HARVEY J. MILLER

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Department of Geography The Ohio State University 1036 Derby Hall 154 North Oval Mall Columbus, OH 43210-1361

EDUCATION

1991 Ph.D. (Geography), The Ohio State University, Columbus, Ohio.

1987 M.A. (Geography), Kent State University, Kent, Ohio.

1985 B.A., Honors (Geography), Kent State University, Kent, Ohio.

RESEARCH AND TEACHING INTERESTS

Empirical: Human mobility and accessibility; Sustainable transportation; Mobility and

justice; Mobility and health.

Methodological: Geographic information science; Spatial analysis; Time geography; Moving

objects analytics.

PROFESSIONAL APPOINTMENTS

Main Appointments

Director, Center for Urban and Regional Analysis (CURA), The Ohio State
University.
Bob and Mary Reusche Chair in Geographic Information Science, The Ohio State
University.
Professor, Department of Geography, The Ohio State University.
Courtesy Professor, Department of City and Regional Planning, Knowlton School
of Architecture, 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.

Other Appointments and Affiliations

<u>University</u>	
2019 - 2020	Co-leader (with Gulsah Akar), Smart and Resilient Communities research initiative,
	Sustainability Institute, The Ohio State University.
2019 - 2023	Faculty Advisory Board, Sustainability Institute, The Ohio State University.
2016 - 2018	Leadership Team, Sustainable and Resilient Economy, Discovery Themes
	initiatives, The Ohio State University.
2019 - present	Faculty Affiliate, Sustainability Institute, The Ohio State University.
2016 - present	Faculty Affiliate, Translational Data Analytics Institute, The Ohio State University.
2014 - present	Faculty Affiliate, Institute for Population Research, College of Arts and Sciences,
	The Ohio State University.
2013 - 2015	Faculty Affiliate, Center for Urban and Regional Analysis, College of Arts and
	Science, The Ohio State University.
1998 - 2001	Director, Certificate Program in Geographic Information Science, Department of
	Geography and Department of Computer Science, University of Utah.
1996 - 1998	Adjunct Associate Professor, Department of Civil and Environmental Engineering,

Utah State University.

1995 Director, Digitally Integrated Geographic Information Technologies Laboratory,

Department of Geography, University of Utah.

External Research Centers

1998 - 2000

1996 - 1998

1994 - 1996

2022 - present Faculty Affiliate, Center for Injury Research and Policy, Abigail Wexner Research Institute, Nationwide Children's Hospital, Columbus, Ohio.

Professional Organi	zations
2022 - 2024	President-elect, President and Past-president, University Consortium for Geographic
	Information Science.
2015 - 2018	Board of Directors, University Consortium for Geographic Information Science.
2013 - 2015	Chair, Subcommittee on Research, Data and Information Section (ABJ00),
	Transportation Research Board, National Research Council.
2012 - 2015	Co-chair, Subcommittee on Computational Transportation and Society (ABJ30(2)),
	Transportation Research Board, National Research Council.
2012 - 2019	Member, Data and Information Section (ABJ00), Transportation Research Board.
2012	Chair, Geographic Information Systems and Science specialty group, American
	Association of Geographers.
2011	Vice-chair, Geographic Information Systems and Science specialty group, American
	Association of Geographers.
2005 - 2013	Member, Committee on Visualization in Transportation (ABJ95), Transportation
	Research Board, National Research Council
2005 - 2011	Co-chair, Committee on Geographic Information Science and Applications
	(ABJ60), Transportation Research Board.
2002 - 2004	Member, Task force on Visualization in Transportation (ABJ95T), Transportation
	Research Board, National Research Council
2003 - 2017	Member, Committee on Geographic Information Science and Applications (ABJ60),
	Transportation Research Board, National Research Council.
2000 - 2003	Board member, University Consortium for Geographic Information Science.
2000 - 2003	Councilor-at-large, North American Regional Science Association.

US National Academies of Science, Engineering and Medicine

Geographers

US National Academ	ies of Science, Engineering and Medicine
Standing Committees and Boards	
2021 - 2023	Member, Board on Earth Sciences and Resources, Division on Earth and Life
	Studies.
2023	Co-chair, Geographic and Geospatial Sciences Committee Board on Earth Sciences
	and Resources, Division on Earth and Life Studies (merger between Geographical
	Sciences Committee and Mapping Sciences Committee).
2017 - 2022	Chair, Mapping Science Committee, Board on Earth Sciences and Resources,
	Division on Earth and Life Studies.
2014 - 2016	Member, Mapping Science Committee, Board on Earth Sciences and Resources

Group, American Association of Geographers.

