HARVEY J. MILLER

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EDUCATION

| 1991. | Ph.D. (Geography), The Ohio State University, Columbus, Ohio. |
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| 1987. | M.A. (Geography), Kent State University, Kent, Ohio. |
| 1985. | B.A., Honors (Geography), Kent State University, Kent, Ohio. |

RESEARCH AND TEACHING INTERESTS

Human mobility and accessibility; Sustainable transportation and community *Empirical:* livability; Mobility and health.

Methodological: Geographic information science; Spatial analysis; Geocomputation; Time geography; Moving objects analytics.

PROFESSIONAL ACTIVITIES

Main Academic Appointments

| Director, Center for Urban and Regional Analysis (CURA), The Ohio State |
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| University. |
| Bob and Mary Reusche Chair in Geographic Information Science, The Ohio State |
| University. |
| Professor, Department of Geography, The Ohio State University. |
| Department Chair, Department of Geography, University of Utah. |
| Professor, Department of Geography, University of Utah. |
| Associate Professor, Department of Geography, University of Utah |
| Assistant Professor, Department of Geography, University of Utah. |
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Other Appointments and Affiliations

| sener repondences | |
|-------------------|---|
| 2017 – present. | Chair, Mapping Science Committee, National Research Council, US National Academies |
| 2016 – present. | Leadership Team, Sustainable and Resilient Economy, Discovery Themes initiatives, The Ohio State University. |
| 2016 – present. | Affiliate Faculty, Translational Data Analytics, Discovery Themes initiatives, The Ohio State University. |
| 2015 - 2018. | Board of Directors, University Consortium for Geographic Information Science. |
| 2014 - 2016. | Member, Mapping Science Committee, National Research Council, US National Academies. |
| 2014 - present. | Affiliate Professor, Institute for Population Research, College of Arts and Sciences, The Ohio State University. |
| 2013 - present. | Courtesy Professor, Department of City and Regional Planning, Knowlton School of Architecture, The Ohio State University. |
| 2013 - present. | Affiliated faculty, Center for Urban and Regional Analysis, College of Arts and Science, The Ohio State University. |
| 2013 - 2015. | Chair, Subcommittee on Research, Data and Information Section (ABJ00), Transportation Research Board, National Research Council, U.S. National |

| | Academies |
|--------------------|---|
| 2012 - 2015. | Co-chair, Subcommittee on Computational Transportation and Society (ABJ30(2)), |
| 2012 2013. | Transportation Research Board, National Research Council, U.S. National |
| | Academies. |
| 2012 - present. | Member, Data and Information Section (ABJ00), Transportation Research Board, |
| 2012 present. | National Research Council, U.S. National Academies. |
| 2012. | Chair, Geographic Information Systems and Science specialty group, Association of |
| 2012. | American Geographers. |
| 2011. | Visiting scholar, Institute for Geoinformatics, University of Münster, Münster, |
| 2011. | Germany. |
| 2011. | Vice-chair, Geographic Information Systems and Science specialty group, |
| 2011. | Association of American Geographers. |
| 2011. | Visiting faculty, Department of Infrastructure Engineering, University of |
| 2011. | Melbourne, Melbourne, Australia. |
| 2010. | Visiting faculty, Department of Geography, Ghent University, Gent, Belgium. |
| 2010. 2005 - 2013. | Member, Committee on Visualization in Transportation (ABJ95), Transportation |
| 2005 - 2015. | Research Board, National Research Council, U.S. National Academies. |
| 2005 - 2011. | |
| 2003 - 2011. | Co-chair, Committee on Geographic Information Science and Applications |
| 2002 2004 | (ABJ60), Transportation Research Board, U.S. National Academies. |
| 2002 - 2004. | Member, Task force on Visualization in Transportation (ABJ95T), Transportation |
| 2002 | Research Board, National Research Council, U.S. National Academies. |
| 2003. | Visiting scholar, Institute for Geoinformatics, University of Münster, Münster, |
| 0000 | Germany. |
| 2003 – present. | Member, Committee on Geographic Information Science and Applications (ABJ60), |
| | Transportation Research Board, National Research Council , U.S. National |
| | Academies |
| 2000 - 2003. | Board member, University Consortium for Geographic Information Science. |
| 2000 - 2003. | Councilor-at-large, North American Regional Science Association. |
| 1998 - 2001. | Director, Certificate Program in Geographic Information Science, Department of |
| | Geography and Department of Computer Science, University of Utah. |
| 1998 - 2000. | Chair, Spatial Analysis and Modeling Specialty Group, Association of American |
| | Geographers (formerly known as the Mathematical Modeling and Quantitative |
| | Methods specialty group). |
| 1996 - 1998. | Adjunct Associate Professor, Department of Civil and Environmental Engineering, |
| | Utah State University. |
| 1996 - 1998. | Vice-chair/Treasurer, Mathematical Modeling and Quantitative Methods Specialty |
| | Group, Association of American Geographers. |
| 1995. | Research Fellow, Bureau of Transportation Statistics, U.S. Department of |
| | Transportation, Washington, D.C. |
| 1995. | Interim Director, Digitally Integrated Geographic Information Technologies |
| | Laboratory, Department of Geography, University of Utah. |
| 1994 - 1996. | Board Member, Mathematical Modeling and Quantitative Methods Specialty Group, |
| | Association of American Geographers. |

Journal Boards and Editorships

| 2017 – present. | Environment and Planning B: Urban Analytics and City Science |
|-----------------|--|
| 2015 - present. | International Journal of Digital Earth. |
| 2014 - present. | Associate Editor, Geographical Analysis. |
| 2013 - present. | Journal of Location-based Services. |

| 2012 - present. | GIScience Thematic Editor, Journal of the Urban and Regional Information Systems |
|-----------------|---|
| | Association (URISA Journal). |
| 2009 - present. | Journal of Spatial Information Science. |
| 2009 - present. | International Regional Science Review. |
| 2008 - present. | Journal of Transport and Land Use |
| 2000 - 2004. | North American Editor, International Journal of Geographical Information Science. |
| 2000 - present. | Journal of the Urban and Regional Information Systems Association (URISA |
| | Journal). |
| 1999 - present. | Transportation. |
| 1998 - present. | International Journal of Geographical Information Science. |
| 1997 - 2011. | Journal of Regional Science. |
| 1996 - 2014. | Geographical Analysis. |
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Honors and Awards

| 2015. | Research Award, University Consortium for Geographic Information Science. |
|-------|---|
| 2009. | Edward L. Ullman Award for Significant Contributions to Transportation |
| | Geography, Transportation Geography specialty group, Association of American |
| | Geographers. |
| 2004. | Superior Research Award, College of Social and Behavioral Sciences, University of |
| | Utah. |
| 1997. | Geoffrey J. D. Hewings Award for Outstanding Young Scholar, North American |
| | Regional Science Council. |
| 1996. | Springer-Verlag Award for Best Paper Presented at the 35th Annual Meeting of the |
| | Western Regional Science Association, Napa, California. |
| 1996. | ESRI Award for Best Scientific Paper in Geographic Information Systems, |
| | American Society for Photogrammetry and Remote Sensing (with J. Lowry and G. |
| | Hepner). |
| 1994. | Superior Research Award, College of Social and Behavioral Sciences, University of |
| | Utah. |
| 1991. | Huntington Memorial Award for Outstanding Graduate Student, Department of |
| | Geography, Ohio State University. |
| 1991. | First place, GIS specialty group student paper competition, Association of American |
| | Geographers. |
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PUBLICATIONS

| Books | |
|-------|--|
| 2009. | Miller H.J. and Han J. (eds.) Geographic Data Mining and Knowledge Discovery, |
| | second edition, London: CRC Press. |
| 2008. | Cova T.J., Miller H.J., Beard K., Frank A.U. and Goodchild M.F., (eds.) |
| | Geographic Information Science - 5th International Conference, GIScience 2008, |
| | Park City, Utah. Lecture Notes in Computer Science (LNCS) 5266, Berlin: Springer. |
| 2007. | Miller H.J. (ed.) Societies and Cities in the Age of Instant Access, Berlin: Springer. |
| 2006. | Raubal M., Miller H.J., Frank A.U. and Goodchild M.F., (eds.) Geographic |
| | Information Science - Fourth International Conference, GIScience 2006, Münster, |
| | Germany, September 2006, Proceedings. Lecture Notes in Computer Science 4197, |
| | Berlin: Springer |
| 2004. | Egenhofer M.J., Freska C. and Miller H.J. (eds.) Geographic Information Science |
| | – Third International Conference, GIScience 2004, Adelphi, MD, USA, October |
| | 2004, Proceedings, Lecture Notes in Computer Science 3234, Berlin: Springer. |
| | 3 |
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| 2001. | Miller H.J. and Shaw SL. Geographic Information Systems for Transportation: |
|-------|---|
| | Principles and Applications, New York: Oxford University Press. |
| 2001. | Miller, H.J. and Han, J. (eds.) Geographic Data Mining and Knowledge Discovery, |
| | London: Taylor and Francis. |

Peer-refereed Journals

| In press. | Proffitt, D., Bartholomew, K., Ewing, R. and Miller, H.J. , "Accessibility planning |
|-----------|---|
| In press. | in American metropolitan areas: Are we there yet?" <i>Urban Studies</i> . Miller H.J. , "Geographic Information Science I: Geographic information |
| in press. | observatories and opportunistic GIScience," <i>Progress in Human Geography</i> . |
| 2017. | Tribby C.P., Miller H.J. , Brown B.B., Smith K.R. and Werner C.M. "Geographic |
| | regions for assessing built environmental correlates with walking trips: A |
| | comparison using different metrics and model designs, Health and Place, 45, 1-9. |
| 2016. | Brown B.B., Smith K.R., Tharp D.S., Werner, C.M., Tribby, C.P., Miller, H.J. and |
| | Jensen, W., "A complete street intervention for walking to transit, non-transit |
| | walking, and bicycling: A quasi-experimental demonstration of increased use," |
| | Journal of Physical Activity & Health. doi: 10.1123/jpah.2016-0066 |
| 2016. | Tribby C.P., Miller H.J., Brown B.B., Werner C.M. and Smith K.R., "Analyzing |
| | walking route choice through built environments using random forests and discrete |
| | choice techniques," <i>Environment and Planning B: Planning and Design</i> . doi: 10.1177/0265813516659286. |
| 2016. | Miller H.J. and Tolle K., "Big data for healthy cities: Using location-aware |
| 2010. | technologies, open data and 3D urban models to design healthier built |
| | environments," Built Environment, 42, 441-456. |
| 2016. | Brown, B.B., Tharp, D., Tribby, C.P., Smith, K.R., Miller, H.J., Werner, C.M. |
| | 'Changes in bicycling over time associated with a new bike lane: Relations with |
| | kilocalories energy expenditure and body mass index," Journal of Transport and |
| | Health, 3, 357-365. |
| 2016. | Brown B.B., Werner C.M., Smith K.R., Tribby C.P., Miller H.J., Jensen W. and |
| | Tharp D.S. "Environmental, behavioral, and psychological predictors of transit |
| | ridership: Evidence from a community intervention. Journal of Environmental |
| 2016. | <i>Psychology</i> , 46,188-196. Tang J., Song Y., Miller H.J. and Zhou X. "Estimating the most likely space-time |
| 2010. | paths, dwell times and path uncertainties from vehicle trajectory data: A time |
| | geographic method," <i>Transportation Research C</i> , 66, 176-194. |
| 2016. | Song Y., Miller H.J., Zhou X. and Proffitt D. "Modeling visit probabilities within |
| | network time prisms using Markov techniques," Geographical Analysis, 48, 18-42. |
| 2016. | Werner C.M., Brown B.B., Tribby C.P., Tharp D.S., Flick K., Miller H.J., Smith |
| | K.R. and Jensen W., "Evaluating the attractiveness of a new light rail extension: |
| | Testing simple change and displacement change hypotheses," <i>Transport Policy</i> , 45, |
| 2016 | 5–23. |
| 2016. | Tribby C.P., Miller H.J. , Brown B.B., Werner C.M. and Smith K.R., "Assessing |
| | built environment walkability using activity space summary measures," <i>Journal of Transport and Land Use</i> , 9, 1–21. |
| 2015. | Miller H.J., "Space-time data science for a speedy world," <i>I/S: A Journal of Law</i> |
| 2013. | and Policy for the Information Society, 10, 705-720. |
| 2015. | Farber S., O'Kelly M.E., Miller H.J. and Neutens T. "Measuring segregation using |
| | patterns of daily travel behavior: a social interaction based model of exposure," |
| | Journal of Transport Geography, 49, 26-38. |
| | |

