J P**, *Role of Interpolation in GIS-based Climate Impact Studies*. National Center for Atmospheric Research (NCAR) 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*. University Consortium for Geographic Information Science Summer Assembly, Jackson Hole, Wyoming
- 2005 Goldberg D W, Knoblock C A, and **Wilson J P**, *Extracting Geographic Features from the Internet to Automatically Build Detailed Regional Gazetteers*. Second Annual Electronic Cultural Atlas Initiative (ECAI) Congress, Shanghai, China
- 2005 Sheng J, Deng Y X, and **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**, and 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, and **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 and **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 and **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**, Chabukwar R, and 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, and Shahabi C, *Rapid Data Integration in Response to Unexpected Events*. University Consortium for Geographic Information Science Winter Meeting, Washington, DC
- 2004 Deng Y X and **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, and **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, and 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 and **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, and **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*. Sixth Annual Conference on Teaching, Learning, and Technology, University of Southern California, Los Angeles, California
- 2003 Lam C S, **Wilson J P**, Holmes-Wong D, and 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, Longcore T, and **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**, and Holmes-Wong D, *Building a Neighborhood-specific Gazetteer for a Digital Archive*. Twenty-second International 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*. University of Southern California GIS and Spatial Statistics in Epidemiology Workshop, Pasadena, California
- 2002 Longcore T and **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, and Hansen A J, *Fuzzy k-means Classification of Digital Elevation Models as an Aid to Biodiversity Assessments*. Annual Meeting of the Association of American Geographers, Honolulu, Hawaii
- 1999 **Wilson J P**, *Water Resource Applications of GIS*. University Consortium for Geographic Information Science Summer Assembly, Minneapolis-St. Paul, Minnesota
- 1998 Hunt L, **Wilson J P**, and 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, and 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, and Thornton P, *Evaluating GIS-based Simulations of Precipitation: Methods, Problems and Performance*. Second Australian Workshop in Environmental Applications of GIS, Kiola, Australia

- 1997 **Wilson J P**, *Current and Future Trends in the Development of Integrated Technologies for Assessing Non-point Source Pollution*. Joint American Geophysical Union Chapman-Soil Science Society of America Outreach Conference on Application of GIS, Remote Sensing, Geostatistics, 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*. Ninth Annual Montana GIS Conference, Missoula, Montana
- 1996 **Wilson J P** and Petch J, *UNIGIS Distance Learning Diploma, Technology, and User Needs*. Second International Conference on GIS and Higher Education, Baltimore, Maryland
- 1996 Stillman S T, **Wilson J P**, Daly C, Hutchinson M F, and Thornton P, *Comparison of ANUSPLIN, MTCLIM-3D, and PRISM Precipitation Estimates*. Third International Conference Integrating GIS and Environmental Modeling, Santa Fe, New Mexico
- 1996 **Wilson J P**, *GIS-based Land Surface/Subsurface Modeling: New Potential for New Models?* Third International Conference Integrating GIS and Environmental Modeling, Santa Fe, New Mexico
- 1996 Stillman S T and **Wilson J P**, *Comparison of ANUSPLIN, MTCLIM-3D and PRISM Models for Estimating Mean Annual and Monthly Precipitation*. Ninth Annual Montana GIS Conference, Missoula, Montana
- 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** and Gallant J C, *Terrain-based Approaches to Environmental Resource Evaluation*. Annual Meeting of the British Geomorphology Research Group, Cambridge, England
- 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, and 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, and 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 and **Wilson J P**, *Comparison of ANUSPLIN Precipitation Surfaces and Hand-Contoured Maps in Southwestern Montana and Wyoming*. Eighth Annual Montana GIS Conference, Helena, Montana
- 1995 Wheatley J M, **Wilson J P**, and Nielsen G A, *Using Terrain Attributes to Improve the Accuracy of LANDSAT Remote Sensing Vegetation Maps*. Eighth Annual Montana GIS Conference, Helena, Montana
- 1995 Magnant J, Beland D, and **Wilson J P**, *Use of GIS for Critical Lands Strategic Planning in Bozeman*. Eighth Annual Montana GIS Conference, Helena, Montana
- 1995 **Wilson J P**, *GIS-based Solute Transport Modeling Applications: Scale Effects and Estimation Methods*. Eighth Annual Montana GIS Conference, Helena, Montana
- 1995 Repetto P L and **Wilson J P**, *Sensitivity of RUSLE Outputs to GIS Methods Used to Calculate Topographic Inputs*. Eighth Annual Montana GIS Conference, Helena, Montana

- 1995 Gillett L E, **Wilson J P**, and Kemp W P, *Spatial Variability of Grassland NDVI Values by Ecoregion and Land Cover Type in the Northern Great Plains*. Eighth Annual Montana GIS Conference, Helena, Montana
- 1995 **Wilson J P**, Custer S G, Farnes P, Landenburger L A, and 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, and **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** and Inskeep W P, *Using the Arc/Info GIS and CMLS Solute Transport Model for Predicting Pesticide Movement into Groundwater*. Annual Meeting of the Montana Division, American Water Resources Association, Bozeman, Montana
- 1994 **Wilson J P**, Spangrud D J, Landon M, Jacobsen J S, and 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**, and 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, and **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*. Sixth 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, and Tyler D, *Sensitivity of Computed Terrain Attributes to the Number and Pattern of GPS-derived Elevation Data*. Second International Conference on Site-Specific Management for Agricultural Systems, Minneapolis-St. Paul, Minnesota
- 1993 **Wilson J P**, Shovic H W, Moore I D, Landenburger L A, and Snyder R D, *Modeling Landforms and Soils in Yellowstone National Park*. Thirteenth International Esri User Conference, Palm Springs, California
- 1993 **Wilson J P** and Forer P, *Taking Instruction beyond the GIS Laboratory*. Thirteenth International Esri User Conference, Palm Springs, California
- 1993 Lorbeer S, Jacobsen J S, **Wilson J P**, and 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**, and 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**, and 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, and **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, and Cooksey D, *Coupling Geographic Information Systems and Models for County-scale Groundwater 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, and Rubright P, *Coupling Geographic Information Systems and Models for County-scale Groundwater Pollution Assessments*. Twelfth International Esri User Conference, Palm Springs, California
- 1992 **Wilson J P**, *GIS Education and Training Opportunities at Montana State University*. Twelfth International Esri User Conference, Palm Springs, California
- 1992 **Wilson J P**, *Terrain-based Models for the Distributed Hydrological 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, and Snyder R D, *Coupling Geographic Information Systems and Models for Weed Control and Groundwater Protection*. Annual Meeting of the Weed Science Society of America, Orlando, Florida
- 1992 McEachern K, Jacobsen J S, Nielsen G A, and **Wilson J P**, *Use of Soil and Terrain Attributes for Predicting Soil Fertility*. Great Plains Soil Fertility Conference, Denver, Colorado
- 1991 **Wilson J P**, *When is a GIS Needed?* Fourth Annual Montana GIS Conference, Bozeman, Montana
- 1991 McEachern K, Jacobsen J S, Nielsen G A, and **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, and **Wilson J P**, *GIS-based Evaluations of Pesticide Groundwater Contamination Potential*. Annual Meeting of the American Society of Agronomy, Denver, Colorado
- 1991 Moore I D, Turner K, **Wilson J P**, Jenson S, and 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, and Moore I D, *Comparison of Grid, TIN, and Contour-based Digital Elevation Models for Terrain Analysis*. Annual Meeting of the Association of American Geographers, Miami, Florida
- 1990 **Wilson J P**, *Contribution of Soil Survey to Soil Erosion/Crop Productivity Models*. Montana Interagency Soil Survey Conference, Bozeman, Montana
- 1990 **Wilson J P**, *GIS Education Opportunities at Montana State University*. Third Annual Montana GIS Conference, Missoula, Montana
- 1990 **Wilson J P**, *GIS Research Projects at Montana State University*. Third Annual Montana GIS Conference, Missoula, Montana