American Association of Geographers.

Chair, Spatial Analysis and Modeling Specialty Group, American Association of

Vice-chair/Treasurer, Mathematical Modeling and Quantitative Methods Specialty

Board Member, Mathematical Modeling and Quantitative Methods Specialty Group,

Consensus Study Con	nmittees
2023 - 2025	Co-chair, Utilizing Advanced Environmental Health and Geospatial Data and
	Technologies to Inform Community Investment, Board on Earth Sciences and
	Resources, Board on Environmental Studies and Toxicology and Board on
	Mathematical Sciences and Analytics, Division on Earth and Life Studies and Division on Engineering and Physical Sciences
2001 - 2003	Member, Spatial Information Infrastructure for Multi-Modal Transportation
2001 2000	Systems, Transportation Research Board, National Research Council.
2000 - 2002	Member, Community and Quality of Life: Data Needs for Informed Decision
	Making, Board on Earth Sciences and Resources, Division of Earth and Life Studies.
Visiting Desitions	
Visiting Positions 2011	Visiting Country Institute for Coninformation Hairmaite of Mineton Müneton
2011	Visiting faculty, Institute for Geoinformatics, University of Münster, Münster, Germany.
2011	Visiting faculty, Department of Infrastructure Engineering, University of
	Melbourne, Melbourne, Australia.
2010	Visiting faculty, Department of Geography, Ghent University, Gent, Belgium.
2010	Visiting faculty, Department of Geography, University of Zurich.
2003	Visiting faculty, Institute for Geoinformatics, University of Münster, Münster,
	Germany.
1995	Research Fellow, Bureau of Transportation Statistics, U.S. Department of
	Transportation, Washington, D.C.

HONORS AND AWARDS

<u>Personal</u>	
2023	Outstanding Achievement in Urban Informatics Award, International Society for
	Urban Informatics (ISUI)
2022	Community Engaged Scholar Award, The Ohio State University.
2021	Elected fellow, American Association for the Advancement of Science.
2021	Elected fellow, American Association of Geographers.
2015	Research Award, University Consortium for Geographic Information Science.
2009	Edward L. Ullman Award for Significant Contributions to Transportation
	Geography, American Association of 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.

Collaborative	
2023	Frederick J. Holdridge Outstanding Group Award for CURA's Ghost
	Neighborhoods of Columbus project, Columbus Landmarks Foundation.
2020	Collaborative Achievement in Sustainability Award for CURA's Regional
	Sustainability Dashboard, Mid-Ohio Regional Planning Commission.
RESEARCH	
Peer-refereed	Journal Articles
2024	Stiles I and Miller H.I. "The built environment and the determination of fault

2022

2024	Stiles, J. and Miller, H.J. "The built environment and the determination of fault in
	urban pedestrian crashes: Towards systems-oriented crash investigation," Journal of
	Transport and Land Use, 17, 97-113.
2024	Willberg, E., Tenkanen, H., Miller, H.J., Pereira, R. H. M. and Toivonen, T.
	"Measuring just accessibility within planetary boundaries," Transport Reviews, 44,
	140–166
2024	Liu, L., Porr, A., and Miller, H.J. "Measuring the impacts of disruptions on public
	transit accessibility and reliability," Journal of Transport Geography, 114, 103769.
2023	Pratt, K.J., Miller, H.J., Hanks, A.S., Focht, B., Noria, S., Needleman, B. and
	Brethauer, S. "Transportation factors and postoperative attendance and weight loss
	through 24 months," Obesity Surgery. https://doi.org/10.1007/s11695-023-06906-7
2023	Kar, A., Le, H.T.K. and Miller, H.J. "Inclusive accessibility: Integrating
	heterogeneous user mobility perceptions into space-time prisms," Annals of the
	American Association of Geographers, 113, 2456-2479.
2023	Li, Y., Miller, H.J., Hyder, A. and Jia, P. "Understanding the spatiotemporal
	evolution of opioid overdose events using a regionalized sequence alignment
	analysis," Social Science and Medicine, 116188.
2023	Liu, L., Porr, A. and Miller, H.J. "Realizable accessibility: Evaluating the reliability
	of public transit accessibility using high-resolution real-time data," Journal of
	Geographical Systems, 25, 429-451.
2023	Lin, Y., Porr, A., Li, J., Logan, G., Xiao, N. and Miller, H.J. "Creating high
	resolution, three-dimensional digital models of historic urban neighborhoods from
	Sanborn Fire Insurance maps using machine learning," <i>PLoS ONE</i> 18(6): e0286340.
2023	Negm, H., Miller, H.J. and El-Geneidy, A. "Exploring the X-minute city by travel
	purpose in Montréal, Canada," Findings, June, doi.org/10.32866/001c.77506.
2023	Liu, L., Kar, A., Tokey, A. Le, H.T.K. and Miller, H.J. "Disparities in public transit
	accessibility and usage by people with mobility disabilities: An evaluation using
	high-resolution transit data," Journal of Transport Geography, 109, 103589
2023	Pratt, K.J., Hanks, A.S., Miller, H.J., Outrich, M., Swager, L.C., Noria, S.,
	Brethauer, S., Needleman, B. and Focht, B.C. "Proximity to high/moderate vs low
	diversity selection food stores and patient weight loss through 24 months," Obesity
	Surgery, 33, 1184-1191.
2022	Pratt, K.J., Hanks, A.S., Miller, H.J., Outrich, M., Breslin, L., Blalock, J., Noria, S.,
	Brethauer, S., Needleman, B. and Focht, B. "The BARI-hoods Project:
	Neighborhood social determinants of health and postoperative weight loss using
	integrated EHR, Census, and county data," Surgery for Obesity and Related