| 2015. | Tong L., Zhou X. and Miller H.J. "Transportation network design for maximizing space-time accessibility," <i>Transportation Research B</i> , 81, 555-576. |
|-------|--|
| 2015. | Miller H.J., Tribby C.P., Brown B.B., Smith K.R., Werner C.M., Wolf J., Wilson L. and Oliveira M.G.S., "Public transit generates new physical activity: Evidence from individual GPS and accelerometer data before and after light rail construction |
| 2015. | in a neighborhood of Salt Lake City, Utah, USA," <i>Health and Place</i> , 36, 8-17 Brown B.B., Werner C.M., Tribby C.P., Miller H.J. and Smith K.R., "Transit use, physical activity, and body mass index changes: Objective measures associated with Complete Street light rail construction," <i>American Journal of Public Health</i> , 105, |
| 2015. | 1468-1474. Miller H.J. and Shaw, SL., "Geographic information systems for transportation in the 21 st century," <i>Geography Compass</i> , 9, 180-189. |
| 2015. | Miller H.J. and Goodchild, M.F., "Data-driven geography," <i>GeoJournal</i> , 80, 449-461. |
| 2014. | Hu Y., Miller H.J. and Xiang Li, "Detecting and analyzing mobility hotspots using surface networks," <i>Transactions in GIS</i> , 18, 911-935. |
| 2014. | Brown B.B., Werner C.M., Smith K.R., Tribby C.P. and Miller H.J. , "Physical activity mediates the relationship between perceived crime safety and obesity," <i>Preventive Medicine</i> , 66, 140–144 |
| 2014. | Brown B.B., Wilson L., Tribby C.P., Werner C.M., Wolf J., Miller H.J. , Smith K.R. "Adding maps (GPS) to accelerometry data to improve study participants' recall of physical activity: A methodological advance in physical activity research," <i>British Journal of Sports Medicine</i> , 48, 1054-1058. |
| 2014. | Ahas R., Miller H.J. and Witlox F. "Mobility, communication and urban space," <i>Journal of Urban Technology</i> , (guest editors' introduction to special issue), 21, 1-7. |
| 2014. | Song Y. and Miller H.J. , "Simulating visit probability distributions within planar space-time prisms," <i>International Journal of Geographical Information Science</i> , 28, 104-125. |
| 2014. | Jeong MH., Duckham M., Allison Kealy, Miller H.J. and Peisker P. "Decentralized and coordinate-free computation of critical points and surface networks in a discretized scalar field," <i>International Journal of Geographical Information Science</i> , 28, 1-21. |
| 2013. | Miller H.J. , "Beyond sharing: Cultivating cooperative transportation systems through geographic information science," <i>Journal of Transport Geography</i> , 31, 296-308. |
| 2013. | Tribby C.P., Miller H.J. , Song Y. and Smith K.R., "Do air quality alerts reduce traffic? An analysis of traffic data from the Salt Lake City metropolitan area, Utah, USA," <i>Transport Policy</i> , 30, 173-185. |
| 2013. | Farber S., Neutens T., Miller H.J. and Xiao Li, "The social interaction potential of metropolitan regions: A time-geographic measurement approach using joint accessibility," <i>Annals of the Association of American Geographers</i> , 103, 483-504. |
| 2013. | Miller H.J., Witlox F. and Tribby C.P., "Developing context-sensitive livability indicators for transportation planning: A measurement framework," <i>Journal of Transport Geography</i> , 26, 51-64. |
| 2012. | Song Y. and Miller H.J. , "Exploring traffic flow databases using space-time plots and data cubes," <i>Transportation</i> , 39, 215–234. |
| 2011. | Kobayashi T., Miller H.J. and Othman W., "Analytical methods for error propagation in planar space-time prisms," <i>Journal of Geographical Systems</i> , 13, 327–354. |

| 2010. | Neutens T., Schwanen T. and Miller H.J. , "Dealing with timing and synchronization in opportunities for joint activity participation," <i>Geographical Analysis</i> , 42, 245-266 |
|-------|--|
| 2010 | Kuijpers B., Miller H.J., Neutens T. and Othman W. "Anchor uncertainty and |
| 2010. | space-time prisms on road networks," International Journal of Geographical |
| | Information Science, 24, 1223-1248. |
| 2010 | |
| 2010. | Miller H.J., "The data avalanche is here. Shouldn't we be digging?" Journal of <i>Basisman</i> 50, 181, 201 |
| 2000 | Regional Science, 50, 181-201. |
| 2009. | Miller H.J. and Bridwell S.A., "A field-based theory for time geography," Annals of the Association of American Geographers, 99, 49-75. |
| 2007. | Miller H.J., "Place-based versus people-based geographic information science," |
| | Geography Compass, 1, 503-535. |
| 2007. | Ahmed N. and Miller H.J., "Time-space transformations of geographic space for |
| | exploring, analyzing, and visualizing transportation systems," Journal of Transport |
| | <i>Geography</i> , 15, 2-17. |
| 2006. | Sobek A. and Miller H.J., "U-Access: A web-based system for routing pedestrians |
| | of differing abilities," Journal of Geographical Systems, 8, 269-287. |
| 2005. | Miller H.J., "Necessary space-time conditions for human interaction," Environment |
| | and Planning B: Planning and Design, 32, 381-401. |
| 2005. | Miller H.J., "A measurement theory for time geography," Geographical Analysis, |
| | 37, 17-45. |
| 2004. | Raubal M., Miller H.J. and Bridwell S.A., "User-centered time geography for |
| | location-based services," Geografiska Annaler-B, 86, 245-265. |
| 2004. | Miller H.J. "Tobler's First Law and spatial analysis," Annals of the Association of |
| | American Geographers, 94(2), 284-289. |
| 2003. | Miller H.J. and Wentz E.A. "Representation and spatial analysis in geographic |
| | information systems," Annals of the Association of American Geographers, 93, 574- |
| | 594. |
| 2001. | Wu YH. and Miller H.J., "Computational tools for measuring space-time |
| | accessibility within transportation networks with dynamic flow," Journal of |
| | Transportation and Statistics (special issue on methodological issues in |
| | accessibility), 4 (2/3), 1-14. |
| 2001. | Wu YH., Miller H.J. and Ming-Chih Hung, "A GIS-based decision support system |
| | for dynamic network congestion analysis and routing," Journal of Geographical |
| | <i>Systems</i> , 3, 3-24. |
| 2000. | Miller H.J. and Wu YH., "GIS software for measuring space-time accessibility in |
| | transportation planning and analysis," GeoInformatica, 4, 141-159. |
| 2000. | Miller H.J., "Geographic representation in spatial analysis," Journal of |
| | Geographical Systems, 2, 55-60. |
| 1999. | Miller H.J., "Potential contributions of spatial analysis to geographic information |
| | systems for transportation (GIS-T)," Geographical Analysis, 31, 373-399. |
| 1999. | Miller H.J., "Measuring space-time accessibility benefits within transportation |
| | networks: Basic theory and computational methods," Geographical Analysis, 31, |
| | 187-212. |

| 1998. | Miller H.J., "Emerging themes and research frontiers in GIS and activity-based travel demand forecasting," <i>Geographical Systems</i> , 5, 189-198. |
|-------|---|
| 1998. | Cannon S.J., Kontuly T.M. and Miller H.J., "GIS-based emergency response |
| 1990. | planning in a Mexico/U.S. border community," Applied Geographical Studies, 2, |
| | 111-130. |
| 1996. | Okabe A. and Miller H.J. , "Exact computational methods for calculating distances |
| 1990. | |
| | between objects in a cartographic database," <i>Cartography and Geographic</i> |
| 1006 | Information Systems, 23, 180-195. |
| 1996. | Miller H.J. and Storm J.D., "GIS design for network equilibrium-based travel demand models," <i>Transportation Research C</i> , 4C, 373-389. |
| 1996. | Miller H.J., "Pricing policy reactions to agglomeration in a market with spatial |
| 1990. | search," Journal of Regional Science, 36, 393-415. |
| 1996. | Miller H.J., "GIS and geometric representation in facility location problems," |
| 1770. | International Journal of Geographical Information Science, 10, 791-816. |
| 1995. | Lowry J.H., Miller H.J. and Hepner G.F., "A GIS-based sensitivity analysis of |
| | community vulnerability to hazardous contaminants on the Mexico/U.S. border," |
| | Photogrammetric Engineering and Remote Sensing (Special GIS Issue), 61, 1347- |
| | 1359. |
| 1995. | Miller H.J. and Finco M.V., "Spatial search and spatial competition: A probability |
| | analysis of basic results from the spatially-restricted theory," Annals of Regional |
| | Science, 29, 67-89. |
| 1994. | Miller H.J., "Probability-based models of spatial search," Environment and |
| | <i>Planning A</i> , 26, 383-405. |
| 1994. | O'Kelly M.E. and Miller H.J., "The hub network design problem: A review and |
| | synthesis," Journal of Transport Geography, 2, 31-40. |
| 1994. | Miller H.J. "Market area delimitation within networks using geographic |
| | information systems," Geographical Systems, 1, 157-173. |
| 1993. | Miller H.J., "Consumer search and retail analysis," Journal of Retailing, 69, 160- |
| | 192. |
| 1993. | Miller H.J., "Modeling strategies for the spatial search problem," Papers in |
| | Regional Science, 72, 63-85. |
| 1992. | Miller H.J., "Human wayfinding, environment-behavior relationships, and artificial |
| | intelligence," Journal of Planning Literature, 7, 139-150. |
| 1991. | Miller H.J., "Modeling accessibility using space-time prism concepts within |
| | geographical information systems," International Journal of Geographical |
| | Information Systems, 5, 287-301. |
| | 2011. Reprinted in the <i>IJGIS 25th Anniversary Virtual Issue</i> . |
| | 2007. Reprinted in P. Fisher (ed.) Classics from IJGIS: Twenty Years of the |
| | International Journal of Geographical Information Science and Systems, |
| 1001 | London: Taylor and Francis, 157-173. |
| 1991. | O'Kelly M.E. and Miller H.J. , "Solution strategies for the single facility minimax |
| 1001 | hub location problem," <i>Papers in Regional Science</i> , 70, 367-380. |
| 1991. | Miller H.J. and O'Kelly M.E., "Properties and estimation of a production constrained Alonso model," <i>Environment and Planning A</i> , 23, 127-138. |
| 1990. | Miller H.J. and O'Kelly M.E., "Incorporating situational effects into retail market |
| 1770. | area delimitation," <i>The Operational Geographer</i> , 8(2), 9-12. |
| | and domination, The operational debgrapher, 0(2), 7-12. |
| | |

| 1989. | Jackson R.W., Miller H.J. and Hynes M., "A formal procedure for generating |
|-------|---|
| | regional product accounts for U.S. regions," Socio-Economic Planning Science, 23, |
| | 271-281. |
| 1989. | O'Kelly M.E. and Miller H.J., "A synthesis of some market area delimitation |

models," Growth and Change, 20(3), 14-33.

Peer-refereed Conference Proceedings

| 2016. | Miller H.J., Raubal M. and Jaegal Y. "Measuring space-time prism similarity |
|-------|--|
| | through temporal profile curves," Geospatial Data in a Changing World: Selected |
| | Papers of the 19th AGILE Conference on Geographic Information Science, |
| | Springer: Lecture Notes on Geoinformation and Cartography, 51-66. |
| 2013. | Miller H.J., "Location-based services in 2030: From sharing to collective action," |
| | in J. M. Krisp, (ed.), Progress in Location-Based Services, Lecture Notes in |
| | Geoinformation and Cartography, Springer, 29-35. |
| 2011. | Miller H.J., "Collaborative mobility: Using geographic information science to |
| | cultivate cooperative transportation systems," Procedia Social and Behavioral |
| | Sciences (International Conference on Spatial Thinking and Geographic Information |
| | Sciences, Tokyo, Japan, 14-16 September 2011), 21, 24-28 |
| 2011. | Kuijpers B., Miller H.J. and Othman W., "Kinetic space-time prisms," GIS '11: |
| | Proceedings of the 19th ACM SIGSPATIAL International Conference on Advances |
| | in Geographic Information Systems, New York: Association for Computing |
| | Machinery, 162-170. |
| 2010. | Miller H.J., Kobayashi T. and Othman W., "Error propagation in space-time |
| | prisms," in N. J. Tate and P. F. Fisher (eds.) Accuracy 2010: Proceedings of the |
| | Ninth International Symposium on Spatial Accuracy Assessment in the Natural |
| | Resources and Environmental Sciences, International Spatial Accuracy Research |
| | Association, 37-40. |
| | |

Other Conference Proceedings

| 2008. | Kuijpers B., Miller H.J., Neutens T. and Othman W., "Anchor uncertainty and |
|-------|---|
| | space-time prisms on road networks", Proceedings of the Dagstuhl seminar 08471 |
| | "Geographic Privacy-Aware Knowledge Discovery and Delivery." |
| 2001. | Hepner G.F., Cova T.J., Forster R.R. and Miller H.J., "Use of remote sensing and |
| | geospatial analysis for transportation hazard assessment: An integrated university, |
| | government and private sector consortium," Proceedings, IEEE/ISPRS Joint |
| | Workshop on Remote Sensing and Data Fusion over Urban Areas, IEEE-01EX482, |
| | Rome, Italy, pp.241-244. |
| 1999. | Miller H.J., "GIS software for measuring space-time accessibility in transportation |
| | planning and analysis, " Proceedings, International Workshop on geographic |
| | information systems for transportation and intelligent transportation systems, Joint |
| | Laboratory for GeoInformation Science of the Chinese Academy of Sciences and |
| | the Chinese University of Hong Kong, China, and the National Center for |
| | Geographic Information and Analysis, USA. |
| 1999. | Miller H.J., Wu YH. and Hung M., "GIS-based dynamic traffic congestion |
| | modeling to support time-critical logistics," Proceedings of the Hawaii International |
| | Conference on Systems Science, Los Alamitos, CA: Institute of Electrical and |
| | Electronics Engineers Computer Society. |
| 1997. | Miller H.J. and Ray J., "GIS software for dynamic transportation congestion |
| | analysis in time-critical logistics," GIS/LIS'97 Proceedings, 163-170. |
| | • |