- 1990 **Wilson J P**, Jacobsen J S, and Nielsen G A, *Agricultural Applications of GIS*. Annual Meeting of Montana Agricultural Experiment Station and Extension Service, Bozeman, Montana, 1990
- 1990 **Wilson J P** and Jacobsen J S, *Agricultural Applications of GIS*. Annual Meeting of Montana Wheat and Barley Growers Association, Great Falls, Montana
- 1990 Seney J and **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, and **Wilson J P**, *Runoff Modeling in Complex Three-dimensional Terrain*. International Conference on Water Resources in Mountainous Regions and Thirty-second Congress of International Association of Hydrogeologists, Lausanne, Switzerland
- 1990 Ladson A R, Moore I D, and **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 and **Wilson J P**, *Terrain Modeling Techniques*. Precision Farming in the 90's Workshop, Power, Montana
- 1990 Ladson A R, **Wilson J P**, and Moore I D, *Landscape Analysis and Modeling Using Digital Terrain Analysis*. Annual Meeting of the Association of American Geographers, Toronto, Ontario
- 1990 **Wilson J P**, *GIS Applications Combining Soil Surveys and Simulation Models*. Montana Interagency Soil Survey Conference, Bozeman, Montana
- 1989 **Wilson J P**, Sandor S, Nielsen G A, and S. McConnell S, *A Productivity Index Model for Montana Soils*. Annual Meeting of the Western Soil Science Society, Bozeman, Montana
- 1989 Pings J C and **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** and 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** and Nielsen G A, *Quantifying the Effects of Erosion on Soil Productivity in Montana*. Twenty-sixth Congress of International Geographical Union, Sydney, Australia
- 1988 **Wilson J P**, *GIS Applications in City and County Government*. Annual Meeting of Montana Association of Planners, Kalispell, Montana
- 1988 **Wilson J P**, *Modeling the Impacts of Erosion on Crop Productivity*. Montana Interagency Soil Survey Conference, Bozeman, Montana
- 1988 **Wilson J P**, *Agricultural Applications of GIS*. First Annual Montana GIS Annual Conference, Helena, Montana
- 1987 Gerhart K E S and **Wilson J P**, *Using the Productivity Index (PI) Model to Generate Countywide 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 and **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 and **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 and **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** and 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 and **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, DC
- 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, and White A V, *The Mississauga Evacuation: A Study of Public Response and Attitudes*. Annual Meeting of the Canadian Association of Geographer, Montreal, Quebec

Webinars and Videos

- 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 (October)
- 2014 Kumar, S and **Wilson J P**, *Introducing GeoHealth* (Webinar). Master of Public Health, Keck School of Medicine, University of Southern California (October)
- 2014 **Wilson J P**, *An Introduction to the New Graduate Certificate Programs* (Webinar). Geographic Information Science and Technology Graduate Programs, University of Southern California (July)
- 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, and 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, and Phillips C G, *Exploring the Diversity of Opportunities in Geodesign Education* (Webinar). Directions Magazine (June)
- 2013 **Wilson J P**, *Introducing the Spatial Sciences Institute* (Webinar). Geographic Information Science and Technology Graduate Programs, University of Southern California (February)
- 2012 **Wilson J P**, Goodchild M F, Goldberg D W, Wittner E, and Kemp K K, *Creating Enduring Spatial Skills that Lead to Job Opportunities* (Webinar). Directions Magazine (May)
- 2011 **Wilson J P**, *General Information Session: GIST Programs* (Webinar). Geographic Information Science and Technology Graduate Programs, University of Southern California (May)
- 2010 **Wilson J P**, *General Information Session: GIST Programs* (Webinar). Geographic Information Science and Technology Graduate Programs, University of Southern California (November)
- 2010 **Wilson J P**, *Mapping on Catalina Island, California* (Video). Geographic Information Science and Technology Graduate Programs, University of Southern California (September)

Invited Lectures and Seminars

- 2014 *The Science of Where: Maps, Models and Storytelling*, Parkside Arts and Humanities Residential College, University of Southern California (November)
- 2014 *Full-time Dornsife NTT Teaching Faculty: A Program to Mentor and Answer Your Questions* (Panel Presentation and Discussion), Dana and David Dornsife College of Letters, Arts and Sciences, University of Southern California (September)
- 2014 *GIS, Spatial Analysis and Religion*, School of Religion, University of Southern California (January)
- 2013 *Mapping and Classifying Biophysical Landscape Attributes*, Biodiversity and Environment Research Collaboration Group, University of Southern California (September)
- 2013 *UCGIS Geographic Information Science & Technology Body of Knowledge 2.0 Project* (Short Presentation, Question & Answer Session), Esri GIS Education Community Advisory Board, Esri International User Conference/Education User Conference, San Diego, California (June)
- 2013 *Geospatial Workforce Development* (Panel Presentation and Discussion), Center for Business GIS and Spatial Analysis, University of Redlands (May)
- 2013 *Advice and Ascent: A Program to Mentor NTT Teaching Faculty* (Panel Presentation and Discussion), Dana and David Dornsife College of Letters, Arts and Sciences, University of Southern California (May)
- 2013 *The Geospatial Revolution*, School of Surveying, University of Otago, New Zealand (March)
- 2013 *GIS and Spatial Analysis*, Department of Geography, University of Canterbury, New Zealand (February)
- 2013 *GIS, Spatial Analysis, and Religion*, School of Religion, University of Southern California (January)
- 2012 *Place-Based Models of Instruction: Introduction to GIS @ USC and the Spatial Sciences Institute*, Faculty Forum, Center for Scholarly Technology, University of Southern California (November)
- 2012 *GIS and Location Analytics*, Marshall School of Business, University of Southern California (November)
- 2012 *Spatial 2.0: Spatial Literacy, Analysis, Modeling, and Visualization*, School of Architecture, University of Southern California (September)
- 2012 *GIS and Environmental Applications*, Centre for GeoInformatics, School of Geography and Geosciences, University of St. Andrews, Scotland (June)
- 2012 *How Can We Reshape GIS Education to Serve Future Needs?*, Center for Spatial Studies, University of California, Santa Barbara (June)
- 2011 *GeoDesign: Coupling GIS with Design Thinking to Identify and Evaluate Alternative Futures*, Laboratory for Information Engineering in Surveying, Mapping and Remote Sensing, Wuhan University, China (December)
- 2011 *The Spatial Sciences: Connecting Society, Environment, and Health*. Department of Geography, University of Wisconsin, Milwaukee (November)
- 2011 *The Spatial Sciences and Their Role in Environmental Studies*, Wrigley Institute of Environmental Studies Advisory Board Meeting (September)
- 2011 *GeoDesign: Designing Our Future in an Anthropogenic World*, Institute of Geographical Sciences and Natural Resources Research, Chinese Academy of Sciences, Beijing, China (July)
- 2010 *The Role of the Spatial Sciences in the Modern Research University*, Department of Sociology, University of Southern California (December)

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

- 1998 *Evaluating GIS-based Simulations of Precipitation: Methods, Problems and Performance*, Department of Geography, University of Waikato (August)
- 1998 *Dynamic Modeling, Geostatistics, and Fuzzy Classification: New Sneakers for a New Geography?*, Department of Geography, University of Auckland (August)
- 1998 *Comparisons of Spatially Distributed Precipitation Models*, Department of Physical Geography, University of Utrecht (July)
- 1997 *Simulating Water Quality Problems with GIS-based Land Surface/Subsurface Models*, Department of Geography, University of California, Santa Barbara (October)
- 1996 *Development and Testing of Terrain-based Methods for Environmental Characterization and Modeling*, Department of Geography, Michigan State University (March)
- 1995 *Terrain-based Methods for Conducting Environmental Resource Surveys*, Department of Geography, University of Southern California (November)
- 1995 *Terrain-based Approaches to Environmental Resource Evaluation*, Greater Yellowstone Coordinating Committee, U.S. Department of Agriculture-Forest Service and U.S. Department of Interior-National Park Service (June)
- 1995 *ArcView GIS Overview and Demonstration*, Bozeman City-County Planning Board (April)
- 1995 *The Power of Geographic Information Systems*, Office of Extended Studies, Montana State University (seminar for technical professionals delivered via METNet 2-way interactive video network to studio audiences in eight Montana cities) (January)
- 1994 *Building a Multidisciplinary GIS Research Center*, Department of Geography, University of Auckland (November)
- 1994 *Geographic Information Technologies in the Great American Outback*, Department of Geography, University of Auckland (November)
- 1994 *Natural Resource Management Applications of GIS*, Department of Animal and Range Sciences, Montana State University (September)
- 1994 *The Expanding Role of GIS in Undergraduate Education at Montana State University*, Department of Geography, University of Lethbridge (June)
- 1994 *Computer Simulation in the Earth Sciences*, Science and Technology Core Committee Computer Exposition, Montana State University (June)
- 1994 *Development of a New Montana Precipitation Map Using the ANUSPLIN Model*, Montana Natural Resource Information System, Montana State Library (January)
- 1993 *GIS Research in Support of Grasshopper and Locust Management*, U.S. Agency for International Development Site Visit, Montana State University (April)
- 1992 *Geography, Geographic Information Systems, and Agriculture in the Great American Outback*, U.S. Department of Agriculture-Agricultural Research Service Fort Keough Experiment Station (October)
- 1992 *Coupling Geographic Information Systems and Models for Groundwater Pollution Assessments*, Department of Plant and Soil Science, Montana State University (February)
- 1991 *Computerized Methods of Terrain Analysis*, Center for High-Elevation Studies, Montana State University (January)
- 1990 *Terrain-based Models for the Distributed Erosional Modeling of Landscapes*, Department of Geography, University of Auckland (April)