Diseases, 19, 318-327. Lee, J. and Miller, H.J. "Simple pre-post analysis overestimates the impacts of new public transit services on ridership: Evidence from a quasi-experimental study of new bus rapid transit in Columbus, Ohio, USA," Journal of Public Transportation, 24, 100035.

on public transit accessibility," Computers, Environment and Urban Systems, 98, 101885. 2022 Kar, A., Carrel, A., Miller, H.J. and Le, H.T.K. "Public transit cuts during COVID-19 compound social vulnerability in 22 U.S. cities," Transportation Research D: *Transport and the Environment*, 110, 103435. 2022 Stiles, J., Li, Y. and Miller, H.J. "How does street space influence crash frequency? An analysis using segmented street view imagery," Environment and Planning B: *Urban Analytics and City Science*, 49, 2467-2483. 2022 Kar, A., Le, H.T.K. and Miller, H.J. "What is essential travel? Socio-economic differences in travel demand during the COVID-19 lockdown," Annals of the American Association of Geographers, 112, 1023-1046. 2022 Li, Y., Miller, H.J., Root, E.D., Hyder, A. and Liu, D. "Understanding the role of urban social and physical environment in opioid overdose events using found geospatial data," Health and Place, 75, 102792. 2022 Acton, B., Le, H.T.K. and Miller, H.J. "The impacts of bus rapid transit (BRT) on residential property values: A comparative analysis of 11 US BRT systems," Journal of Transport Geography, 100, 103324. Stiles, J., Kar, A., Lee, J. and Miller, H.J. "Lower volumes, higher speeds: Changes 2021 to crash type, timing, and severity on urban roads from COVID-19 stay-at-home policies," Transportation Research Record, 2677. 15-27. 2021 Liu, L. and Miller, H.J. "Measuring risk of missing transfers in public transit systems using high-resolution schedule and real-time bus location data," Urban Studies, 58, 3140-3156. 2021 Kar, A., Motoyama, Y., Carrel, A., Miller, H.J. and Le, H.T.K. "COVID-19 exacerbates unequal food access," Applied Geography, 134, 102517. 2021 Miller, H.J., Clifton, K., Akar, G., Tufte, K. Gopalakrishnan, S., MacArthur, J., Irwin, E., Ramnath, R., Stiles, J. "Urban sustainability observatories: Leveraging urban experimentation for sustainability science and policy," Harvard Data Science Review, 3.2, DOI: 10.1162/99608f92.2025202b 2021 Hyder, A., Lee, J., Dundon, A., Southerland, L.T., All, D., Hammond, G., and Miller, H.J. "Opioid treatment deserts: Concept development and application in a US Midwestern urban county," PLOS ONE 16(5): e0250324. Lee, J., Irwin, N., Irwin, E. and Miller, H.J. "The role of distance-dependent vs. 2021 localized amenities in polarizing urban spatial structure: A spatio-temporal analysis of residential location value in Columbus, Ohio, 2000-2015," Geographical Analysis, 53, 283-306. 2021 Franklin, R.S., Houlden V. Robinson, C., Arribas-Bel, D., Delmelle, E.C., Demšar, U., Miller H.J. and O'Sullivan, D. "Who counts? Gender, gatekeeping, and quantitative human geography," *Professional Geographer*, 73, 48-61. Liu, L., Miller, H.J. and Scheff, J. "The impacts of COVID-19 pandemic on public 2020 transit demand in the United States," PLOS ONE 15(11): e0242476. 2020 Li, Y., Hyder, A., Southerland, L.T., Hammond, G., Porr, A. and Miller, H.J. "311 service requests as indicators of neighborhood distress and opioid use disorder," *Nature Scientific Reports*, 10, 19579. 2020 Liu, L. and Miller, H.J. "Does real-time transit information reduce waiting time? An empirical analysis," *Transportation Research A*, 141, 167-179.