| 1996. | Miller H.J., "Solving location and layout problems using GIS and simulated annealing," <i>GIS/LIS'96 Proceedings</i> , 310-324. |
|---------------|--|
| 1995. | Miller H.J. , John D. Storm and Mace Bowen, "GIS design for multimodal network analysis," <i>GIS/LIS '95 Proceedings</i> , 750-759. |
| 1994. | Finco M.V., Hepner G.F. and Miller H.J. , "GIS modeling of contaminant pathways and human exposure in the Nogales region of the Mexico - U.S. border," <i>GIS/LIS</i> |
| 1993. | <i>'94 Proceedings</i> , 312-321. Miller H.J. , "GIS and the geometry of facility location problems," <i>GIS/LIS '93 Proceedings</i> , 530-539. |
| Book Chapters | |
| In press. | Miller, H. J. , "Time geography," in D. R. Montello (ed.), <i>Handbook of Behavioral and Cognitive Geography</i> , Cheltenham, UK: Edward Elgar |
| 2017. | Miller H.J. , "Theories and models in urban transportation planning," in S. Hanson and G. Giuliano (eds.) <i>The Geography of Urban Transportation</i> , 4 th edition, Guilford, 113-138. |
| 2017. | Miller H.J. , "Time geography and space-time prism," in D. Richardson, N. Castree, M. F. Goodchild, A. Kobayashi, W. Liu and R. A. Marston (eds.) <i>International Encyclopedia of Geography</i> , Wiley, DOI: 10.1002/9781118786352.wbieg0431. |
| 2017. | Miller H.J. , "Spatial data analytics," in R. Kitchin, T. P. Lauriault and M. W. Wilson (eds.) <i>Understanding Spatial Media</i> , Sage, 149-157. |
| 2015. | Miller H.J. , "Spatio-temporal knowledge discovery," in C. Brunsdon and A. Singleton (eds.) <i>Geocomputation: A Practical Primer</i> , Sage, 97-109. |
| 2015. | Song Y. and Miller H.J. , "Beyond the boundary: New insights from inside the space-time prism," in M-P. Kwan, D. Wang, C. Zhou and D. Richardson (eds.) <i>Space-time Integration in Geography and GIScience: Research Frontiers in the US</i> |
| 2014. | <i>and China</i> , Springer, 189-209. Miller H.J. , "Activity-based analysis," in M. Fischer and P. Nijkamp (eds.) <i>Handbook of Regional Science</i> , Springer, 705-724. |
| 2014. | Kobayashi T. and Miller H.J. , "Exploratory visualization of collective mobile objects data using temporal granularity and spatial similarity," in G. Cervone, J. Lin and N. Waters (eds.) <i>Data Mining for Geoinformatics: Methods and Applications</i> , Springer, 127-154. |
| 2009. | Bridwell S.A. and Miller H.J. , "Location-based services," in L. Liu and M. Tamer Özsu (eds.) <i>Encyclopedia of Database Systems</i> , Springer, 1639-1641. |
| 2009. | Miller H.J. , "Geocomputation," in A. S. Fotheringham and P.A. Rogerson (eds.) <i>Handbook of Spatial Analysis</i> , Sage Publications, 397-418. |
| 2009. | Miller H.J. "Space-time measures of transportation vulnerability,' in M. Tahmisoğlu and Ç.Özen (eds.) <i>Transportation Security Against Terrorism</i> , NATO Science for Peace and Security Series E: Human and Societal Dynamics, Vol. 54, IOS Press, 61-74. |
| 2008. | Miller H.J. "Time geography," in S. Shekhar and H. Xiong (eds.) <i>Encyclopedia of GIS</i> , 1151-1156 |
| 2007. | Miller H.J. , "Geographic data mining and knowledge discovery," in J. P. Wilson and A. S. Fotheringham (eds.) <i>Handbook of Geographic Information Science</i> , Blackwell. |
| 2007. | Miller H.J. "Societies and cities in the age of instant access," in H.J. Miller (ed.) <i>Societies and Cities in the Age of Instant Access</i> , Berlin: Springer, 3-37. |

| 2007. | Miller H.J. "Modeling accessibility using space-time prism concepts with geographical information systems: Fourteen years on," in P. Fisher (ed.) <i>Classics</i> |
|---------------------------|--|
| | from IJGIS: Twenty Years of the International Journal of Geographical Information |
| 2007. | Science and Systems, London: Taylor and Francis, 175-179. Miller H.J., "Social exclusion in space and time," in K.W. Axhausen (ed.) Moving through Nets: The Social and Physical Aspects of Travel, Elsevier, 353-380. |
| 2005. | Miller H.J., "Place-based versus people-based accessibility," in D. Levinson and K. J. Krizek (eds.) Access to Destinations, Elsevier, 63-89 |
| 2005. | Miller H.J., "What about people in geographic information science?" in P. Fisher and D. Unwin (eds.) <i>Re-Presenting Geographic Information Systems</i> , John Wiley, 215-242. |
| 2005. | Getis A., Anselin L., Lea A., Ferguson M. and Miller H.J. "Spatial analysis and modeling in a GIS environment," in R. B. McMaster and E. Lynn Usery (eds.) <i>A Research Agenda for Geographic Information Science</i> , Boca Raton, FL: CRC Press, 157-196. |
| 2005. | Yuan M., Buttenfield B.P., Gahegan M. and Miller H.J. "Geospatial data mining and knowledge discovery," in R. B. McMaster and E. Lynn Usery (eds.) <i>A Research</i> <i>Agenda for Geographic Information Science</i> , Boca Raton, FL: CRC Press, 365-388. |
| 2004. | Miller H.J., "Activities in space and time," <i>Handbook of Transport 5: Transport Geography and Spatial Systems</i> , Elsevier Science, 647-660. |
| 2003. | Miller H.J., "Transportation and communication lifeline disruption," in S. L. Cutter, D. B. Richardson and T. Wilbanks (eds.) <i>The Geographic Dimension of Terrorism</i>, New York: Routledge, 145-152. |
| 2001. | Miller H.J. and Jiawei Han, "Geographic data mining and knowledge discovery: An overview," in H. J. Miller and J. Han (eds.) <i>Geographic Data Mining and Knowledge Discovery</i> , London: Taylor and Francis, 3-32. |
| 2000. | Batty M. and Miller H.J. , "Representing and visualizing physical, virtual and hybrid information spaces" in D. Janelle and D. Hodge (eds.) <i>Information, Places, and Cyberspace: Issues in Accessibility</i> , Berlin: Springer-Verlag, 133-146. |
| Book Reviews | |
| 2014. | J. Campoli <i>Made for Walking: Density and Neighborhood Form</i> . Cambridge, Massachusetts: Lincoln Institute of Land Policy; <i>Journal of Regional Science</i> , 53, 954–955. |
| 2002. | P. Atkinson and D. Martin (eds.) <i>GIS and Geocomputation</i> , Taylor and Francis, Innovations in GIS 7; <i>Geographical Analysis</i> , 34, 286-288. |
| 2001. | A. S. Fotheringham and M. Wegener (eds.) <i>Spatial Models and GIS: New Potential and New Models</i> , Taylor and Francis, GISDATA 7; <i>Environment and Planning B: Planning and Design</i> , 28, 623-636. |
| 1999. | S. Openshaw and C. Openshaw, Artificial Intelligence in Geography, New York: John Wiley; Journal of Regional Science, vol 39. |
| Other Publications | |
| 2009. | Miller H.J. , "Transport 2.0: Meeting grand transportation challenges with geographic information science," <i>ArcNews</i> 30(4), 1-5. |
| 2003. | Miller H.J., "What about people in geographic information science?" guest editorial, <i>Computers, Environment and Urban Systems</i> , 27, 447-453. |
| 2000. | Miller H.J. and Jiawei Han, "Discovering geographic knowledge in data rich |

| | of the (Association for Computing Machinery) Special Interest Group on Knowledge |
|-------|---|
| | Discovery and Data Mining, 1(2), 105-108; available at |
| | http://www.acm.org/sigs/sigkdd/explorations/ |
| 1999. | Miller H.J. and Jiawei Han, "Discovering geographic knowledge in data-rich |
| | environments," Specialist Meeting Report, National Center for Geographic |
| | Information and Analysis – Project Varenius. |
| 1997. | Miller H.J. "Towards consistent travel demand estimation in transportation |
| | planning: A guide to the theory and practice of equilibrium travel demand |
| | modeling," Research Report, Bureau of Transportation Statistics, U. S. Department |
| | of Transportation. |
| 1993. | Hepner G.F. and Miller H.J., "Using GIS for environmental assessment," ACSM |
| | Bulletin, 146 (November/December), 42-46. |
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OTHER RESEARCH ACTIVITIES Keynote, Plenary and Endowed Lectures

| 2017. | "Big Data for healthy places: Building healthier environments through opportunistic GIScience," 16th Annual Malcolm Comeaux Lecture, School of |
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| | Geographical Sciences and Urban Planning, Arizona State University, March 14 th . |
| 2016. | "Big Data for healthy places: Building healthier environments through opportunistic GIScience," <i>GI-Forum</i> , Salzburg, Austria, July 5. |
| 2015. | "Data-driven geography for a speedy world," <i>International Land Use Symposium</i> |
| 2015. | 2015, Dresden, Germany, November 12. |
| 2015. | "Data-driven geography for a speedy world," Second International Conference on |
| 2015. | Spatial Data Mining and Geographic Knowledge Services, Fuzhou, China, July 9. |
| 2015. | "Geographic information science for a speedy world," <i>Rethink Research</i> : |
| 2015. | University of Saskatchewan Research Intensification Series, Saskatoon, Canada, |
| | March 4. |
| 2014. | "The Moving Across Places Study (MAPS): Measuring the influence of built |
| 2011 | environmental interventions on physical activity," <i>Howard A. Stafford Lecture</i> , |
| | Department of Geography, University of Cincinnati, Cincinnati, Ohio, November |
| | 14. |
| 2014. | "Green accessibility: Calculating the environmental costs of space-time prisms in |
| | sustainable transportation planning," Mobile Tartu 2014: Mobile Data, |
| | Geography, LBS, Tartu, Estonia, July 1. |
| 2014. | "A journey inside the space-time prism: Modeling visit probabilities within space- |
| | time prisms," International Time Geography Days, Linköping, Sweden, May 14th. |
| 2013. | "Big Time Geography: Time geography in the era of Big Data," <i>GeoComputation</i> |
| | 2013, Wuhan, China, May 24. |
| 2013. | "Location and cooperation: Avoiding collective failures through geographic |
| | information science," GIS Research UK (GISRUK) symposium, Liverpool, UK, |
| | April 5 th . |
| 2013. | "Collaborative mobility: Using geographic information science to cultivate |
| | cooperative transportation systems," Richard Murphy Lecture, Department of |
| | Geography and Environmental Studies, University of New Mexico, March 22. |
| 2012. | "Space-time GIS for a crowded, connected and dynamic world," Space-time |
| | GIScience and Analysis Forum, State Key Laboratory of Information Engineering |
| | in Surveying, Mapping and Remote Sensing, Wuhan University, Wuhan, China, |

| | November 15. |
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| 2012. | "Space-time GIS for a crowded, connected and dynamic world," <i>Space-time GIScience and Analysis Forum</i> , Institute of Geographical Sciences and Natural |
| 2012. | Resource Research, Chinese Academy of Sciences, Beijing, China, November 13. "LBS in 2030: From sharing to collective action," <i>LBS 2012: 9th Symposium on Location-based Services</i> , Munich, Germany, October 17. |
| 2012. | "Big time geography: Time geography in the era of sensed mobility," Time-Geographic Information Science: a Workshop on Time-Geography, GIScience 2012: Seventh International Conference on Geographic Information Science, |
| 2012. | Columbus, Ohio, September 18. "Big time geography: Time geography in the era of sensed mobility," <i>Mobile Tartu</i> 2012: Mobile Phones, Geography and Location-based Services, Tartu, Estonia, August 23. |
| 2011. | "Collaborative mobility: Using geographic information science to cultivate cooperative transportation systems," <i>Frontiers in Transportation International Workshop</i> , Niagara-on-the-Lake, Ontario, Canada, October 20. |
| 2011. | "Collaborative mobility: Using geographic information science to cultivate cooperative transportation systems," <i>STGIS 2011: International Conference on Spatial Thinking and Geographic Information Sciences</i> , Tokyo, Japan, September 16. |
| 2011. | "Transparent transportation and mirror worlds: From sensed to smart transportation," <i>Geoinfomatik 2011</i> , Münster, Germany, June 15. |
| 2010. | "Measuring livability: How do we measure progress and success?" <i>Transportation for Livable Communities: Charting a Research Agenda</i> conference, sponsored by the Research and Innovative Technology Administration, U.S. Department of Transportation, Washington, DC, October 18. |
| 2010. | "Mobility in geospaces: What can we say analytically (so far)?" <i>Movement Pattern</i> <i>Analysis (MPA'10)</i> workshop, Zurich, Switzerland, September 14. |
| 2010. | "Transparent transportation and mirror worlds," <i>Fleming Lecture in Transportation Geography</i> , Association of American Geographers annual |
| 2009. | meeting, April 17. "Grand transportation challenges and geographic information science," 2009 International Workshop on Geographic Information Systems for Transportation, Weber, China Day 4.6 |
| 2009. | Wuhan, China, Dec 4-6. "What about people in geographic information science?" <i>Arthur H. Robinson Lecture</i>, Department of Geography, The Ohio State University, Columbus, Ohio, Echanom 10. |
| 2008. | February 19. "Geographic theory and geospatial knowledge discovery," keynote address, δ^{th} <i>International Conference on Data Mining</i> , Institute of Electrical and Electronics Engineers, Pice, Italy, December 18 |
| 2008. | Engineers, Pisa, Italy, December 18."Place-based versus people-based accessibility," <i>Reta A, Hayes Lecture</i>, College of Geosciences, Texas A&M University, College Station, Texas, November 21. |
| 2005. | "Place-based versus people-based accessibility: The role of geospatial technologies," keynote lecture, <i>GISPlanet: Second International Conference and</i> |
| 2004. | Exposition on Geographic Information, Estoril, Portugal, May 30 – June 2. "Place-based versus people-based accessibility," plenary lecture, Accessibility to Destinations: Re-thinking the Transportation Future of our Region, Center for Transportation Studies University of Minnesota Neurophys. 8, 0 |
| 2003. | Transportation Studies, University of Minnesota, November 8-9. "Trends in geographic information systems and science," keynote address, |

Geographic Information Systems for Transportation (GIS-T) annual conference and symposium, Colorado Springs, CO, March 17-19.