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

GRANTS AND CONTRACTS

- 2014-2017 *Religious Competition and Creative Innovation: Los Angeles and Seoul, South Korea*
John Templeton Foundation; Co-I; R Flory and B Loskota, Center for Religion and Civic Culture, University of Southern California, PIs; \$2,500,000 (\$105,000, Wilson)
- 2014-2015 *Visualizing a University Campus in Esri's CityEngine™*
University of Southern California Undergraduate Research Associates Program; PI; \$3,000
- 2013-2018 *Adolescent Smoking: Vulnerability to Tobacco Use and Marketing across Life (P3 – Vulnerable Populations)*
National Cancer Institute; Co-I, R McConnell, Department of Preventive Medicine, University of Southern California, PI; funded as part of the "USC Tobacco Center of Regulatory Science (TCORS) for Vulnerable Populations" grant awarded to J Samet, Department of Preventive Medicine, University of Southern California; \$19,999,608 (\$34,858; Wilson)
- 2013-2018 *Maternal Stress and Children's Obesity Risk*
National Heart, Blood, and Lung Institute, National Institutes of Health; Co-I, G F Dunton, Department of Preventive Medicine, University of Southern California, PI; \$4,117,478 (\$36,800, Wilson)
- 2013-2014 *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 *Building Photorealistic 3-D Models of the University Park Campus Buildings and Landmarks*
Facilities Management Services, University of Southern California; Co-PI with R Kornak, Spatial Sciences Institute, University of Southern California; \$75,000
- 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

- 2011-2015 *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 and S Brandt, Department of Resource Economics, University of Massachusetts-Amherst, PIs; \$250,000 (\$25,520, Wilson)
- 2012-2013 *Mapping Support for a Business Creativity and Innovation Project*
Gould School of Law, University of Southern California; PI; \$12,000
- 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 Longcore and J N Swift, Spatial Sciences Institute, University of Southern California; \$100,000
- 2010-2011 *Building Multidisciplinary Spatial Science Learning Pathways*
University of Southern California Fund for Innovative Undergraduate Teaching; PI; \$7,750
- 2009-2011 *New Approaches to Estimating the Cost and Burden of Traffic-related Air Pollution in Children*
South Coast Air Quality Management District; Co-I, R McConnell, Department of Preventive Medicine, University of Southern California and S Brandt, Department of Resource Economics, University of Massachusetts-Amherst, PIs; \$350,000 (\$30,000, Wilson)
- 2009-2010 *Mapping Support for Las Virgenes-Malibu Council of Governments Multi-Jurisdictional Hazard Mitigation Plan*
MLC & Associates, Inc., Costa Mesa, California; PI; \$6,500
- 2009-2010 *Provision of Batch and Manual Geocoding Services*
California Cancer Registry; PI; \$20,000
- 2009-2010 *Impact of Vehicle Pollution on Children's Development in Los Angeles County*
University of Southern California Undergraduate Research Program; Co-PI with J N Swift, Department of Geography, University of Southern California; \$6,000
- 2009-2010 *A Center for Regional Decadal Climate Predictions (CRDCP)*
James H Zumberge Faculty Research and Innovation Fund; Co-PI with L Stott, Department of Earth Sciences, University of Southern California; \$50,000
- 2009-2010 *Mapping Support for Riverside Urban Area Security Risk/Gap Analysis Project*
MLC & Associates, Inc., Costa Mesa, California; PI; \$36,000

- 2009 *USC WebGIS Open Source Geocoder Platform Extension*
National Cancer Institute, Co-PI with M G Cockburn, Department of Preventive Medicine, University of Southern California; \$93,500
- 2008-2009 *Impact of Vehicle Pollution on Children's Health in Southern California: Methods Development for a Spatially-based Assessment of Burden of Disease and Economic and Policy Consequences*
James H Zumberge Faculty Research and Innovation Fund; Co-PI with R S McConnell, W J Gauderman, Department of Preventive Medicine, and J Wolch, Department of Geography, University of Southern California; \$50,000
- 2008-2009 *Development and Testing of Geocoding Services for the Division of Cancer Prevention and Control*
Northrop Grumman and Centers for Disease Control and Prevention; Co-PI with J N Swift, Department of Civil and Environmental Engineering, University of Southern California; \$90,000
- 2007-2010 *Shortest Network Paths: New Algorithms and Applications*
North American Association of Central Cancer Registries and Susan G Komen Breast Cancer Foundation; PI; \$132,072
- 2007-2008 *Upper Los Angeles River Recommendations and Implementation Blueprint*
Mountains Restoration Trust; PI; \$40,000
- 2007-2008 *Development of a Web-Based Hydrologic Information System*
University of Southern California Undergraduate Research Program; Co-PI with J N Swift, Department of Civil and Environmental Engineering, University of Southern California; \$6,000
- 2006 *Upper Los Angeles River: Recharge Suitability Analysis*
Mountains Restoration Trust; PI; \$80,000
- 2005-2011 *Influence of Built Environments on the Development of Obesity during Childhood*
National Cancer Institute; Co-I with M Jerrett, K T Berhane, F D Gilliland, R S McConnell, Department of Preventive Medicine, K Reynolds, Institute for Prevention Research, and J Wolch, Department of Geography, University of Southern California; funded as part of the "USC Center for Trans-disciplinary Research on Energetics and Cancer (C-TREC)" grant awarded to M Goran, Institute for Prevention Research, Keck School of Medicine, University of Southern California; \$1,010,215 (\$70,000; Wilson)
- 2005-2006 *GIS-Based Analysis and Visualization of Hydrological and Ecological Patterns and Processes*
San Gabriel and Lower Los Angeles Rivers and Mountains Conservancy; PI; \$9,998 (two awards)
- 2005-2006 *Development of a White Paper on GIS Modeling Opportunities for Regional Sediment Management in Ventura and San Diego Counties, California*
Everest International Consultants, Long Beach, California and U.S. Army Corps of Engineers, Los Angeles District Office; PI; \$9,227
- 2005 *Characterizing Parkland and Recreational Open Space in the Los Angeles Metropolitan Region*
University of Southern California Undergraduate Research Program; Co-PI with J Wolch and T 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, and S L Cutter, Department of Geography, University of South Carolina; \$700,000 (\$300,000; University of Southern California)