Liu, L. and Miller, H.J. "Measuring the impacts of dockless micro-mobility services

2022

2020 Lee, J. and Miller, H.J. "Robust accessibility: Measuring accessibility based on travelers' heterogeneous strategies for managing travel time uncertainty," Journal of Transport Geography, 86, 102747. 2020 Lee, J., Porr, A. and Miller, H.J. "Evidence of increased vehicle speeding in Ohio's major cities during the COVID-19 pandemic," Transportation Findings, June, https://doi.org/10.32866/001c.12988 McHaney-Lindstrom, M., Hebert, C., Miller, H.J., Moffatt-Bruce, S. and Root, E. 2020 "Network analysis of intra-hospital transfers and hospital-onset Clostridium Difficile infection," Health Information and Libraries Journal, 37, 26-34. 2020 Jaegal, Y. and Miller, H.J. "Measuring the structural similarity of network time prisms using temporal signatures with graph indices," *Transactions in GIS*, 24, 3-26. 2020 Miller, H.J., "GIScience, fast and slow: Why faster geographic information is not always smarter." Progress in Human Geography, 44, 129-138. Park, Y., Mount, J., Liu, L., Xiao, N. and Miller, H.J. "Assessing public transit 2020 performance using real-time data: Spatio-temporal patterns of bus operation delays in Columbus, Ohio, USA," International Journal of Geographical Information Science, 34, 367-392. 2019 Miller, H.J., Jaegal, Y. and Raubal, M., "Measuring the geometric and semantic similarity of space-time prisms using temporal signatures," Annals of the American Association of Geographers, 109, 730-753. 2019 Miller, H.J., Dodge, S., Miller, J.A. and Bohrer, G. "Towards an integrated science of movement: Converging research on animal movement ecology and human mobility," International Journal of Geographical Information Science, 33, 855-876. 2019 Lee, J. and Miller, H.J. "Analyzing collective accessibility using average spacetime prisms," Transportation Research Part D: Transport and Environment, 69, 250-264. 2019 Mahmoudi, M., Song, Y., Miller, H.J. and Zhou, X. "Accessibility with time and resource constraints: Computing hyper-prisms for sustainable transportation planning," Computers, Environment and Urban Systems 73, 171-183. 2019 Proffitt, D., Bartholomew, K., Ewing, R. and Miller, H.J., "Accessibility planning in American metropolitan areas: Are we there yet?" Urban Studies, 56, 167-192. 2018 Werner, C.M., Brown, B.B., Stump, T., Tribby, C.P., Jensen, W., Miller, H.J., Strebel, A. and Messina, A. "Street use and design: Daily rhythms on four streets that differ in rated walkability," Journal of Urban Design, 23, 603-619. Lee, J. and Miller, H.J., "Measuring the impacts of new public transit services on 2018 space-time accessibility: An analysis of transit system redesign and new bus rapid transit in Columbus, Ohio, USA," Applied Geography, 93, 47-63. 2018 Miller, H.J. "Mesogeography: Social physics, GIScience and the quest for geographic knowledge," Progress in Human Geography, 42, 600-609. Song, Y., Miller, H.J., Stempihar, J. and Zhou, X., "Green accessibility: Estimating 2017 the environmental costs of network-time prisms for sustainable transportation planning," Journal of Transport Geography, 64, 109-119. Kuijpers, B., Miller, H.J. and Othman, W., "Kinetic prisms: incorporating 2017 acceleration limits into space-time prisms," International Journal of Geographic *Information Science*, 31, 2164-2194. 2017 Miller H.J., "Geographic information observatories and opportunistic GIScience," Progress in Human Geography, 41, 489-500.