2002. "What about people in geographic information science?" plenary lecture, workshop on *Action-oriented Approaches in Geographic Information Science*, Holden, ME, November 2-4

Other Invited Lectures and Presentations

| 2017. | "Using GIS to make urban mobility more sustainable," webinar, Geographical Sciences Committee, National Academies of Sciences, Engineering and Medicine, |
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| | March 1. |
| 2016. | "GIS for transportation in the 21 st century," special session on Spatial Perspectives on Transport Systems, <i>GI-Forum</i> , Salzburg, Austria, July 6. |
| 2015. | "Does public transit generate new physical activity?" Voices from the Community |
| 2015. | lecture series, College of Public Health, The Ohio State University, September 30. |
| 2015. | "Green accessibility: Estimating the environmental costs of space-time prisms in |
| 2013. | sustainable transportation planning," Institute of Geographic Sciences and Natural Resource Research, Chinese Academy of Sciences, Beijing, China, July 14. |
| 2015. | "The Moving Across Places Study (MAPS): Measuring the influence of built |
| 2013. | environmental interventions on physical activity," Urban Big Data Centre, |
| | University of Glasgow, Glasgow, UK, June 23. |
| 2014. | "The Moving Across Places Study (MAPS): Measuring the influence of built |
| | environmental interventions on physical activity," John Glenn School of Public |
| | Affairs colloquium series, The Ohio State University, December 1. |
| 2014. | (Three lectures) "Green accessibility: Estimating the environmental costs of space- |
| | time prisms in transportation planning, "Location and cooperation: Avoiding |
| | collective failures through geographic information science" and "Big time |
| | geography: Time geography in the era of sensed mobility," College of |
| | Transportation Science and Engineering," Harbin Institute of Technology, Harbin, |
| | China, July 16-18. |
| 2014. | "Green accessibility: Estimating the environmental costs of space-time prisms in |
| | transportation planning," Department of Geography, The Pennsylvania State |
| | University, April 18. |
| 2014. | "Space-time data science for a speedy world," Big Data Future conference, |
| | Columbus, Ohio, March 20. |
| 2013. | "Beyond sharing: Cultivating cooperative transportation systems through |
| | geographic information science," Institute for Population Research, The Ohio |
| | State University, October 1. |
| 2013. | "Beyond sharing: Cultivating cooperative transportation systems through |
| | geographic information science," Department of Geography, Kent State |
| | University, Kent, Ohio, September 20. |
| 2012. | "Beyond sharing: Cultivating cooperative transportation systems through |
| | geographic information science," Department of Transportation Science, Kungliga |
| | Tekniska Högskolan (Royal Institute of Technology), Stockholm, Sweden, August |
| | 14. |
| 2012. | "Collaborative mobility: Using geographic information science to cultivate |
| | cooperative transportation systems," School of Geography and Earth Sciences, |
| | McMaster University, Hamilton, ON, Canada, March 27. |

2011. "Mobility in geospaces: What can we say analytically (so far)?" Institute for Geoinformatics, University of Münster, Münster, Germany, June 21.

2011. "Transparent transportation and mirror worlds: From sensed to smart transportation," Department of Infrastructure Engineering, University of Melbourne, Melbourne, Australia, March 30.

- 2011. "Transparent transportation and mirror worlds: From sensed to smart transportation," National Information and Communication Technologies – Australia (NICTA), University of New South Wales, Sydney, Australia, March 21.
- 2010. "Mobility in geospaces: What can we say analytically (so far)?" International Institute for Geoinformation Science and Earth Observation, University of Twente, Enschede, The Netherlands, October 8.
- 2010. "Place-based versus people-based science with applications in health," Clinical Research and Methods (CRAM) seminar series, Center of Excellence in Women's Health, School of Medicine, University of Utah, February 12.
- 2009. "What about people in geographic information science?" The State Key Laboratory of Information Engineering in Surveying, Mapping and Remote Sensing, Wuhan University, Wuhan, China, December 6.
- 2009. "What about people in geographic information science?" Regional Research Institute, West Virginia University, Morgantown, WV, October 8.
- 2009. "What about people in geographic information science?" Department of Theoretical Computer Science, Hasselt University, Hasselt, Belgium, May 19.
- 2008. "GIS tools for measuring accessibility in real and virtual spaces," Department of Geography and Department of Civil Engineering, University of Connecticut, February 29.
- 2008. "GIS tools for measuring accessibility in real and virtual spaces," Geographic Information Science and Technology Group, Computational Sciences and Engineering Division, Oak Ridge National Laboratory, January 25.
- 2008. "GIS tools for measuring accessibility in real and virtual spaces," Department of Geography, University of Tennessee, January 24.
- 2007. "GIS tools for measuring accessibility in real and virtual spaces," Department of Geography, Florida State University, Tallahassee, Florida. November 16.
- 2007. "GIS tools for measuring accessibility in real and virtual spaces," National e-Science Centre, University of Edinburgh, Edinburg, Scotland, U.K., September 6.
 2006. "Measuring space-time accessibility in network and multi-dimensional spaces," Institute of Remote Sensing Applications, Chinese Academy of Sciences, Beijing,
- China, May 16. "Negeogenery space time conditions for human interaction." Institute of Cooperation
- 2006. "Necessary space-time conditions for human interaction," Institute of Geographic Science and Natural Resource Research, Chinese Academy of Sciences, Beijing, China, May 16.
- 2006. "Place-based versus people-based accessibility," Department of Space Information Science and Department of Geography, Peking University, May 18.
 2006. "Place-based versus people-based science: The role of geo-spatial technologies,"
- School of Architecture, Tsinghua University, Beijing, China, May 19.
- 2006. "Measuring space-time accessibility in network and multidimensional spaces," Department of Geography, East China Normal University, Shanghai, China, May 20.
- 2006. "Place-based versus people-based science: The role of geo-spatial technologies," International Institute for Earth System Science, Nanjing, China, May 24.

| 2006. | "Geographic information systems and their role in health research," Cancer Control and Population Sciences research group, Huntsman Cancer Institute, Salt |
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| | Lake City, UT, January 18. |
| 2005. | "Place-based versus people-based accessibility," Department of Geography, |
| 2004 | University of Iowa, March 4. |
| 2004. | "Geospatial and spatio-temporal knowledge discovery: Overview and agenda," |
| | National Geospatial-Intelligence Agency (Oct. 19), Central Intelligence Agency |
| | (Oct. 19) and National Security Agency (Oct. 20), Washington, DC (co-sponsored |
| 2004 | by the University Consortium for Geographic Information Science). |
| 2004. | "Place-based versus people-based science: The role of geospatial technologies," |
| | research roundtable, Department of Family and Preventive Medicine, University |
| 2004 | of Utah, September 17. |
| 2004. | "What are geographic information systems? And where are they going?" public |
| | health seminar, Department of Family and Preventive Medicine, University of |
| 2004 | Utah, September 9. |
| 2004. | "What are geographic information systems? And where are they going?" Guy F. |
| | Atkinson Distinguished Lecture Series, Department of Geology and Geophysics, |
| 2002 | University of Utah, January 22. |
| 2003. | "Geospatial and spatio-temporal knowledge discovery: Overview and agenda," |
| | plenary lecture Geospatial Visualization and Knowledge Discovery Workshop, |
| 2002 | Lansdowne, VA, November 17-20. |
| 2003. | "Mapping and measuring space-time accessibility in network and |
| | multidimensional spaces," Department of Geography, Arizona State University, |
| 2002 | November 7. |
| 2003. | "Mapping and measuring space-time accessibility in network and |
| | multidimensional spaces," seminar on "Accessibility: New perspectives and |
| | practices," sponsored by the Netherlands Graduate School of Housing and Urban Baseareh (NETHUR), University of Ureacht, The Netherlands, Ostehar 20 |
| 2003. | Research (NETHUR), University of Utrecht, The Netherlands, October 30. "GIS tools for measuring space-time accessibility in transportation networks," |
| 2003. | Institute for Geoinformatics, University of Münster, Münster, Germany, May 23. |
| 2002. | "GIS tools for measuring space-time accessibility in transportation networks," |
| 2002. | Institute for Transportation Studies and Department of Urban and Regional |
| | Planning, University of California – Irvine, March 1. |
| 2001. | "GIS tools for measuring space-time accessibility in transportation networks," |
| 2001. | Institute for Infrastructure, Royal Institute of Technology, Stockholm, Sweden, |
| | December 4. |
| 2001. | "GIS tools for measuring space-time accessibility in transportation networks," |
| 2001. | Centre for Advanced Spatial Analysis (CASA), University College London (co- |
| | sponsored by CASA, Birkbeck College School of Geography and the U. K. |
| | Association for Geographic Information), September 3. |
| 2001. | "GIS tools for measuring space-time accessibility in transportation networks," |
| | University of Oregon (February 8) and Oregon State University (February 9), |
| | Association of American Geographers Visiting Geographic Scientist Program. |
| 2000. | "GIS tools for measuring space-time accessibility within transportation networks," |
| | Geographic Information Science and the Disciplines Lecture Series, Program for |
| | Spatial Analysis/GIS, University of Michigan, Ann Arbor, December 8. |
| 2000. | "Extending geographic representation in spatial analysis," Department of |
| | Geography, University of Hawaii, March 5. |
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| 1999. | "Measuring space-time accessibility within transportation networks," Department |
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| | of Geography, San Diego State University, October 15. |
| 1999. | "Measuring space-time accessibility within transportation networks," Center for |
| | Spatial Information Science, University of Tokyo, April 23. |
| 1997. | "Developing a GIS toolbox for solving complex location and layout problems," |
| | Department of Geography, Arizona State University, April 11. |
| 1997. | "GIS and logistics: How the new digital geography can change the way you do |
| | business," Council of Logistics Management, Salt Lake Roundtable, January 7. |
| 1996. | "GIS design for a simultaneous transportation equilibrium model," Annual |
| | Meeting of the Institute of Transportation Engineers, Utah Chapter, Salt Lake City, |
| | January 23. |
| 1996. | "GIS design for a simultaneous transportation equilibrium model," Department of |
| | Geography and Regional Development, University of Arizona, January 19. |
| 1995. | "A GIS-based simultaneous transportation equilibrium model," Department of |
| | Geography and Earth Resources, Utah State University, Logan, Utah, May 12. |
| 1993. | "Applications of geographic information systems in retail analysis," Department |
| | of Marketing, University of Utah, May 6. |

Invited Participation at Workshops and Research Symposia

| 2016. | PhD workshop, GIScience Doctoral College, University of Salzburg, Salzburg, |
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| 2016. | Austria, July 4. The Japan-US Round Table for Innovation and Collaboration in Super Smart |
| 2010. | Society, Embassy of Japan, Washington DC April 21. |
| 2014. | |
| | Big Data and Urban Informatics, Chicago, IL, August 11-12. |
| 2014. | Pre-AAG Workshop on Open GIS, Tampa, Florida, April 7. |
| 2013. | Social Issues in Computational Transportation Science, seminar 13512, Schloss |
| | Dagstuhl - Leibniz Center for Informatics, Wadern, Germany, December 16-19. |
| 2013. | "Big Data and the future of social science research," invited presentation, |
| | Workshop on Big Data, Institute for Population Research, The Ohio State |
| | University, May 9. |
| 2012. | Social Issues in Computational Transportation Science, seminar 022, National |
| | Institute of Informatics – Shonan Center, Japan, December 16-20. |
| 2010. | Representing, Analyzing and Visualizing Mobile Objects, seminar 10491, Schloss |
| | Dagstuhl - Leibniz Center for Informatics, Wadern, Germany, December 5-10. |
| 2010. | Computational Transportation Science, seminar 10121, Schloss Dagstuhl - |
| | Leibniz Center for Informatics, Wadern, Germany, March 21-26. |
| 2009. | Regional Science: The Next Fifty Years. A Symposium on the Occasion of the 50 th |
| | Anniversary of the Journal of Regional Science, Federal Reserve Bank of New |
| | York, New York City, NY, April 23-24. |
| 2008. | "Space-time measures of transportation network vulnerability," invited paper, |
| | Transportation Security Against Terrorism, NATO Advanced Research |
| | Workshop, hosted by Center of Excellence – Defense Against Terrorism, Ankara, |
| | Turkey, 5-6 May. |
| 2005. | Confidentiality Issues Arising from the Integration of Remotely Sensed and Self- |
| 2003. | |
| | Identifying Data, Committee on the Human Dimensions of Global Change, |
| | National Research Council, U.S. National Academies, Washington DC, December |
| | 9-10. |
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| 2005. | GPS and Time-Geography Applications for Activity Modeling and Microsimulation, Center for Spatially Integrated Social Sciences, University of |
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| | California – Santa Barbara, Santa Barbara, CA 10-11October. |
| 2004. | Information and Communication Technologies, Innovation and the Transport |
| | System, Sustainable Transport in Europe and Links and Liaisons with America |
| | (STELLA) network, Budapest, Hungary, April 22-23. |
| 2003. | "Travel chances and social exclusion," invited resource paper, 10 th International |
| | Conference on Travel Behavior Research, Lucerne, Switzerland, August 10-14. |
| 2002. | Geographic Dimensions of Terrorism, Association of American Geographers, |
| | Washington, DC, January 24-27. |
| 2002. | Information and Communication Technologies, Innovation and the Transport |
| | System, Sustainable Transport in Europe and Links and Liaisons with America |
| | (STELLA) and Sustainable Transportation Analysis and Research (STAR) |
| | research networks, Arlington, VA, January 15-17. |
| 2001. | Representing Space and Time in Digital Geography, Loughborough University, |
| | sponsored by Birkbeck College School of Geography and the (U.K.) Economic |
| | and Social Research Council. |
| 1999. | "GIS software for measuring space-time accessibility in transportation planning |
| | and analysis," invited paper, Geographic Information Systems for Transportation |
| | (GIS-T) and Intelligent Transportation Systems (ITS), The Chinese University of |
| | Hong Kong, Shatin, New Territories, Hong Kong, April 26-28. |
| 1999. | Geography in the 21 st Century, Association of American Geographers, |
| | Washington, DC, December 11-12. |
| 1999. | Applications of Remotely Sensed Data to Transportation, Center for Mapping, The |
| | Ohio State University, Columbus, OH, August 12-13. |
| 1999. | Geographic Information Science and Geospatial Activities at the NSF, National |
| | Science Foundation, Arlington, VA, January 14-15. |
| 1998. | Spatial Analysis: Status and Trends, Project Varenius, National Center for |
| | Geographic Information and Analysis (NCGIA), Santa Barbara, CA, December |
| | 10-12. |
| 1998. | "Measuring space-time accessibility benefits within transportation networks," |
| | invited paper, Symposium on Analytical Economic Geography and Regional |
| | Change, Storrs, CT, March 23-24. |
| 1995. | GIS and Disaggregate Individual and Behavioral Transportation Modeling, |
| | National Center for Geographic Information Analysis (NCGIA) I-10 Workshop |
| | on Santa Barbara, CA, June 7-8. |
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Media and Outreach.