- 2004-2007 *Student Interns: GIS Mapping and Planning Support*
Southern California Association of Governments; PI; \$80,000 (multiple awards)
- 2004-2006 *An Integrated Watershed Management Plan for the Upper Los Angeles River*
Mountains and Watershed Conservation Authority; Co-PI with J Wolch, Department of Geography, University of Southern California; \$250,000
- 2004-2006 *An Investigation of the Scale Effects of DEM-based Fuzzy k-means Landform Classifications*
National Science Foundation, Geography and Regional Science Doctoral Dissertation Research Program; Co-PI with Y X Deng, Department of Geography, University of Southern California; \$11,240
- 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 at Okanagan; \$12,000
- 2004-2005 *GIS Boat Traffic and Levee Erosion Data Integration*
California Department of Boating and Waterways; PI; Subcontract funded as part of "Sacramento-San Joaquin Delta Studies: Field Program to Measure Levee Erosion" grant awarded to B O Bauer, Department of Earth Science, University of British Columbia at Okanagan; \$55,549
- 2004-2005 *Competing Definitions of Activity Spaces and Neighborhoods*
University of Southern California, Keck School of Medicine, Children's Health Study; Co-PI with R McConnell, Department of Preventive Medicine, University of Southern California; \$25,000
- 2004-2005 *Building the International Metropolitan Observatory Project*
University of Southern California Urban Initiative; Co-PI with J.Sellers, Department of Political Science, University of Southern California; \$10,000
- 2003-2009 *Framework for Integrating Geospatial and Online Data to Respond to Unexpected Events*
National Science Foundation, Information Technology Research Program; Co-PI with C A Knoblock and 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 Longcore and J Wolch, Department of Geography and J Devinnny, Department of Civil and Environmental Engineering, University of Southern California; \$816,500 (multiple awards)
- 2003-2004 *Analysis of Butterfly Survey Data from San Bruno Mountain Habitat Conservation Plan (1982-1997)*
Thomas Reid Associates, Palo Alto, California; Co-PI with T Longcore, Department of Geography, University of Southern California; \$11,200
- 2003-2004 *Evaluating Dredging and Material Placement Options for Ventura Harbor, California*
Everest International Consultants, Long Beach, California and U.S. Army Corps of Engineers, Los Angeles District Office; PI; \$50,000
- 2003 *California Regional Sediment Master Plan: GIS System Architecture and Database Design*
Parsons, Brinckerhoff, Quade and Douglas and U.S. Army Corps of Engineers, Los Angeles District Office; PI; \$74,341

- 2002-2003 *Estimating the Spatial Distribution of Vegetation Cover in the Los Angeles Metropolitan Region*
University of Southern California, Lusk Center for Real Estate; PI; \$7,500
- 2002-2003 *Development of a Series of Maps of the Los Angeles Metropolitan Region for Growth Visioning Workshops*
Urban Land Institute-Los Angeles and USC Lusk Center for Real Estate; PI; \$24,500
- 2001-2006 *Development of Gazetteer Services and Databases for the Los Angeles Digital Archive*
University of Southern California, Information Services Division; PI; \$160,000 (multiple awards)
- 2001-2003 *Development of Geographic Search and Query Tools for the USC Digital Archive*
University of Southern California, Information Services Division; PI; \$33,000
- 2001-2002 *Development of New Methods to Characterize the Sun Exposure and Constitutional Risk Factors Associated with Malignant Melanomas*
James H Zumberge Interdisciplinary Research Fund; Co-PI with T M Mack and 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 S McConnell, Department of Preventive Medicine, University of Southern California; \$27,630
- 2000-2002 *Toward a Sustainable Los Angeles: A "Nature's Services" Approach*
John Randolph and Dora Haynes Foundation; Co-PI with S S Pincetl and J Wolch, Department of Geography, University of Southern California; \$379,998
- 1999-2003 *Preparation of Images and Metadata for 1939 Works and Progress Administration Household Survey Census Cards*
University of Southern California, Information Services Division; PI; \$77,400 (multiple awards)
- 1999-2001 *Modeling Spatial Patterns of Population Growth and Habitat Change*
James H. Zumberge Faculty Research and Innovation Fund; PI; \$24,987
- 1998-2005 *Modeling the Spatial Pattern and Magnitude of Recreational Boat Traffic in the Sacramento-San Joaquin Delta*
California Department of Boating and Waterways; PI; \$321,580 (multiple awards)
- 1998-2001 *Student Interns: GIS Mapping Support*
Southern California Association of Governments; PI; \$124,890 (multiple awards)
- 1998-2000 *Modeling the Impact of Different Land Use Policies on Urban Expansion in Southern California, 1986-2010*
James H. Irvine Foundation; PI; Subcontract funded as part of "Creative Communities and Urban Futures Project" grant awarded to M J Dear, Department of Geography, University of Southern California; \$96,083
- 1998-1999 *Integrating Geographic Databases and Atmospheric Chemical Dispersion Models"*
U.S. Department of Defense, Defense Advanced Research Projects Agency, Information Technology Office; PI; Subcontract funded as a part of "GeoWorlds Project" grant awarded to R T Neches, Information Sciences Institute, University of Southern California; \$75,000

- 1997-2001 *Development and Evaluation of a Series of Student-centered, WWW-based GIS Teaching Units and Laboratory Exercises*
U.S. Department of Education, Fund for the Improvement of Secondary and Higher Education; Co-PI with R J Aspinall, Geographic Information and Analysis Center, Montana State University, Bozeman, Montana and R J Eastman, Graduate School of Geography, Clark University, Worcester, Massachusetts; \$175,000
- 1997-1999 *Development of GIS Data Layers for the Integrated Digital Archive-Information System Los Angeles Project*
University of Southern California, Information Services Division; PI; \$105,000
- 1997-1998 *Advancing Environmental GIS*
Hewlett Foundation; PI; \$5,000
- 1997-1998 *Preparation of Historical Census and Electoral Geography Data Layers for Los Angeles County*
John Randolph and Dora Haynes Foundation; PI; Subcontract funded as part of "Race-Ethnicity, and Political Fragmentation in Los Angeles County, 1940-96" grant awarded to P J Ethington, Department of History, University of Southern California; \$30,000
- 1997 *Preparation of Selected Land Use and Employment Data Layers for South Bay Economic Region*
Los Angeles Community Development Commission; PI; Subcontract funded as part of "South Bay Economic Adjustment Plan Project" grant awarded to D Flaming and M Drayse, Economic Roundtable, Los Angeles, California; \$21,000
- 1996-1999 *Cartographic Database and Modeling Support for the Southern California Atlas Project (Volumes 1-3)*
University of Southern California, Southern California Studies Center; PI; \$135,000 (multiple awards)
- 1995-1998 *Distributed Modeling and Classification of Landscapes in the Greater Yellowstone Area*
National Science Foundation EPSCoR Program; PI; Subcontract funded as part of "Determinants of Biodiversity, Social, and Economic Patterns in Montane Ecosystems" grant awarded to J D Stanford, Yellow Bay Biological Station, University of Montana and A D Barnosky, Mountain Research Center, Montana State University; \$130,000
- 1995-1996 *Formation of the Montana Local Government GIS Coalition*
U.S. Geological Survey National Spatial Data Infrastructure Program; PI; \$24,780
- 1995-1996 *Preparation of Arc Macro Language Scripts for Generating and Checking Public Land Survey System and Land Ownership Data Layers*
U.S. Department of Interior, Bureau of Indian Affairs; PI; \$8,500
- 1995-1996 *Preparation of GPS Road Survey and Selected GIS Data Layers for City of Bozeman and Gallatin County, Montana*
Gallatin County and Bozeman City-County Planning Board; PI; \$36,500
- 1995-1996 *Preparation of DEM and Climate Data Layers for the Greater Yellowstone Area*
U.S. Department of Agriculture, U.S. Department of Interior, and Greater Yellowstone Coordinating Committee; PI; \$30,000
- 1994-1998 *Use of Terrain Analysis to Quantify Landscape Patterns in the Greater Yellowstone Area*
NASA EPSCoR Program; PI; Subcontract funded as part of "Land Use and Wildfire Effects on Landscape Patterns and Avian Diversity: A Comparison of the Greater Yellowstone Ecosystem and the Pacific Northwest" grant awarded to A J Hansen, Department of Biology, Montana State University; \$35,000