| 2014. | Sustainable Transportation: Columbus and Beyond, public panel discussion, |
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| | Geography Graduate Organization, Faculty Club, The Ohio State University, |
| | March 27. |
| 2013. | "Utah's air quality alerts may have inadvertently put more cars on the road," |
| | Atlantic Cities, September 11. |
| 2013. | "Utah air alerts seem to spur — not curb — driving," Salt Lake Tribune, September |
| | 10. |
| 2010. | "The future of transportation," invited presentation, Leonardo After Hours, The |
| | Leonardo Science Center, Salt Lake City, Utah, June 8. |
| 2010. | A VerySpatial Podcast, Episode 250: Interview on time geography and temporal |
| | GIS, posted May 2, 2010. veryspatial.com |
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Guest Instruction

| 2011. | Erasmus Mundus Master in Geospatial Technologies, Institute for |
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| | Geoinformatics, University of Münster, Münster, Germany, June 20-26. |
| 2010. | Graduate seminar on mobility and time geography, Department of Geography, |
| | University of Zurich, Switzerland, December 13-15. |
| 2010. | Mobility, Data Mining and Privacy (MODAP) summer school, Rhodos, Greece, |
| | August 27 – September 1. |
| 2008. | NordGIScience workshop, University of Gävle, Sweden, August 17-21. |
| 2005. | GIScience Fall School, Institute for Geoinformatics, University of Münster, |
| | Münster, Germany, September. |

U.S. National Academies Policy Committees

| 2001 - 2003. | Spatial Information Infrastructure for Multi-Modal Transportation Systems, |
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| | Transportation Research Board, National Research Council. |
| 2000 - 2002. | Identifying Data Needs for Place-based Decision Making, Commission on |
| | Geosciences, Environment and Resources, National Research Council. |

Journal Special Issue Editorship

| 2014. | Rein | Ahas, | Miller | H.J. , | and | Frank | Witlox, | "Special | issue: | Mobility, |
|-------|------|-----------|----------|---------------|--------|---------|----------|-----------|----------|-----------|
| | comm | nunicatio | on and u | rban spa | ace,". | Iournal | of Urban | Technolog | y, 21 (2 |). |

Conference and Workshop Organization Organizer/Program Director

| Organizer/Program Di | irector |
|----------------------|--|
| 2014. | Co-organizer (with Piyushimita (Vonu) Thakuriah), workshop on Big Data and |
| | Open Data for Transportation Services and Public Engagement, 93 rd annual |
| | meeting of the Transportation Research Board, Washington, DC, January 12-16. |
| 2013. | Organizing committee (with Piyushimita (Vonu) Thakuriah (Chair), Nebiyou |
| | Tilahun (Co-Chair), Moira Zellner (Co-Chair) and Glenn Geers), workshop on Big |
| | Data and Urban Informatics: e-Infrastructure for Social Science Research on |
| | Sustainable Urban Systems, University of Illinois at Chicago, March 28-29. |
| 2013. | Co-organizer (with Piyushimita (Vonu) Thakuriah), workshop on Big Data |
| | Informatics: Innovations in Mining Structured and Unstructured Information for |
| | Mobility Decision Making, 92 nd annual meeting of the Transportation Research |
| | Board, Washington, DC, January 13-17. |
| 2011. | Co-organizer (with Timothy Nyerges), GIS for Livable and Sustainable |
| | Communities, Keck Center, U.S. National Academies, May 5-6 (sponsored by the |
| | U.S. Federal Highway Administration and the Transportation Research Board.) |
| 2010. | Co-organizer (with Piyushimita (Vonu) Thakuriah), workshop on Pervasive Data |
| | for Transportation: Innovations in Distributed and Mobile Information Discovery |
| | in Intelligent Transportation Systems and Location-Based Services, 90 th annual |
| | meeting of the Transportation Research Board, Washington, DC, January 23-27. |
| 2008. | General chair, GIScience 2008: Fifth International Conference, Park City, Utah, |
| | September 23-26. |
| 2007. | Organizer and chair, workshop on Advanced Research in Geospatial Information |
| | Technologies for Transportation, Keck Center, U.S. National Academies, |
| | |

| | Washington, DC, September 20-21; sponsored by the U.S. Federal Highway |
|--------------|--|
| | Administration and the Transportation Research Board. |
| 2006. | Program co-chair (with Andrew Frank and Michael Goodchild), GIScience 2006: |
| | Fourth International Conference, Münster, Germany, September 20-23. |
| 2005. | Organizer and Chair, Societies and Cities in the Age of Instant Access, research |
| | symposium, University of Utah, Salt Lake City, UT, November 10-12. |
| 2004. | Program co-chair (with Max Egenhofer and Christian Freska) GIScience 2004: |
| | Third International Conference, Adelphi, MD, October 20-23. |
| 2003. | Co-organizer (with Barbara Buttenfield and Lynn Usery), Geospatial |
| | Visualization and Knowledge Discovery Workshop, sponsored by the University |
| | Consortium for Geographic Information Science, United States Geological Survey |
| | and the Advanced Research and Development Activity center, Lansdowne, VA, |
| | November 17-20. |
| 1998 – 1999. | Co-leader (with Jiawei Han), Discovering Geographic Knowledge in Data-rich |
| | Environments, Research Initiative, Project Varenius, National Center for |
| | Geographic Information and Analysis (NCGIA). |
| 1998. | Conference co-director (with George Hepner), University Consortium for |
| | Geographic Information Science (UCGIS) Summer Assembly, Park City, UT, June |
| | 23-27. |
| 1994. | Program director, Annual Meeting of the Great Plains/Rocky Mountains Division |
| | of the Association of American Geographers, Salt Lake City, Utah, October 13- |
| | 15. |

Steering/Program/Scientific Committees

| 2018. | 14th International Conference on Location-Based Services, Zurich, Switzerland, 15-17 January. |
|-------|--|
| 2016. | Analysis of Movement Data (AMD2016), Montreal, Canada, 27 September. |
| 2016. | Workshop on Visually-supported Computational Movement Analysis, Helsinki, Finland, June 14. |
| 2016. | GIScience 2016: 9 th International Conference on Geographic Information Science, Montreal, Canada, September 27-30. |
| 2016. | Mobile Tartu 2016: Mobile Data, Geography, LBS, Tartu, Estonia, June 29 - July 1. |
| 2015. | International Workshop on Computational Transportation Science (IWCT) 2015, Seattle, Washington, November 3. |
| 2015. | LBS 2015: 12 th Symposium on Location-based Services, September 16-18, Augsburg (Germany). |
| 2015. | AAG 2015 Symposium on CyberGIS for Fostering New Frontiers of Geographic Research and Education, April 21-25, Chicago, IL. |
| 2015. | International Workshop on Spatiotemporal Computing, July 13-15, George Mason University (GMU), Fairfax, Virginia, USA |
| 2015. | International Conference on Location-based Social Media, Athens, Georgia, March 5-7. |
| 2015. | Second International Conference on Spatial Data Mining and Geographical Knowledge Services (ICSDM) 2015, July 8-10, Fuzhou, China. |
| 2014. | 7th ACM SIGSPATIAL International Workshop on Computational Transportation Science, Dallas, Texas, November 4. |
| 2014. | <i>GIScience</i> 2014: 8 th International Conference on Geographic Information Science, Vienna, Austria, September 23-26. |

| 2014. | Mobile Tartu: Mobile Data, Geography, LBS, Tartu, Estonia, 1-3 July. |
|-------|---|
| 2013. | 6th ACM SIGSPATIAL International Workshop on Computational Transportation |
| | Science, Orlando, Florida, November 5. |
| 2013. | GIS Ostrava 2013: Geoinformatics for City Transformations, Ostrava, Czech |
| | Republic, January 21-23. |
| 2013. | Mobile Ghent 2013, Ghent, Belgium, October 24-25. |
| 2013. | Conference on Spatial Information Theory 2013 (COSIT), Scarborough, UK, |
| | September 3-5. |
| 2012. | Fifth International Workshop on Computational Transportation Science (IWCTS |
| | 2012), Redondo Beach, CA, November 6. |
| 2012. | LBS 2012: 9th Symposium on Location-based Services, Munich, Germany, October |
| | 16-18. |
| 2012. | GIScience 2012: 7 th International Conference on Geographic Information |
| | Science, Columbus, Ohio, September 18-21. |
| 2012. | Time-Geographic Information Science: A workshop on Time-Geography, in |
| | conjunction with GIScience 2012, Columbus, Ohio, September 18. |
| 2012. | Mobile Tartu 2012: Mobile Phones, Geography and Location-based Services, |
| | Tartu, Estonia, August 22-25. |
| 2011. | 4th ICA Workshop on Geospatial Analysis and Modeling, Vancouver, B.C., |
| | Canada, August 10-12. |
| 2011. | Geoinformatics 2011: 19th International Conference on Geoinformatics |
| | Shanghai, China. June 24-26. |
| 2011. | International Conference on Spatial Data Mining and Geographical Knowledge |
| | Services (ICSDM), Fuzhou city, China, June 29 – July 1. |
| 2011. | STGIS 2011: International Conference on Spatial Thinking and GIS, Tokyo, |
| | Japan, September 14-16. |
| 2011. | Worldwide Symposium on Transport and Land Use Research (WSTLUR). |
| | Whistler, BC, July 28-30. |
| 2010. | 1 st ACM SIGSPATIAL International Workshop on Data Mining for |
| | Geoinformatics (DMGI), San Jose, California, November 2. |
| 2009. | International Workshop on Geographic Information Systems for Transportation |
| | (GIS-T), Wuhan, China, December 4-6. |
| 2009. | Second International Workshop on Computational Transportation Science, |
| | Seattle, Washington, November 3. |
| 2009. | Conference on Spatial Information Theory, Aber Wrac'h, France, September 21- |
| | 25. |
| 2008. | First International Workshop on Computational Transportation Science, Trinity |
| | College, Dublin, Ireland, July 21. |
| 2008. | GI Days Münster, Germany, June 16-17. |
| 2008. | 16 th International Conference on Geoinformatics and Joint Conference on GIS and |
| | Built Environment, Guangzhou, China, June 28-30. |
| 2007. | GI Days: Young Researcher Forum, Münster, Germany, September 9-12. |
| 2007. | Conference on Spatial Information Theory, Mt Eliza, Melbourne, Australia, |
| | September 20-23. |
| 2002. | Workshop on Action-oriented Approaches in Geographic Information Science, |
| | Bar Harbor, ME, November 2-4. |
| 2002. | GIScience2002, Boulder, Colorado, September 26-28. |
| 2002. | Workshop on Multimodal Transportation Requirements for Spatial Information |
| | Infrastructure, Transportation Research Board, National Research Council. |
| | |

| 2001. | Specialist Meeting on Location-Based Services, co-sponsored by the Center for |
|--------------|--|
| | Spatially Integrated Social Science and the University Consortium for Geographic |
| | Information Science, Santa Barbara, CA, December 14-15. |
| 2001. | Conference on Spatial Information Theory (COSIT 2001), September 19-23, |
| | Morro Bay, California, USA. |
| 2000. | GIScience2000, Savannah, Georgia, October 28-31. |
| 2000. | International Workshop on Temporal, Spatial and Spatio-Temporal Data Mining |
| | - TSDM2000, Lyon, France, September 12-16. |
| 2000. | Spatial Data Handling 2000, Beijing, China |
| 1997 – 1998. | Measuring and Representing Accessibility in the Information Age, Research |
| | Initiative, Project Varenius, National Center for Geographic Information and |
| | Analysis (NCGIA). |
| 1993 - 1999. | Western Regional Science Association, annual meetings. |
| | |

Presentations at Professional Conferences

Attached as an appendix

GRANTS AND CONTRACTS Extramural

| Extramural | |
|--------------|--|
| 2016 - 2018. | Bohrer G., Miller H.J. (PI) and Miller J.A., "Conferences: Advancing movement |
| | and mobility science by bridging research on human mobility and animal movement |
| | ecology," (BCS 1560727) National Science Foundation; \$69,999. |
| 2015 – 2017. | Miller H.J. (PI) and O'Kelly M.E., "Estimating external travel using purchased third |
| | party data" (PID 97397), Ohio Department of Transportation, \$631,662. |
| 2013 - 2017. | Cashden E.A. (PI), Creem-Regehr S., Miller H.J. and Stefanucci J., "Age changes |
| | and sex differences in spatial cognition: Testing the role of mobility in three non- |
| | industrial societies and the US" (SMA 1329091), National Science Foundation, |
| | \$999,871 (Ohio State subaward: \$19,853). |
| 2013 - 2015. | Farber S. (PI), Miller H.J. and O'Kelly M.E. "Collaborative Research: Interaction |
| | potential and the social and economic vibrancy of metropolitan regions" (BCS |
| | 1339574), National Science Foundation; \$160,230 (Ohio State award: \$41,015). |
| 2012 - 2016. | Bartholomew K., Miller H.J. (PI) and Zhou X., "Green accessibility: Measuring the |
| | environmental costs of space-time prisms in sustainable transportation planning" |
| | (BCS 1224102), National Science Foundation; \$416,738. |
| 2011 - 2016. | Brown B.B. (PI), Miller H.J., Smith K.R. and Werner C.M., "Complete the streets |
| | 3 ways: Effects on Activity and BMI" (1R01CA157509-01), National Cancer |
| | Institute, National Institutes of Health; \$2,900,000 (Ohio State subaward: \$90,345). |
| | |

| 2000 - 2004. | Cova T.J., Forster R.R., Hepner G.F. (PI) and Miller H.J., "National Consortia for |
|--------------|--|
| | Remote Sensing in Transportation: Disaster, Accidents, Safety and Hazards |
| | Consortium (NCRST-DASH)," U.S. Department of Transportation, in response to |
| | DTRS56-00-BAA-004. Consortium consisting of University of New Mexico, |
| | George Washington University, Oak Ridge National Laboratory and University of |
| | Utah; \$678,261 |
| 1997. | Miller H.J., "Dynamic congestion analysis module for the Strategic Flow Analysis |
| | System (STAFLO) GIS software package," Military Traffic Management Command |
| | - Transportation Engineering Agency through the Transportation Center at the |
| | University of Tennessee; \$40,714. |
| 1994 - 1995. | Miller H.J., "Spatial search and spatial competition," National Science Foundation |
| | (SBR-9320126), \$43,882. |
| 1991 - 1995. | Hepner G.F. (PI), Kontuly T.M., McCoy R. and Miller H.J., "GIS development for |
| | U.S./Mexico border environmental problems," U.S. Environmental Protection |
| | Agency; \$61,000 (1991), \$84,000 (1992), \$90,000 (1993), \$144,700 (1994) and |
| | \$130,000 (1995). |
| T / T | |
| Intramural | |
| 2002. | "DIGIT lab geographic visualization platform and supporting input/output |
| | hardware," Research Instrumentation Fund, Vice President for Research, |
| 1000 | University of Utah, \$20,825. |
| 1999. | "Server upgrades and graphic workstation for geographic visualization," |
| | Research Instrumentation Fund, Vice President for Research, University of Utah, |
| | \$45,800. |

for Research, University of Utah, \$53,100.

"GIScience research data server," Research Instrumentation Fund, Vice President

"DIGIT Lab workstations for spatial data processing," Research Instrumentation

"DIGIT Lab High-end Graphics Workstations," Research Instrumentation Fund,

"Department of Geography file server upgrade and cartographic output device,"

Research Instrumentation Fund, Vice President for Research, University of Utah,

Fund, Vice President for Research, University of Utah, \$47,640.

Vice President for Research, University of Utah, \$32,016.

SERVICE

1998.

1997.

1996.

1995.

Professional Service

\$30,300

| 2016. | Social Sciences and Humanities proposal evaluation panel, European Research |
|--------------|--|
| | Council. |
| 2014 – 2015. | Geography and Spatial Sciences proposal evaluation panel, National Science |
| | Foundation. |
| 2009. | Committee of Visitors, Behavioral and Cognitive Sciences Directorate, National |
| | Science Foundation. |
| 2000 - 2003. | Long Range Planning Committee, Association of American Geographers |
| 1998 – 2000. | Geographic Information Science Model Curriculum Committee, University |
| | Consortium for Geographic Information Science. |
| 1998. | Working Group on Technical GIS Education, Environmental Systems Research |
| | Institute (ESRI). |
| | |

1996 – 1998. Education Committee, University Consortium for Geographic Information Science.

Community Service

| 2003. | UrbanSim Scenario Review Committee, Governor's Office of Planning and |
|--------------|---|
| | Budget, State of Utah. |
| 2001 - 2002. | Review committee, Utah Process Economic and Demographic (UPED) model |
| | review, Governor's Office of Planning and Budget, State of Utah. |
| 1994. | Expert Panel, Salt Lake County Council of Governments Public Hearing on |
| | Transit Technology Alternatives, Salt Lake City, Utah, September 20-22. |

University Service

The Ohio State University

2015 – present. Urban Mission Committee, Office of Academic Affairs.

University of Utah

| <u>Oniversity of Otun</u> | |
|---------------------------|---|
| 2012 - 2015. | Academic Senate, University of Utah. |
| 2010. | Innovations Scholars steering committee, Vice President Tech Venture |
| | Development, University of Utah. |
| 2000 - 2001. | Information Technology task force, Office of Undergraduate Studies, University of Utah. |
| 1996 – 1999. | University Research Committee, Office of the Vice-president for Academic |
| | Affairs, University of Utah. |
| 1998. | Chair, Graduate Research Fellowship Committee, Graduate School, University of |
| | Utah. |
| 1997 – 2000. | Faculty Advisory Board, Center for High Performance Computing, University of |
| | Utah. |
| 1997 – 1998. | Graduate Research Fellowship Committee, Graduate School, University of Utah. |
| | |
| 1996 – 1998. | Task Force on Large Data/Statistical High Performance Computing, High |
| | Performance Computing Center, University of Utah. |
| 1994 – 1995. | Ad Hoc Committee on High Performance Computing, University of Utah. |
| 1992 – 1995 | Academic Senate, University of Utah. |
| 1992 – 1993. | University Environmental Affairs Committee, University of Utah |
| | • |

College Service

| The Ohio State University | | |
|---------------------------|---|--|
| 2017. | Distinguished College Professor Committee, Colle of Arts and Sciences. | |
| University of Utah | | |
| 2000 - 2004. | Chair, College Computing Advisory Committee, College of Social and Behavioral | |
| | Science. | |
| 1995 - 1996. | Research Committee, College of Social and Behavioral Science. | |
| 1994 - 1995. | Superior Teaching Award Committee, College of Social and Behavioral Science. | |
| 1991 - 1993. | Superior Research Award Committee, College of Social and Behavioral Science. | |

Departmental Service

The Ohio State University

2016 – present. Graduate Studies Committee.

| 2015 – 2016. | Executive committee. |
|-----------------|------------------------------------|
| 2014 - present. | Personnel committee. |
| 2014 - 2015. | Chair, Graduate Studies Committee. |

University of Utah

| 2001 - 2004. | Graduate Director. |
|--------------|--|
| 1999 - 2001. | Director, Certificate in Geographic Information Science program. |
| 1992 - 2001. | Chair, Geographic Information Science Committee. |

EDUCATION

Chaired Ph.D. committees

| The Ohio State L | Jniversity |
|------------------|--|
| In progress. | Jinhyung Lee, TBD. |
| In progress. | Young Jaegal, TBD. |
| 2016. | Calvin P. Tribby, "Activity spaces, trajectories, and agents: Assessing the built environment effects on walking routes." |
| 2015. | Ying Song, "A greener time geography: Estimating the environmental costs of space-time prisms for sustainable transportation planning" |

University of Utah

| 2011. | Tetsuo Kobayashi, "An interactive visualization toolkit for mobile objects." |
|-------|--|
| 2010. | Christopher Upchurch, "Dynamic accessibility analysis using space-time paths for |
| | public and private transportation" |
| 2008. | Adam Sobek, "Generating synthetic space-time paths using a cloning algorithm |
| | on activity behavior data." |
| 2007. | Phoebe McNeally, "Holistic geographical visualization of spatial data with |
| | applications in avalanche forecasting" |
| 2005. | Nobbir Ahmed, "Time-space transformations of geographic space to explore, |
| | analyze and communicate transportation systems" |
| 2003. | Yi-Hwa Wu, "Dynamic models of space-time accessibility." |
| | |

Membership on Ph.D. committees <u>The Ohio State University</u>

| 2016. | Bo Zhao, Geography. |
|-------|-------------------------|
| 2017. | Yongha Park, Geography. |

University of Utah

| 2011. | Tao Xing, Civil and Environmental Engineering. |
|-------|---|
| 2010. | Mingxi Li, Civil and Environmental Engineering. |
| 2009. | Bradley Dearden, Geography. |
| 2009. | Margarita Bratkova, Computer science. |
| 2009. | Richard Medina, Geography |
| 2005. | Genevieve Atwood, Geography. |
| 2001. | William Scott White, Geography. |
| 2000. | Xiotian He, Geography. |
| 1998. | Joseph Perrin, Civil Engineering. |
| 1998. | Mark Finco, Geography. |
| 1997. | Siriphan Jitprasithsiri, Civil Engineering. |
| 1993. | Don Card, Geography. |
| | |

Other universities (external member)

Monireh Mahmoudi, School of Sustainable Engineering and the Built Environment, Arizona State University.

Chaired Master's committees

2017.

University of Utah 2011. Joshua Groeneveld, "Agent-based modeling of bicycle-light rain interactions in Salt Lake City." 2009. Ying Song, "Space-time visualization of dynamic traffic data." 2007. Tina Gillman, "Evaluating transportation alternatives using a time geographic accessibility measure." 2004. Scott A. Bridwell, "Space-time masking techniques for privacy protection in location-based services" 2004. Adam Sobek, "Access-U: A web-based navigation tool for disabled students at the University of Utah.". 2001. Phoebe McNeally, "Avalanche slide path stability modeling." Bertrand Granberg, "Automated routing and truck permitting system for Utah 2001. Department of Transportation". 2000. Mathew Sheehan, "Networked multimedia GIS: A framework for creation of an interactive internet application". 1999. James Hofmann, "A GIS data browser for economic development and location decisions". 1999. Jeni Siebeneck, "Spatial interaction-based trade area delimitation using GIS." 1998. George J. LaBonty, "Improving accessibility of public health care facilities." John Lowry, "GIS modeling of hazardous material vulnerability at the U.S.-1995. Mexico border."

Membership on Master's committees

The Ohio State University

| In progress | Chengbi Liu, Geography. |
|--------------|----------------------------|
| In progress. | Meghan McHaney, Geography. |
| 2017. | Zhiqi Yu, Geography. |
| 2015. | Peixuan Jiang, Geography. |

University of Utah

| 2010. | James Somerville, Masters of Science and Technology |
|-------|---|
| 2010. | Marquessa Van Drimmelen, Geography. |
| 2009. | Jennifer Christiansen, Geography. |
| 2007. | Edward Pultar, Geography. |
| 2007. | Justin Johnson, Geography. |
| 2006. | Aaron McDaniel, Geography |
| 2005. | Atsushi Nara, Geography. |
| 2004. | We-Lun Chang, Geography. |
| 2000. | Tamara Wambeam, Geography. |
| 1997. | Eric Swartling, Geography. |
| 1996. | Sean Cannon, Geography. |
| 1995. | Natalie Andersen, Geography. |
| | |

| 1994. | Joseph Borgione, Geography. |
|-------|-------------------------------|
| 1995. | Patrick Barickman, Geography. |
| 1994. | Kathleen McMullen, Geography. |

Other Student Supervision

University of Utah

2012 - 2013. Mentor, Innovation Scholars Program; Kyle Borens, topic – autonomous, networked vehicles and the future of transportation.

External Thesis Examinations

| External Thesis Exar | milations |
|----------------------|--|
| 2017. | Dissertation examiner, Michael van Eggermond, Institute for Transport Planning |
| | and Systems, ETH-Zurich, Zurich, Switzerland. |
| 2014. | Dissertation examiner, Arieh Schlote, Hamilton Institute, National University |
| | Ireland – Maynooth. |
| 2011. | Dissertation examiner, Somayeh Dodge, Department of Geography, University of |
| | Zurich, Switzerland. |
| 2011. | Dissertation examiner, Rebecca Ong, Department of Information, University of |
| | Pisa, Italy. |
| 2010. | Dissertation examiner, Dominik Papinski, School of Geography and Geology, |
| | McMaster University, Canada. |
| 2010 | PhD reading committee and jury, Tijs Neutens, Department of Geography, Ghent |
| | University, Ghent, Belgium. |
| 2009. | PhD jury, Walied Othman, Department of Theoretical Computer Science, Hasselt |
| | University, Belgium. |
| 2004. | Dissertation examiner, Ronald Buliung, School of Geography and Geology, |
| | McMaster University, Canada. |
| 2003. | Habilitation thesis examiner, Hardy Pundt, Faculty of Geosciences, University of |
| | Münster, Germany. |
| 2002. | Dissertation examiner, Ickjai Lee, School of Electrical Engineering and Computer |
| | Science, The University of Newcastle, Callaghan, Australia. |
| 2001. | Dissertation opponent, Svante Berglund Department of Infrastructure and |
| | Planning, Royal Institute of Technology, Stockholm, Sweden. |
| | |

Teaching (The Ohio State University)

| Term | Course number and title | Enrollment | SEI^1 |
|-------------|--|------------|---------|
| Autumn 2016 | GEOG 5226 Spatial Simulation and Modeling in GIS | 50 | 4.6 |
| Spring 2016 | GEOG 5212 Geospatial Databases for GIS | 49 | 4.4 |
| Autumn 2015 | GEOG 5226 Spatial Simulation and Modeling in GIS | 50 | 4.5 |
| Spring 2015 | GEOG 5223 GIS Design and Implementation | 48 | 4.5 |
| Autumn 2014 | GEOG 5221 GIS Simulation and Modeling | 40 | 4.6 |
| Spring 2014 | GEOG 3597.03 Environmental Citizenship | 12 | 3.5 |
| | GEOG 5223 GIS Design and Implementation | 26 | 4.5 |
| Autumn 2013 | GEOG 5224 Emerging Topics in GIS | 16 | 5.0 |

¹Student Evaluation of Instruction. 1 = low; 5 = high. Reported score is overall mean