- 1994-1997 *Evaluation of Opportunities for Forecasting Senegalese Grasshopper Infestations*
U.S. Agency for International Development; Co-PI with W P Kemp, U.S. Department of Agriculture-Rangeland Insect Laboratory, Bozeman, Montana and G B Popov, London, England; \$77,500
- 1994-1996 *Preparation of Digital Fisheries and Wildlife Databases and Maps*
Montana Department of Fish, Wildlife and Parks; PI; \$35,000
- 1994-1995 *Development of Terrain Analysis Programs for the Environmental Sciences*
M J Murdock Charitable Trust; PI; \$49,250
- 1994-1995 *Preparation of Digital Land Resource Data Layers for the City of Bozeman Critical Lands Project*
City of Bozeman Planning Office; PI; \$9,995
- 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 Inskeep 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
- 1992-1994 *Is Drought Following the Plow in Less Developed Countries?*
U.S. Agency for International Development, Program for Science and Technology Cooperation; Co-PI with W D Swearingen, Entomology Research Laboratory, Montana State University and A Bencherifa, Université Mohammed V, Rabat, Morocco; \$148,672
- 1992-1994 *Testing the Drought Follows the Plow Hypothesis in Morocco*
National Science Foundation, Human Dimensions of Global Change Program; Co-PI with W D Swearingen, Entomology Research Laboratory, Montana State University and A Bencherifa, Université Mohammed V, Rabat, Morocco; \$88,500
- 1992-1994 *Application of GIS and Geostatistical Modeling Techniques to Support the Sustained Control of Locusts and Grasshoppers in Africa*
U.S. Agency for International Development; Co-PI with W.P. Kemp, U.S. Department of Agriculture-Rangeland Insect Laboratory, Bozeman, Montana; \$16,500
- 1992-1994 *Development of Quantitative Landform Descriptions and Soil Models for Yellowstone National Park*
U.S. Department of Interior-National Park Service, Cooperative Park Studies Unit; Co-PI with H W Shovic, Yellowstone National Park, Mammoth, Wyoming; \$23,000
- 1992-1995 *Coupling GIS, Digital Terrain Analysis, and Hydrologic Models*
Montana Agricultural Experiment Station; PI; \$7,250

- 1991-1994 *Impact of Cropping Systems on Non-point Source Groundwater Pollution*
U.S. Department of Agriculture-Cooperative States Research Service; Co-PI with J M Antle, D Griffith, J B Johnson, Department of Agricultural Economics; J W Bauder 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 and G A Nielsen, Department of Plant and Soil Science, Montana State University; \$188,523
- 1991-1992 *Hydrologic Characterization of Proposed Downhill Ski Area and Resort*
Bridger Bowl Ski Area; Co-PI with J Whittingham, Department of Earth Sciences, Montana State University; \$4,200
- 1991-1992 *Development of Computerized Viewshed Analysis Techniques for the Big Sky Resort Area*
Ankeny Foundation; Co-PI with D L Wittren, Department of Earth Sciences, Montana State University; \$1,420
- 1990-1996 *Instructional Support for GIS*
Montana State University Computer Fee Allocation Committee; PI; \$74,720 (multiple awards)
- 1990-1994 *GIS Equipment Acquisition in Support of the Geographic Information and Analysis Center at Montana State University*
M J Murdock Charitable Trust; PI; \$240,000
- 1990-1994 *Classification of Remotely Sensed Imagery and Preparation of Natural Resource and Public Lands Survey System Data Layers and Maps for Selected Indian Reservations*
U.S. Department of Interior, Bureau of Indian Affairs; PI; \$42,686
- 1990-1992 *Validation of Solute Transport Models for Predicting Pesticide Movement into Groundwater*
Montana University System Water Resources Center; Co-PI with H Ferguson, W P Inskeep, R H Lockerman, and 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; and 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/Crop Productivity Interactions*
Montana State University Research/Creativity Program; PI; \$3,000
- 1989-1990 *Erosional Impact of Hikers, Horses, Off-Road Bicycles, and Motorcycles on Mountain Trails*
U.S. Department of Agriculture-Forest Service, Intermountain Research Station; Co-PI with J P Seney, Department of Earth Sciences, Montana State University; \$2,000
- 1988-1991 *GIS Equipment Acquisition to Support Undergraduate Instruction at Montana State University*
National Science Foundation, Instrumentation and Laboratory Improvement Program; PI; \$74,990
- 1988-1989 *Preparation of Lone Mountain Range Ski Trail Maps*
Lone Mountain Ranch; Co-PI with J D Starkey, Department of Computer Science, Montana State University; \$3,345
- 1987-1989 *Quantifying the Effects of Soil Erosion on Crop Production in the Northern Great Plains*
National Science Foundation, Geography and Regional Science Program; Co-PI with G A Nielsen, Department of Plant and Soil Science, Montana State University; \$70,748
- 1987 *Quantifying Soil Erosion, Sediment Storage, and Sediment Yield in the Pefferlaw Brook Watershed, Ontario, Canada*
Association of American Geographers; PI; \$250
- 1986-1987 *Computer Simulation Models for Earth Science Instruction*
Montana State University Technology Core Curriculum Committee; PI; \$3,736
- 1986-1987 *Streambank Erosion and Controls on the North Fork Flathead River*
Montana Bureau of Mines and Geology; Co-PI with J H Ruth, Department of Earth Sciences, Montana State University; \$6,565
- 1985 *Computer Simulation Models for Earth Science Instruction*
Montana State University Teaching/Learning Committee; PI; \$1,281

TEACHING

Program and Curriculum Development

University of Southern California

- 2014 Established **Graduate Certificate in Spatial Analytics**, based on three new graduate seminars in Spatial Computing, Spatial Analysis and Spatial Modeling.
- 2013 Established **Ph.D. in Population, Health, and Place**, drawing on seven new seminars created specifically for the degree (five in Spatial Sciences, two in Sociology) and a series of existing courses offered by the Department of Preventive Medicine, Keck School of Medicine, and the Department of Sociology, Dornsife College of Letters, Arts and Sciences
- 2014 Established a **GeoHealth track**, based on a series of existing online courses in the Geographic Information Science & Technology Programs, in the Keck School of Medicine's newly established Online Masters in Public Health Program.
- 2014 Prepared Self-Study Report with Susan Kamei for the U.S. Geospatial Intelligence Foundation that led to the accreditation of the University of Southern California's **Graduate Certificate in Geospatial Intelligence**.
- 2013 Established **Graduate Certificate in Geospatial Intelligence**, drawing on one new online course created specifically for this certificate program (SSCI 579-Geospatial Intelligence Tradecraft) and a series of six existing online courses that are part of the Geographic Information Science & Technology Graduate Programs.
- 2013 Established **Graduate Certificate in Geospatial Leadership**, drawing on one new blended course created specifically for this certificate program (SSCI 578-The Practice of Geospatial Leadership) and a series of 11 existing online courses that are part of the Geographic Information Science & Technology Graduate Programs.
- 2012 Established **B.S. in GeoDesign**, drawing on seven new undergraduate classes created specifically for this degree (four in Spatial Sciences, three in Architecture) and a series of existing courses offered by the School of Architecture, Department of Sociology, Price School of Public Policy and Spatial Sciences Institute, among others.
- 2012 Established **Minor in Spatial Studies**, drawing on three new undergraduate GIS classes and a series of existing classes offered by multiple schools and departments.
- 2009 Prepared Substantive Change Report for Western Association of Schools and Colleges Accrediting Commission for the Senior Colleges and Universities that led to the accreditation of the University of Southern California's **M.S. in Geographic Information Science & Technology**.
- 2008 Established **M.S. in Geographic Information Science & Technology (GIST)**, drawing on five online classes specifically created for this purpose and four online classes that were originally created as a part of the Graduate Certificate in Geographic Information Science.
- 2008 Established **Graduate Certificate in Geographic Information Science & Technology (GIST)**, drawing on the nine online classes used to support the GIST M.S. Program.
- 1999 Established **Graduate Certificate in Geographic Information Science**, drawing on four online classes created specifically for this purpose (the courses were retained but the certificate program itself was revised and renamed in 2009).
- 1998 Established **Minor in Geographic Information Science** and four new undergraduate classes specifically for this purpose.