APPENDIX: Presentations at Professional Conferences

| Papers Papers | |
|---------------|--|
| 2017. | Lee, J. and Miller, H.J., "Measuring changes in space-time accessibility before and after transportation innovations," <i>American Association of Geographers</i> , |
| | Boston, MA, April 4-9 (presented by first author). |
| 2017. | Jaegal, Y. and Miller, H.J., "Similarity measures for network time prisms," <i>American Association of Geographers</i> , Boston, MA, April 4-9 (presented by first |
| | author). |
| 2017. | Miller, H.J., Song, Y., Zhou, X. and Stempihar, J. "Green accessibility: |
| | Estimating the environmental costs of network-time prisms for sustainable |
| | transportation planning," Transportation Research Board, Washington DC, |
| | January 8-12 (poster). |
| 2017. | Tribby, C.P., Miller, H.J., Brown, B.B., Smith, K.R. and Werner, C.M. |
| | "Comparing the appropriate geographic region for assessing built environmental |
| | correlates with walking trips using longitudinal data," Transportation Research |
| | Board, Washington DC, January 8-12 (presented by first author). |
| 2017. | Proffitt, D., Bartholomew, K., Ewing, R. and Miller, H.J., "Accessibility planning |
| | and vehicle miles traveled: Preliminary analysis," <i>Transportation Research Board</i> , |
| 0016 | Washington DC, January 8-12 (poster). |
| 2016. | Song Y., Miller H. J., Zhou, X., and Stempihar, J. "Visual exploration of |
| | movement patterns and physics under prism constraints," North American |
| | <i>Meetings of the Regional Science Association International</i> , Minneapolis, MN, Nov. 9-12 (presented by first author). |
| 2016. | Jaegal Y. and Miller H.J., "Similarity measures for network time prisms," |
| 2010. | <i>GIScience 2016</i> , Montreal, Canada, September 27 – 30 (presented by first author). |
| 2016. | Miller H.J., Raubal M. and Jaegal Y., "Measuring space-time prism similarity |
| | through temporal profile curves," AGILE International Conference on Geographic |
| | Information Science, Helsinki, Finland, June 14-17. |
| 2016. | Miller H.J., Raubal M. and Jaegal Y., "Measuring space-time prism similarity via |
| | temporal profile curves," Association of American Geographers, San Francisco, |
| | CA, March 29 – April 2. |
| 2016. | Song Y., Miller H.J., Zhou X., Stempihar J. and Reinau K.H., "Visual exploration |
| | of movement patterns under prism constraints," Association of American |
| 2016 | <i>Geographers</i> , San Francisco, CA, March 29 – April 2 (presented by first author). |
| 2016. | Fontanella S. and Miller H.J. , "A beginners's toolbox for automated spatial data |
| | collection," <i>Association of American Geographers</i> , San Francisco, CA, March 29 – April 2 (presented by first author). |
| 2016. | Tribby C.P., Miller H.J. , Brown B.B., Smith K.R. and Werner C.M., "Changes in |
| 2010. | neighborhood walking: Comparison between self-defined neighborhoods and |
| | activity spaces," Association of American Geographers, San Francisco, CA, March |
| | 29 – April 2 (presented by first author). |
| 2016. | Farber S., O'Kelly M.E., Miller H.J. and Neutens T., "Measuring segregation |
| | using patterns of daily travel behavior: Social interaction-based model of |
| | exposure," Transportation Research Board, Washington DC, January 10-14 |
| | (poster). |
| 2015. | Song Y., Miller H.J., Zhou X., "Estimating the speed-related costs of network- |
| | time prisms with applications in emissions modeling and air quality," Association |
| 2015 | of American Geographers, Chicago, IL, April 21-25 (presented by first author). |
| 2015. | Miller H.J., Tribby C.P., Brown B.B., Smith K.R., Carol Werner, Wolf J., Wilson |

| | L. and Oliveira M.G.S., "Does public transit generate new physical activity? Evidence from individual GPS and accelerometer data before and after light rail construction in a neighborhood of Salt Lake City, Utah, USA," <i>Association of American Geographers</i> , Chicago, IL, April 21-25. |
|-------|---|
| 2015. | Tribby C.P., Miller H.J. , Brown B.B., Smith K.R. and Werner C.M., "Analyzing built environment influences on walking route choice through machine learning and discrete choice techniques," <i>Association of American Geographers</i> , Chicago, IL, April 21-25 (presented by first author). |
| 2015. | Farber S., Miller H.J. , O'Kelly M.E. and Neutens T., "Measuring segregation using patterns of daily travel behavior: a social interaction based model of exposure," <i>Association of American Geographers</i> , Chicago, IL, April 21-25 (presented by first author). |
| 2015. | Miller H.J. , Tribby C.P., Brown B.B., Smith K.R., Werner C.M., Wolf J., Wilson L. and Oliveira M.G.S. "Does Public Transit Generate New Physical Activity? Evidence from Individual GPS and Accelerometer Data Before and After Light Rail Construction in a Neighborhood of Salt Lake City, Utah, USA," <i>Moving Active Transportation to Higher Ground: Opportunities for Accelerating the Assessment of Health Impacts</i> , Washington, DC, April 13-14. |
| 2015. | Song Y., Miller H.J. and Zhou X. "Modeling visit probabilities within network time prisms using continuous-time semi-Markov techniques," <i>Transportation Research Board</i> , Washington, DC, January 11-15 (poster). |
| 2015. | Proffitt D.G., Bartholomew K., Ewing R, and Miller H.J. "Accessibility planning in American metropolitan areas: Are we there yet?" <i>Transportation Research Board</i> , Washington, DC, January 11-15 (poster). |
| 2015. | Tong L., Zhou X. and Miller H.J. , "Improving accessibility for individual travelers through network design models," <i>Transportation Research Board</i> , Washington, DC, January 11-15 (poster). |
| 2014. | Song Y., Miller H.J. and Zhou X. "Modeling visit probabilities within network time prisms using Markov techniques," <i>GIScience 2014</i> , Vienna, Austria, September 23-26 (presented by second author). |
| 2014. | Tribby C.P., Miller H.J. , Brown B.B. and Werner C.M., "Assessing built environment walkability within activity spaces," <i>World Symposium on Land-use</i> <i>Transportation Research (WSTLUR)</i> , Delft, The Netherlands, June 24-27 (presented by first author). |
| 2014. | Song Y., Miller H.J. and Zhou X., "Simulating visit probabilities within network time prisms using Markov chains and truncated Brownian bridges," <i>Association of American Geographers</i> , Tampa, Florida, April 8-12 (presented by first author). |
| 2014. | Tribby C.P. and Miller H.J. , "Assessing built environment walkability within individual activity spaces," <i>Association of American Geographers</i> , Tampa, Florida, April 8-12 (presented by first author). |
| 2013. | Song Y. and Miller H.J. "Simulating and validating visit probabilities within network-based space-time prisms," <i>Mobile Ghent 2013</i> , Ghent, Belgium, October 23-25 (presented by first author). |
| 2013. | Tribby C.P. and Miller H.J. , "Assessment of trip-specific walkability: A Comparison of activity space metrics," <i>Association of American Geographers</i> , Los Angeles, California, April 9-13 (presented by second author). |
| 2013. | Brown B.B., Miller H.J. , Smith K.R., Tribby C.P. and Werner C.M., "The Moving Across Places Study (MAPS): Analyzing the time, place and context for active transportation behavior using |

| | geospatial science and technologies," <i>Association of American Geographers</i> , Los Angeles, California, April 9-13 (presented by second author). |
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| 2013. | Song Y. and Miller H.J., "Modeling visit probabilities |
| 2013. | |
| | within network-based space-time prisms," Association of American Geographers, |
| | Los Angeles, California, April 9-13 (presented by first author). |
| 2012. | Song Y. and Miller H.J., "Modeling visit probabilities within space-time prisms |
| | using directed random walk and truncated Brownian Bridges," GIScience 2012, |
| | Columbus, Ohio, 18-21 September. |
| 2012. | Skupin A. and Miller H.J., "Nokia MDC Atlas: An exploration of mobile phone |
| | users, land cover, time, and space," Mobile Data Challenge workshop, in |
| | conjunction with <i>Pervasive 2012</i> " Tenth International Conference on Pervasive |
| | <i>Computing</i> , Newcastle, UK, 18-19 June (presented by second author). |
| 2011 | |
| 2011. | Kuijpers B., Miller H.J. and Othman W., "Kinetic space-time prisms," |
| | Association of American Geographers, New York City, NY, 24-28 February |
| | (presented by second author). |
| 2011. | Tribby C.P. and Miller H.J. "Objective measures of walkability: Scaling-up |
| | block-level measures to routes and activity spaces," Association of American |
| | Geographers, New York City, NY, 24-28 February (presented by first author). |
| 2011. | Kobayashi T. and Miller H.J., "Similarity measures of space-time prisms," |
| | Association of American Geographers, New York City, NY, 24-28 February |
| | (presented by first author). |
| 2011. | Song Y. and Miller H.J., "Visit probabilities in space-time prisms," Association |
| 2011. | |
| | of American Geographers, New York City, NY, 24-28 February (presented by first |
| | author). |
| 2011. | Kuijpers B., Miller H.J. and Othman W., "Kinetic space-time prisms," ACM |
| | SIGSPATIAL GIS '11, November 1-4. Chicago, IL, USA (presented by third |
| | author). |
| 2011. | Miller H.J., Witlox F. and Tribby C.P., "Context-aware indicators for measuring |
| | transportation-related livability and sustainability," Association of American |
| | Geographers, Seattle, Washington, April 12-16. |
| 2011. | Song Y. and Miller H.J., "The expected cost of space-time prisms," Association |
| 2011. | of American Geographers, Seattle, Washington, April 12-16 (presented by first |
| | author). |
| 2011 | |
| 2011. | Kobayashi T., Ostanin A. and Miller H.J., " Exploratory visual pattern detection |
| | of mobile object data in attribute-time space," Association of American |
| | Geographers, Seattle, Washington, April 12-16 (presented by first author). |
| 2010. | Miller H.J., Kobayashi T. and Othman W., "Error propagation in space-time |
| | prisms," Accuracy 2010: Ninth International Symposium on Spatial Accuracy |
| | Assessment in the Natural Resources and Environmental Sciences, Leicester, U.K., |
| | July 20-23. |
| 2010. | Song Y. and Miller H.J., "Exploratory space-time visualization of transportation |
| 2010. | flows using traffic cubes," Association of American Geographers, Washington, |
| | DC, April 13-18 (presented by first author). |
| 2010 | |
| 2010. | Kobayashi T. and Miller H.J., "Exploratory visualization of mobile object data in |
| | attribute-time space," Association of American Geographers, Washington, DC, |
| | April 13-18 (presented by first author). |
| 2010. | Upchurch C. and Miller H.J., "Optimizing facility location and operating hours |
| | using space-time prisms," Association of American Geographers, Washington, |
| | DC, April 13-18 (presented by first author). |

| 2010. | Kobayashi T., Miller H.J. , and Othman W., "Analytical methods for error propagation in planar space-time prisms, <i>Western Regional Science Association</i> , Sedona, AZ, February 21-14 (presented by second author). |
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| 2009. | Miller H.J. , "Measuring accessibility in complex travel environments using time geographic fields, <i>Utah Geographic Information Council</i> , Midway, Utah, April 13-17. |
| 2009. | Miller H.J. , Kobayashi T. and Othman W., "Error in space-time prisms and their intersections," <i>Association of American Geographers</i> , Las Vegas, Nevada, March 22-27. |
| 2009. | Kobayashi T. and Miller H.J. , "An interactive visualization tool for mobile objects," <i>Association of American Geographers</i> , Las Vegas, Nevada, March 22-27 (presented by first author). |
| 2008. | Miller H.J., "Error and uncertainty in time geographic queries," Association of American Geographers, Boston, MA, April 15-19. |
| 2008. | Upchurch C. and Miller H.J. , "Dynamic accessibility using space-time paths for public and private transit," <i>Association of American Geographers</i> , Boston, MA, April 15-19 (presented by first author). |
| 2008. | Kobayashi T. and Miller H.J. , "An interactive visualization tool for mobile objects," <i>Association of American Geographers</i> , Boston, MA, April 15-19 (presented by first author). |
| 2008. | Neutens T., Schwanen T. and Miller H.J. , "Measuring meeting possibilities," <i>Association of American Geographers</i> , Boston, MA, April 15-19 (presented by first author). |
| 2007. | Miller H.J. and Bridwell S.A., "Time geographic fields: A general velocity theory for time geography," <i>GeoComputation 07</i> , Maynooth, Ireland, 3-5 September. |
| 2007 | Miller H.J. "Time geographic fields: A continuous velocity theory for time geography," Association of American Geographers, San Francisco, CA, April 17-21. |
| 2007. | Bridwell S.A. and Miller H.J. (presented by first author) "Disclosure limitation methods for activity-travel data," <i>Association of American Geographers</i> , San Francisco, CA, April 17-21 |
| 2007. | Sobek A. and Miller H.J. (presented by first author) "Methods for comparing space-time paths," <i>Association of American Geographers</i> , San Francisco, CA, April 17-21. |
| 2007. | Upchurch C. and Miller H.J. (presented by first author) "Optimum Facility Location and Scheduling Using Space-Time Prisms," <i>Association of American Geographers</i> , San Francisco, CA, April 17-21. |
| 2006. | McNeally P.B. and Miller H.J. (presented by first author), "Holistic geographic visualization of spatial data with applications in avalanche stability monitoring," <i>Association of American Geographers</i> , Chicago, IL March 7-11. |
| 2006. | Bridwell S.A. and Miller H.J. (presented by first author), "Representation and analysis of activities with varying discretion," <i>Association of American Geographers</i> , Chicago, IL March 7-11. |
| 2005. | Sobek A. and Miller H.J. (presented by first author), "A solution to exclusion: A web-based spatial decision support system for routing pedestrians of differing abilities in built environments," <i>Association of American Geographers</i> , Denver CO, April 5-9. |
| 2005. | Bridwell S.A. and Miller H.J. (presented by first author), "Locational privacy metrics for mobile objects," <i>Association of American Geographers</i> , Denver CO, |