Montana State University

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

Courses Taught

University of Southern California

ARCH 517: GeoDesign Practice

GEOG 260Lg: Natural Hazards

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

SSCI / GEOG 265Lg: The Water Planet

SSCI 578#: The Practice of Geospatial Leadership

SSCI 579#: Geospatial Intelligence Tradecraft

SSCI 585#: Geospatial Technology Project Management

SSCI 587#: GPS/GIS Field Techniques

SSCI 588#: Remote Sensing for GIS

PLDV 526: Urban Information Systems

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

Montana State University

ESCI 500: Research Design Seminar

ESCI 580: Images of Earth

GEOG 101N: Introduction to Physical Geography

GEOG 105S#: World Regional Geography

GEOG 202T#: Resource Geography

GEOG 305: Introduction to Geographic Information Systems

GEOG 330: Agricultural Geography

GEOG 400: Geography Colloquium

GEOG 402: Geographical Analysis

GEOG 407: Applied Geography

GEOG 411: Advanced Geographic Information Systems

GEOG 422: Environmental Hazards

GEOG 501: GIS and Environmental Modeling

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

University of Waikato

16.432: Human Ecology of Natural Hazards

University of Toronto
GGY 100: The Human Environment

Post-Doctoral Fellows and Visiting Scholars Directed

- 2012-2015 Dr. KyoHyouk Kim, Spatial Sciences Institute, University of Southern California, Los Angeles, California
- 2011-2012 Dr. Yumin Chen, Spatial Sciences Institute, University of Southern California, Los Angeles, California (Visiting Scholar, Center for Remote Sensing, Wuhan University, Wuhan, China)
- 2007-2008 Dr. Jingfen Sheng, Department of Geography, University of Southern California, Los Angeles, California
- 2006-2007 Dr. Zaria Tatalovich, Department of Geography, University of Southern California, Los Angeles, California
- 2004-2005 Dr. Rania Bou Kheir, Department of Geography, University of Southern California, Los Angeles, California (Visiting Fulbright Scholar; Research Scientist, National Center for Remote Sensing, Lebanese National Council for Scientific Research, Beirut, Lebanon)
- 1992-1993 Dr. Victor Wu, Department of Earth Sciences, Montana State University, Bozeman, Montana

Dissertations and Theses Directed

Bennett Gaumitz, M.S., Geographic Information Science and Technology, University of Southern California

Thesis Title: *A Practical Map for Use in Precision Agriculture*

Jenni Dorsey-Spitz, M.S., Geographic Information Science and Technology, University of Southern California

Thesis Title: *Spatio-temporal Pattern Analysis: Nitrate Contamination on Mountain Home Air Force Base, Idaho*

Robyn Gray, M.S., Geographic Information Science and Technology, University of Southern California

Thesis Title: *Evaluating Interpolation Methods to Create Subsurface Geology Raster Layers*

Charles Hanley, M.S., Geographic Information Science and Technology, University of Southern California

Thesis Title: *Using Object-based Extraction for Evaluating Persistent Vegetation Patterns in Very High Resolution Aerial Imagery to Discover Dormant or Relict Vernal Pools on the Historic Firing Ranges of Fort Ord, California*

Joanne Seo, M.S., Geographic Information Science and Technology, University of Southern California

Thesis Title: *TBD*

Colin Mattison, M.S., Geographic Information Science and Technology, University of Southern California

Thesis Title: *Does the Bay Area have an Urban Center?*

Christian Joyner, M.S., Geographic Information Science and Technology, University of Southern California

Thesis Title: *Simulating the Effects of Current Precipitation Trends on the Hydrological Network of Reservoirs in the Weber River Watershed*

- Annabel Lee Enriquez, M.S., Geographic Information Science and Technology, University of Southern California
Thesis Title: *A Collaborative Web-based Application for Documenting Historic Places in an Urban Context: The French Colonial Architecture in Hanoi*
- Kathy Andrade, M.S., Geographic Information Science and Technology, University of Southern California
Thesis Title: *Quantifying the Relationships between Urban Forests and Hispanic Populations in Los Angeles County*
- Eric Tsay, M.S., Geographic Information Science and Technology, University of Southern California
Thesis Title: *Quantifying Affordable Housing Dynamics in Los Angeles County*
- Kaveh Shahabi, Ph.D. Student, Computer Science, University of Southern California
Dissertation Title: *Scalable Evacuation Routing in Dynamic Urban Environments*
- Julienne Gard, Ph.D. Candidate, Geography, University of Southern California
Dissertation Title: *Los Angeles Foodscapes: The Profile of Food Distribution and Character in a Large Metropolitan Area*
- Christine S Lam, Ph.D. Candidate, Geography, University of Southern California
Dissertation Title: *Assessing the Effects of Urbanization on the Regional Ecological Processes Operating in Large Metropolitan Regions*
- 2015 Chad Johnson, M.S., Geographic Information Science and Technology, University of Southern California
Thesis Title: *Site Location Suitability Analysis for a Smartgrid Network*
- 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 Hunter, Liggett, California*
- 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 Lisa Sedano, Ph.D., Geography, University of Southern California
Dissertation Title: *Consuming Landscape, Consuming Machine: State, Capital, and Outdoor Advertising in Los Angeles*
- 2014 Amanda Laur, M.S., Geographic Information Science and Technology, University of Southern California
Thesis Title: *Modeling the Spatio-Temporal 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 Nyugen, 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 Greenspace'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 Hydroclimatic 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 Mountain 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 Areas*
- 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

- 2007 Janet Louise Stein, Ph.D., Centre for Resource and 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 and Environmental Monitoring in Land Resource Management*
- 2005 Daryl Mummery, Ph.D., School of Geography and Environmental Studies, University of Tasmania
Dissertation Title: *The Application of Landscape, Productivity, and Environmental Modeling to Improve Plantation Site Selection and Yield Prediction*

Short Courses and Workshops Taught

- 2008 *Introduction to GIS and Spatial Analysis*
Two-week short course offered as part of the Annenberg Summer Institute in Methods and Statistics, Annenberg School of Communications and Journalism, University of Southern California, Los Angeles, California
- 2006 *Modeling and Spatial Simulation: Definitions, Calibrations, Visualizations, and Applications*
Five-day short course offered with M Batty as part of Fourth Annual Summer School on Geographic Information Science, Vespucci Initiative for the Advancement of Geographic Information Science; Florence, Italy
- 2002-2005 *Terrain Analysis: Principles and Applications*
Full-day workshop offered four times at Annual International ESRI User Conference, San Diego, California
- 2001 *Terrain Analysis: Principles and Applications*
Half-day workshop offered at Annual International ESRI User Conference, San Diego, California
- 1996-2003 *Introduction to ArcView GIS*
Two-day workshop offered seventeen times at University of Southern California, Los Angeles, California

- 1996 *Terrain Analysis Methods for Environmental Characterization and Modeling*
One-day workshop offered with J C Gallant and colleagues at Third International Conference Integrating GIS and Environmental Modeling, Santa Fe, New Mexico
- 1996 *Introduction to Arc/Info*
Five-day workshop offered at Montana State University, Bozeman, Montana
- 1996 *Introduction to ArcView GIS*
Two-day workshop offered at Fort Lewis College, Durango, Colorado
- 1995 *Reinventing Local Government with GIS*
One-day workshop offered with J Magnant and colleagues at Seventh Annual Montana GIS Conference, Helena, Montana
- 1995 *Introduction to ArcView GIS*
Two-day workshop offered at Equitable Resources Inc., Billings, Montana
- 1994-1997 *Introduction to ArcView GIS*
Two-day workshop offered five times at Montana State University, Bozeman, Montana
- 1994-1995 *Introduction to ArcCAD*
Three-day workshop offered three times at Montana State University, Bozeman, Montana
- 1994 *Local Government GIS Applications*
One-day workshop offered with J Magnant and colleagues at Sixth Annual Montana GIS Conference, Kalispell, Montana
- 1994 *Introduction to ArcCAD*
Three-day workshop offered at City of Pocatello, Idaho
- 1994 *Introduction to ArcCAD*
Three-day workshop offered at Power Engineers, Boise, Idaho
- 1993-1995 *Introduction to PC Arc/Info*
Five-day workshop offered four times at Montana State University, Bozeman, Montana
- 1993 *Geographic Information Systems for Weed Control and Groundwater Protection*
Half-day workshop offered with D Cooksey and W P Inskeep at Annual Meeting of Montana County Weed Supervisors, Bozeman, Montana
- 1992-1995 *Precision Farming Applications of GIS*
Two-hour workshop offered four times with D Griffith as part of Montana State University Crop and Pest Management School, Bozeman, Montana
- 1992 *Precision Farming Applications of GIS*
Two-hour workshop offered with L W Carstensen and C M Ryan as part of Montana State University Crop and Pest Management School, Bozeman, Montana
- 1992 *Terrain Analysis and Geographic Information Systems*
Half-day workshop offered with M Blongewicz, J K Jersey, and D L Wittren at Fifth Annual Montana GIS Conference, Butte, Montana
- 1992 *Remote Sensing and Geographic Information Systems*
Half-day workshop offered with C Benkelman, R Behrendt, and J K Jersey at Fifth Annual Montana GIS Conference, Butte, Montana

- 1991-1995 *Introduction to PC Arc/Info*
Three-day workshop offered seven times at Montana State University, Bozeman, Montana
- 1991 *Teaching GIS*
Half-day workshop offered with K K Kemp, G L Benwell, J Strobl, and N Waters at GIS/LIS '91 in Atlanta, Georgia
- 1990 *Geographic Information Systems and Applications*
Two-day workshop offered with D J Unwin and colleagues at University of Waikato, Hamilton, New Zealand
- 1990 *Introduction to GIS*
Half-day workshop offered with D J Unwin at Waikato Regional Council, Hamilton, New Zealand
- 1990 *Introduction to GIS*
One-day workshop offered at Montana State University, Bozeman, Montana in conjunction with Western Planning Association Conference

PROFESSIONAL SERVICE

International

- 2014-2015 Member, Scientific Program Committee, Fifth International Geomorphometry Symposium, Poznan, Poland
- 2014-2015 Member, Scientific Program Committee, GIS Ostrava: Surface Models for Geosciences Conference, Ostrava, Czech Republic
- 2014-2015 Member, Scientific Advisory Committee, Thirteenth International Conference on Geo-Computation, Dallas-Fort Worth, Texas
- 2014 Member, Scientific Program Committee, Second International Conference on CyberGIS and Geodesign, Redlands, California
- 2014 Member, International Program Committee, IASTED International Conference on Environmental Management and Engineering, Banff, 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, Eighth International Conference on Geographic Information Science (GIScience 2014), Vienna, Austria
- 2012-2013 Member, Scientific Program Committee, Fourth International Geomorphometry Symposium, Nanjing, China
- 2012-2013 Co-organizer and Chair, Vespucci Workshop on Population, Health and Place, Boone Center for Environmental Leadership, Catalina Island, California
- 2012-2013 Member, Scientific Program Committee, Twelfth International Conference on Geo-Computation, Wuhan, China
- 2011- Member, Editorial Board, *Journal of Geospatial Information Science* (Wuhan University/Taylor and Francis)
- 2011-2012 Member, Program Committee, Seventh International Conference on Geographic Information Science (GIScience 2012), Columbus, Ohio
- 2011-2012 Member, Steering Committee, Surface Models for the Geosciences, Ostrava- Poruba, Czech Republic
- 2010-2011 Co-Organizer and Chair, Third International Geomorphometry Symposium, Redlands, California
- 2010-2011 Member, Steering Committee, Nineteenth International Conference on Geoinformatics, Shanghai, China

- 2009- Member, Advisory Board, International Collaborative Center for Geo-computation Studies (ICCGS), Wuhan University, Wuhan, China
- 2009-2010 Member, New Zealand Master's GIS Programme Advisory Board
- 2009-2010 Member, Steering Committee, Eighteenth International Conference on Geoinformatics, Beijing, China
- 2009-2010 Member, Program Committee, IASTED International Conference on Water Resources Management, Garbone, Botswana
- 2008-2009 Member, Scientific Committee, Second International Geomorphometry Conference, Zurich, Switzerland
- 2007-2008 Member, Program Committee, IASTED Environmentally Sound Technology in Water Resource Management Conference, Garbone, Botswana
- 2006-2010 Member, Board of Trustees, Centre for Geographic Information Systems, University of Benin, Benin City, Nigeria
- 2006-2007 Chair, IASTED International Conference on Water Resources Management, Honolulu, Hawaii
- 2006-2007 Chair, IASTED International Conference on Environmental Modeling and Simulation, Honolulu, Hawaii
- 2006 Organizer and Chair, UNIGIS International Network Annual Business Meeting, Los Angeles, California
- 2005-2006 Member, Program Committee, IASTED Environmental Modeling and Simulation Conference, St. Thomas, U.S. Virgin Islands
- 2005-2006 Member, Program Committee, International Symposium on Digital Terrain Analysis and Terrain Modeling, Nanjing, China
- 2005-2006 Member, Program Committee, IASTED Environmentally Sound Technology in Water Resource Management Conference, Garbone, Botswana
- 2004 Member, Program Committee, IASTED 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, Third International Conference Integrating GIS and Environmental Modeling, Santa Fe, New Mexico
- 1995-1996 Member, Program Committee, Third 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), *International Journal of Geographic Information Systems*
- 1992-2001 Member, Editorial Board, *Applied Geography*, Butterworth-Heinemann

National

- 2014 Member, Program Committee, GeoPrivacy: The First Workshop on Privacy in Geographic Information Collection and Analysis, Twenty-second Annual ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems, Dallas, Texas
- 2013- Member, WorldMap Advisory Committee, Center for Geographic Analysis, Harvard University
- 2013- Chair, Geographic Information Science & Technology Body of Knowledge (Version 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, featured speaker)

- 2013-2014 Member, GIScience, GIS, and Public Policy Organizing Committee, Annual Meeting of the Association of American Geographers, Tampa Bay, Florida
- 2013-2014 Co-Organizer (with Sarah Battersby, University of South Carolina), 2014 University Consortium for Geographic Information Science Symposium, Pasadena, California
- 2013-2014 Member, Editorial Board, *Association of American Geographers Review of Books*
- 2013 Member, Nominations Committee, University Consortium for Geographic Information Science
- 2012- Member, Accreditation Task Force, University Consortium for Geographic Information Science
- 2012-2013 Organizer, Transactions in GIS Plenary, Annual Meeting of the Association of American Geographers, Los Angeles, California (Daniel Sui, Ohio State University, featured speaker)
- 2012-2014 Member, Geography and Spatial Sciences Senior Review Panel, National Science Foundation
- 2012-2013 Member, Local Organizing Committee, Annual Meeting of the Association of American Geographers, Los Angeles, California
- 2011-2012 Member, Accreditation Task Force, University Consortium for Geographic Information Science
- 2011-2012 Organizer, Transactions in GIS Plenary, Annual Meeting of the Association of American Geographers, New York, New York (Kathleen Stewart, University of Iowa, featured speaker)
- 2011 Ad-Hoc Member, Population Sciences and Epidemiology Integrated Review Group, Social Sciences and Population Studies Study Section
- 2010-2011 Member, Nominations Committee, University Consortium for Geographic Information Science
- 2007-2010 Treasurer, University Consortium for Geographic Information Science
- 2007-2008 Chair, Nominations Committee, University Consortium for Geographic Information Science
- 2007-2008 Past-President, University Consortium for Geographic Information Science
- 2006-2009 Member, External Advisory Board, Decision Center for a Desert City (DCDC), Arizona State University, Tempe, Arizona
- 2006-2009 Member, Editorial Board, *Annals of the Association of American Geographers*
- 2006-2007 Member, Committee on Research Priorities for the United States Geological Survey Center of Excellence for Geospatial Information Science, Mapping Science Committee, Board on Earth Sciences and Resources, National Research Council
- 2006-2007 President, University Consortium for Geographic Information Science
- 2006 Member, Education Award Subcommittee, University Consortium for Geographic Information Science
- 2006 Organizer, Green Visions Plan for 21st Century Southern California Sessions, Annual Meeting of the Association of American Geographers, Chicago, Illinois
- 2005-2006 President-Elect, University Consortium of Geographic Information Science
- 2004 Member, Executive Director Search Committee, University Consortium of Geographic Information Science
- 2003-2005 Member, Research Projects Committee, University Consortium for Geographic Information Science
- 2003 Organizer, University Consortium for Geographic Information Science Summer Assembly, Asilomar, California
- 2002-2005 Member, Board of Directors, University Consortium for Geographic Information Science
- 2002-2005 Chair, Research Committee, University Consortium for Geographic Information Science
- 1999-2000 Member, Instrumentation Program Panel, Division of Behavioral and Cognitive Sciences, National Science Foundation
- 1998 Judge, Student Poster Competition Sponsored by the Cartography, Geographic Information Systems and Remote Sensing Specialty Groups, Annual Meeting of the Association of American Geographers, Boston, Massachusetts
- 1996-1998 Member, Geographic Information Science Core Curriculum Editorial Committee, National Center for Geographic Information and Analysis, University of California at Santa Barbara
- 1996-1998 Secretary/Treasurer, Geographic Information Systems Specialty Group, Association of American Geographers