| | April 5-9. |
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| 2004. | Miller H.J., "Necessary space-time conditions for social interaction," Association |
| | of American Geographers, Philadelphia, PA, March 14-19. |
| 2004. | Miller H.J., "A measurement theory for time geography," Western Regional |
| | Science Association, Maui, Hawai'i, February 25-28. |
| 2003. | Miller H.J., Wu YH. and Ming-Chih Hung, "A GIS toolkit for assessing |
| | vulnerability transportation network disruption," Association of American |
| | Geographers, New Orleans, LA, March 5-8. |
| 2002. | Miller H.J., "Accessibility and uncertainty: Space-time paths and prisms under |
| | perfect and imperfect information," GIScience 2002, Boulder, CO, September 25- |
| 2002 | 29. |
| 2002. | Miller H.J., "Accessibility and uncertainty: Space time paths and prisms under imperfect information." Accessibility of American Cocorrent and Los Appeles. CA |
| | imperfect information," Association of American Geographers, Los Angeles, CA, March 10, 22 |
| 2001 | March 19-23. |
| 2001 | Wu YH. and Miller H.J. (presented by second author), "Computational tools for measuring space-time accessibility in networks with dynamic flow," <i>North</i> |
| | American meetings of the Regional Science Association International, Charleston, |
| | SC, November 15-17. |
| 2001 | Cova T.J. and Miller H.J., "A spatial framework for modeling hazards to |
| 2001 | transportation systems, Association of American Geographers, New York, New |
| | York, February 27 – March 3. |
| 2000. | Wu YH. and Miller H.J. (presented by second author) "GIS tools for measuring |
| | space-time accessibility in networks with dynamic flow," GIScience 2000, |
| | Savannah, Georgia, October 28 - 31. |
| 2000. | Miller H.J. and Wu YH., "Assessing the impacts of transportation congestion |
| | using dynamic space-time accessibility measures, Institute for Management |
| | Science and Operations Research (INFORMS 2000), Salt Lake City, UT, May 7- |
| | 10. |
| 2000. | Miller H.J., "Extending geographic representation in spatial analysis," Western |
| | Regional Science Association, Poipu, Kaua'i, February 26 – March 1. |
| 1999. | Miller H.J., "Extending geographic representation in spatial analysis," European |
| | Colloquium on Quantitative and Theoretical Geography, Durham Castle, |
| 1000 | England, September 3-7. |
| 1999. | Miller H.J. and Wu YH., "Measuring space-time accessibility in the presence of |
| | dynamic network congestion," European Congress of the European Regional |
| 1999. | <i>Science Association</i> , Dublin, Ireland, August 23-27. Miller H.J. , Wu YH. and Hung M., "GIS-based dynamic traffic congestion |
| 1999. | modeling to support time-critical logistics," Association of American |
| | <i>Geographers</i> , Honolulu, Hawai'i, March 23-27. |
| 1999. | Solomon V. and Miller H.J., ""Non-uniform spatial propagation in facility |
| 1777. | location techniques using GIS," Association of American Geographers, Honolulu, |
| | Hawai'i, March 23-27 (presented by first author). |
| 1999. | Miller H.J., Wu YH. and Ming Hung, "GIS-based dynamic traffic congestion |
| | modeling to support time-critical logistics," Hawai'i International Conference on |
| | System Science (HICSS), Maui, Hawai'i, January 5-8. |
| 1998. | Miller H.J., Wu YH. and Ming Hung, "GIS-based dynamic traffic congestion |
| | modeling," North American Meetings of the Regional Science Association |
| | International, Santa Fe, New Mexico, November 11-14. |

| 1998. | Miller H.J., "Measuring space-time accessibility benefits within transportation networks: Basic theory and computational methods," <i>European Regional Science</i> |
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| | Association Congress, Vienna, Austria, August 28 - September 1. |
| 1998. | Miller H.J. and Wu YH., "Beyond throughput: Using GIS to model and map accessibility in transportation planning and analysis," <i>GISPlaNet '98</i> , Lisbon, |
| | Portugal, September 9 - 12. |
| 1998. | Miller H.J., Wu YH. and Hung M., "GIS-based dynamic traffic congestion |
| 1770. | modeling," Geographic Information Systems for Transportation (GIS-T), |
| 1000 | Snowbird, UT, April 20-24. |
| 1998. | Miller H.J., "Measuring space-time accessibility benefits within transportation |
| 1000 | networks," Association of American Geographers, Boston, MA, March 25-29. |
| 1998. | Miller H.J., "Measuring space-time accessibility benefits within transportation |
| | networks: Basic theory and computational procedures," Western Regional Science |
| 1007 | Association, Monterey, CA, February 28-22. |
| 1997. | Miller H.J. and Ray J., "GIS software for dynamic congestion analysis in time- critical logistics, <i>GIS/LIS</i> '97, Cincinnati, Ohio, October 28-30. |
| 1997. | Solomon V. and Miller H.J., "Using GIS to locate emergency warning sirens in |
| | rugged terrain," <i>GIS/LIS</i> '97, Cincinnati, Ohio, October 28-30 (presented by first author). |
| 1997. | Okabe A. and Miller H.J., "Exact computational methods for calculating distances |
| | between objects in a cartographic database," Western Regional Science |
| | Association, Big Island of Hawai'i, February 23-27 (presented by second author). |
| 1996. | Miller H.J., "Solving location and layout problems using GIS and simulated |
| | annealing," GIS/LIS'96, Denver Colorado, November 19-21. |
| 1996. | Miller H.J., "Solving facility location problems using adaptive simulated |
| | annealing," Association of American Geographers, Charlotte, North Carolina, |
| | April 9-13. |
| 1996. | Miller H.J. and Storm J.D., "GIS design for a simultaneous transportation |
| | equilibrium model," Geographic Information Systems for Transportation (GIS-T) |
| | '96, Kansas City, Missouri, March 31-April 4. |
| 1996. | Miller H.J., "Solving complex facility location problems using adaptive |
| | simulated annealing," Western Regional Science Association, Napa, California, |
| | February 25-29. |
| 1996. | Miller H.J. and Storm J.D., "A GIS-based simultaneous transportation |
| | equilibrium model," Transportation Research Board, Washington, D.C., January |
| | 7-11. |
| 1995. | Miller H.J., Storm J.D. and Bowen M., "GIS design for multimodal network |
| | analysis," GIS/LIS'95, Nashville, Tennessee, November 14-16. |
| 1995. | LaBonty G.J. and Miller H.J., "Modeling the accessibility of public health |
| | facilities using GIS," GIS/LIS'95, Nashville, Tennessee, November 14-16 |
| | (presented by first author) |
| 1995. | Miller H.J., Storm J.D. and Bowen M., "GIS design for multimodal transportation |
| | network analysis," joint meeting of the Applied Geography Conference and the |
| | Mid-Atlantic Division of the Association of American Geographers, Washington, |
| | D.C., November 8-11th. |
| 1995. | Miller H.J., Storm J.D. and Haslam B.L., "A GIS-based simultaneous |
| | transportation equilibrium model," Association of American Geographers, |
| | Chicago, Illinois, March 14-18th. |

| 1995. | Miller H.J., Storm J.D. and Haslam B.L., "A GIS-based simultaneous transportation equilibrium model and its application in an urban-scale travel |
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| | demand analysis," <i>Western Regional Science Association</i> , San Diego, California, February 22-26th. |
| 1994. | Finco M.V., Hepner G.F. and Miller H.J. , "GIS modeling of contaminant pathways and human exposure in the Nogales region of the Mexico - U.S. border," <i>GIS/LIS '94</i> , Phoenix, Arizona, October 25-27 (presented by first author). |
| 1994 | Miller H.J., "Towards fuller geometric representation in facility location problems using GIS," <i>Association of American Geographers</i> , San Francisco, California, March 29 - April 2. |
| 1994. | Lowry J.H. and Miller H.J. , "GIS modeling of hazardous material vulnerability at the U.SMexico border," <i>Association of American Geographers</i> , San Francisco, California, March 29 - April 2 (presented by first author). |
| 1994. | Miller H.J. and Finco M.V., "Spatial search and spatial competition: A probability analysis of basic results from the spatially-restricted theory," <i>Western Regional Science Association</i> , Tucson, Arizona, February 23-27. |
| 1993. | Miller H.J. , "GIS and the geometry of facility location problems," <i>GIS/LIS '93</i> , Minneapolis, Minnesota, November 2-4. |
| 1993. | Miller H.J. , "Market area delimitation within network structures using geographic information systems," <i>Association of American Geographers</i> , Atlanta, Georgia, April 6-10. |
| 1993. | Hepner G.F., Kontuly T.M., McCoy R. and Miller H.J., "Geographic information systems development - U.S./Mexico border project," <i>Southwest Center for</i> <i>Environmental Research and Policy Technical Conference</i> , Chandler, Arizona, March 24-26 (presented by first author). |
| 1993. | Miller H.J., "Probability-based models of spatial search," <i>Western Regional Science Association</i> , Wailea, Maui, Hawaii, February 21-25. |
| 1992. | Miller H.J., "Consumer spatial search behavior: A general modeling framework and operational models," <i>Association of American Geographers</i> , San Diego, California, April 18-22. |
| 1992. | Miller H.J., "Dynamic programming and stochastic network approaches to modeling spatial search," <i>Western Regional Science Association</i> , February 23-27, South Lake Tahoe, Nevada. |
| 1991. | Miller H.J. , "Modeling accessibility using space-time prism concepts within GIS," <i>Association of American Geographers</i> , Miami, Florida, April 13-17. |
| 1990. | Miller H.J., "Path selection in spatial search behavior," Association of American Geographers, Toronto, Ontario, April 19-22. |
| 1990. | O'Kelly M.E. and Miller H.J. , "Routing problems in hub networks," <i>Association of American Geographers</i> , Toronto, Ontario, April 19-22 (presented by first author). |
| 1989. | Miller H.J. and O'Kelly M.E., "An investigation into the use and properties of the Alonso spatial interaction framework as a market area delimitation tool," <i>Association of American Geographers</i> , Baltimore, Maryland, March 19-22. |
| 1989. | Jackson R.W., Miller H.J. and Martin Hynes, "Regional accounts for the Columbus metropolitan area," <i>Association of American Geographers</i> , Baltimore, Maryland, March 19-22 (presented by first author). |
| 1988. | Miller H.J. , "An application of the Alonso spatial interaction framework to market area delimitation," <i>Applied Geography Conference</i> , St. Paul, Minnesota. |

Panel discussions

| 2017. | "Current state of human dynamics in smart and connected communities," |
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| 2016. | American Association of Geographers, Boston, MA, April 4-9. "GI-Science and Data Science: Can they profit from each other?" <i>GI-Forum</i> , |
| 2016. | Salzburg, Austria, 5 July. "The future of maps," <i>AGILE International Conference on Geographic</i> |
| 2016. | Information Science, Helsinki, Finland, 14-17 June. "Symposium on human dynamics research: Theoretical perspectives on human dynamics research," Association of American Geographers, San Francisco, CA, |
| 2016. | 29 March – 2 April. "Symposium on human dynamics research: Prospects and challenges of human dynamics research," Association of American Geographers, San Francisco, CA, 29 March – 2 April. |
| 2015. | "Research priorities in GIScience," University Consortium for Geographic Information Science, Alexandria, VA, 28-30 May. |
| 2015. | "Unlocking low carbon mobility," Association of American Geographers, Chicago, IL, 21-25 April. |
| 2015. | "CyberGIS symposium: Frontiers of Big Data and urban informatics," <i>Association of American Geographers</i> , Chicago, IL, 21-25 April. |
| 2014. | "Spatial data in 2030," <i>GIScience 2014</i> , Vienna, Austria, September 23-26 |
| 2014. | "Roles of cyberGIS and geography for turning big data into rich data and knowledge," <i>Association of American Geographers</i> , Tampa, Florida, April 8-12. |
| 2014. | "Open GIS: Problems and prospects," <i>Association of American Geographers</i> , Tampa, Florida, April 8-12. |
| 2011. | "Progress and prospects of time geography and space-time analysis," <i>Association of American Geographers</i> , New York City, NY, 24-28 February. |
| 2010. | "Social networks and information and communication technologies: Implications for activities in real and virtual spaces," <i>Transportation Research Board</i> , |
| 2007. | Washington, DC, January 10-14. "Honoring Atsuyuki Okabe: Applications, developments, and future research on spatial analysis and GIScience I," <i>Association of American Geographers</i> , San |
| 2006. | Francisco, CA, April 17-21. "Transport geography: Identifying emerging research trends and new directions in the subdiscipline," <i>Association of American Geographers</i> , Chicago, IL March 7- 11. |
| 2003. | "On Tobler's first law," Association of American Geographers, New Orleans, LA, March 5-8. |
| 2003. | "Rethinking geospatial research," <i>Transportation Research Board</i> , Washington, DC, January 11-16. |
| 2002. | "GIS in higher education," <i>Utah Geographic Information Council</i> , Bryce Canyon, Utah, September 18-20. |
| 2002. | "Who am I? The changing GIS professional," <i>Utah Geographic Information Council</i> , Bryce Canyon, Utah, September 18-20. |
| 2002. | "GIS for transportation education needs," <i>Association of American Geographers</i> , Los Angeles, CA, March 19-23. |
| 2000. | "GIScience Editors' Panel," <i>GIScience 2000</i> , Savannah, Georgia, October 28 - 31. |

| "Education in Geographic Information Systems for Transportation: Needs, |
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| Challenges and Solutions," Transportation Research Board, Washington, DC, |
| January 9-13. |
| "GIS and Spatial Analysis," University Consortium for Geographic Information |
| Science (UCGIS), Park City, UT, June 24-27. |
| <i>"The Geography of Transportation:</i> Review and comment," Association of American Geographers, Ft. Worth, Texas, April 1-5. |
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