- 1995-1997 Member, Doctoral Dissertation Awards Panel, Geography and Regional Science Program, National Science Foundation
- 1993 Member, U.S. Department of Agriculture-Cooperative States Research Service Facility Review Team, College of Agriculture, New Mexico State University, Las Cruces, New Mexico
- 1990 Organizer, "Young Scholars in Applied Geography" Session, Annual Meeting of the Association of American Geographers, Toronto, Ontario
- 1989-1991 Member, Soil Resources Variability Workgroup, Workshop on Research and Development Issues in Soil Specific Crop Management, U.S. Department of Agriculture-Agricultural Research Service, Cooperative States Research Service and Soil Conservation Service, and the College of Agriculture, University of Minnesota, Bloomington, Minnesota
- 1989-1991 Chair, Applied Geography Specialty Group, Association of American Geographers
- 1990 Co-Organizer, Precision Farming in the 90's Workshop, Power, Montana
- 1989 Co-Organizer, Greater Yellowstone Ecosystem Modeling Workshop, Montana State University, Bozeman, Montana
- 1988-1990 Member, Phoenix Research Career Seminar, Association of American Geographers
- 1988-1989 Editor, Applied Geography Specialty Group Newsletter, Association of American Geographers
- 1986-1991 Chair, Nominations and Elections Committee, Applied Geography Specialty Group, Association of American Geographers
- 1986-1989 Member, Board of Directors, Applied Geography Specialty Group, Association of American Geographers
- 1985 Program Chair, Annual Meeting of the Great Plains/Rocky Mountain Division, Association of American Geographers, Bozeman, Montana

State / County

- 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

- 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
- 2010-2013 Member, Research Committee

2009-2010 Member, Learning Environments Task Force
 2009-2010 Chair, Spatial Sciences Faculty Advisory Committee
 2006-2007 Member, Social Science Data Librarian Search Committee
 2004- University Ambassador
 2003-2004 Member, VKC Applied Social Sciences Library Redesign Task Force
 2002-2004 Marshall, University of Southern California Commencement
 2002-2003 Chair, Joint Provost-Academic Senate Distance and Distributed Learning Committee
 2002-2003 Member, E-Mail Retention and Archiving Committee
 2002-2003 Member, Lusk Real Estate Center Research Committee
 2002 Member, Organizing Committee, GIS and Spatial Statistics in Environmental Epidemiology Workshop, Pasadena, California
 2000-2002 Member, Joint Provost-Academic Senate Distance Education and Distributed Learning Committee
 1998- Lead Delegate, University Consortium of Geographic Information Science
 1998-2005 Faculty Affiliate, Lusk Real Estate Center
 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

2014- Member, Environmental Studies Program Advisory Committee
 2014- Member, Wrigley Marine Science Center Research Advisory Committee
 2014- Member, Interdisciplinary Archaeology Program Advisory Committee
 2013- Member, Population Research Center Internal Advisory Committee
 2013- 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 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

- 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 Spatial Sciences Institute

- 2013 Chair, Assistant Professor (Research) Search Committee
- 2013 Chair, Project Manager Search Committee
- 2013 Chair, Associate Director Search Committee
- 2012 Chair, GIS Programmer I Search Committee
- 2012 Chair, Spatial Sciences Post-Doctoral Fellow Search Committee
- 2012 Chair, GIS Project Specialist Search Committee
- 2010-2012 Chair, GIS&T Faculty Search Committee
- 2010-2011 Member, Secretary II Search Committee

USC Keck School of Medicine

USC Department of Preventive Medicine

- 2014 Member, Environmental Health Community Outreach and Engagement Faculty Search Committee
- 2011- Member, Southern California Environmental Health Sciences Center Executive 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/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/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

American Entomologist
Annals of Epidemiology
Annals of the Association of American Geographers
Applied Geography
Building and Environment
Canadian Journal of Soil Science
Catena
Computers and Geosciences

Computers, Environment, and Urban Systems
Earth Science Informatics
Ecohydrology
Environment and Planning A
Environmental Management
Environmental Modeling and Software
Environmental Monitoring and Assessment
Environmental Science and Technology
Geographical Analysis
Geography Compass
Hydrological Processes
Hydrology and Earth System Sciences
International Journal of Applied Earth Observation and Geoinformation
International Journal of Geographical Information Science
Journal of Environmental Management
Journal of Environmental Quality
Journal of Geographical Systems
Journal of Hydraulic Engineering
Journal of Hydrology
Journal of the American Water Resources Association
Journal of Soil and Water Conservation
Mountain Research and Development
Physical Geography
Photogrammetric Engineering and Remote Sensing
PLOS One
Soil Science Society of America Journal
Water Resources Bulletin
Water Resources Research

Academic Program Reviews

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

Blackwell Science
Elsevier Science/Academic Press
John Wiley and Sons
McGraw-Hill Publishing
Oxford University Press
Routledge
Sage Publications
Saunders College Publishing
Springer
Taylor and Francis

Promotion and Tenure Reviews

Arizona State University

Australian National University
Bowling Green State University
Florida State University
Hong Kong Baptist University
Hunter College, City University of New York
North Carolina State University
State University of New York at Buffalo
Temple University
Texas A&M International University
Texas A&M University, Corpus Christi
Texas State University
The Ohio State University
University of California, Berkeley
University of California, Santa Barbara
University of Canberra (Australia)
University of Colorado, Boulder
University of Connecticut
University of Idaho
University of Maryland, College Park
University of South Carolina
University of South Florida
University of Waterloo (Canada)
University of Wisconsin, Madison
University of Wisconsin, Milwaukee

Proposal Reviews

American Association for the Advancement of Science
 King Abdulaziz Program for Science and Technology
Canada Foundation for Innovation
 Leaders Opportunity Fund
Indo-US Science and Technology Forum
Montana Agricultural Experiment Station
National Geographic Society
National Institutes of Health
 Social Sciences and Population Studies Study Section
National Oceanic and Atmospheric Administration Science Advisory Board
National Science Foundation
 Archaeology Program
 Career Awards Program
 Conservation Biology Program
 Division of Behavioral and Cognitive Sciences Instrumentation Program
 Environmental Geochemistry and Biogeochemistry Program
 Geography and Regional Science Program
 Geography and Spatial Sciences Program
 Geology and Paleontology Program
 Human Dimensions to Global Change Program
 Hydrologic Sciences Program
 Instrumentation and Laboratory Improvement Program
 Small Business Innovative Research Program

Natural Environment Research Council (UK)
New Investigator Scheme

Natural Sciences and Engineering Research Council of Canada
Discovery Grants Program

Singapore National Research Foundation
Competitive Research Program

South Carolina Space Grant Consortium
Research and Education Awards Program

University of Southern California
Center for Scholarly Technology Barn Raising, Curriculum Design, and Jumpstart Programs
James H. Zumberge Faculty Research and Innovation Fund
Southern California Environmental Health Sciences Center

University of Wisconsin-Milwaukee
Research Growth Initiative Program

U.S. Department Agriculture-Cooperative States Research Service
Fund for Rural America Program
Soils and Soil Biology Program
Water Processes and Water Resources Program

Wisconsin Sea Grant Program

PROFESSIONAL CERTIFICATIONS

1994-2003 Certified ArcView Instructor, Esri, Inc., Redlands, California
1993-1998 Certified ArcCad Instructor, Esri, Inc., Redlands, California
1990-1998 Certified PC Arc/Info Instructor, Esri, Inc., Redlands, California

PROFESSIONAL SOCIETY MEMBERSHIPS

Association of American Geographers
Association of Pacific Coast Geographers
Los Angeles Geographical Society
National Geographic Society
Society for Conservation GIS
Soil and Water Conservation Society

Dr. John P. Wilson
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