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, <i>Health and Place</i> , 45, 1-9.
2017	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> , 44, 145-1167.
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," <i>Journal of Physical Activity & Health</i> , 13, 1210-1219
2016	Miller H.J. and Tolle K., "Big data for healthy cities: Using location-aware technologies, open data and 3D urban models to design healthier built environments," <i>Built Environment</i> , 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," <i>Journal of Transport and Health</i> , 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. <i>Journal of Environmental Psychology</i> , 46,188-196.
2016	Tang J., Song Y., Miller H.J. and Zhou X. "Estimating the most likely space-time 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," <i>Geographical Analysis</i> , 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, 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 and Policy for the Information Society</i> , 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," <i>Journal of Transport Geography</i> , 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 in a neighborhood of Salt Lake City, Utah, USA," <i>Health and Place</i> , 36, 8-17
2015	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, 1468-1474.

2015 Miller H.J. and Shaw, S.-L., "Geographic information systems for transportation in the 21st century," Geography Compass, 9, 180-189. 2015 Miller H.J. and Goodchild, M.F., "Data-driven geography," GeoJournal, 80, 449-2014 Hu Y., Miller H.J. and Xiang Li, "Detecting and analyzing mobility hotspots using surface networks," Transactions in GIS, 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," Preventive Medicine, 66, 140-144 Brown B.B., Wilson L., Tribby C.P., Werner C.M., Wolf J., Miller H.J., Smith K.R. 2014 "Adding maps (GPS) to accelerometry data to improve study participants' recall of physical activity: A methodological advance in physical activity research," British Journal of Sports Medicine, 48, 1054-1058. Song Y. and Miller H.J., "Simulating visit probability distributions within planar 2014 space-time prisms," International Journal of Geographical Information Science, 28, 104-125. 2014 Jeong M.-H., 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," International Journal of Geographical Information Science, 28, 1-21. 2013 Miller H.J., "Beyond sharing: Cultivating cooperative transportation systems through geographic information science," Journal of Transport Geography, 31, 296-2013 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," Transport Policy, 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," Annals of the Association of American Geographers, 103, 483-504. Miller H.J., Witlox F. and Tribby C.P., "Developing context-sensitive livability 2013 indicators for transportation planning: A measurement framework," Journal of Transport Geography, 26, 51-64. 2012 Song Y. and Miller H.J., "Exploring traffic flow databases using space-time plots and data cubes," Transportation, 39, 215-234. Kobayashi T., Miller H.J. and Othman W., "Analytical methods for error 2011 propagation in planar space-time prisms," Journal of Geographical Systems, 13, 327-354. 2010 Neutens T., Schwanen T. and Miller H.J., "Dealing with timing and synchronization in opportunities for joint activity participation," Geographical Analysis, 42, 245-266 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. Miller H.J., "The data avalanche is here. Shouldn't we be digging?" Journal of 2010 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.

Ahmed N. and Miller H.J., "Time-space transformations of geographic space for 2007 exploring, analyzing, and visualizing transportation systems," Journal of Transport Geography, 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. Miller H.J., "Necessary space-time conditions for human interaction," Environment 2005 and Planning B: Planning and Design, 32, 381-401. 2005 Miller H.J., "A measurement theory for time geography," Geographical Analysis, 37, 17-45. Raubal M., Miller H.J. and Bridwell S.A., "User-centered time geography for 2004 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. Miller H.J. and Wentz E.A. "Representation and spatial analysis in geographic 2003 information systems," Annals of the Association of American Geographers, 93, 574-594. 2001 Wu Y.-H. 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 Y.-H., Miller H.J. and Ming-Chih Hung, "A GIS-based decision support system for dynamic network congestion analysis and routing," Journal of Geographical *Systems*, 3, 3-24. Miller H.J. and Wu Y.-H., "GIS software for measuring space-time accessibility in 2000 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," Geographical Systems, 5, 189-198. 1998 Cannon S.J., Kontuly T.M. and Miller H.J., "GIS-based emergency response 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 between objects in a cartographic database," Cartography and Geographic Information Systems, 23, 180-195. 1996 Miller H.J. and Storm J.D., "GIS design for network equilibrium-based travel demand models," *Transportation Research C*, 4C, 373-389. Miller H.J., "Pricing policy reactions to agglomeration in a market with spatial 1996 search," Journal of Regional Science, 36, 393-415. 1996 Miller H.J., "GIS and geometric representation in facility location problems,"

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," <i>Photogrammetric Engineering and Remote Sensing</i> (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," <i>Annals of Regional Science</i> , 29, 67-89.
1994	Miller H.J., "Probability-based models of spatial search," <i>Environment and Planning A</i> , 26, 383-405.
1994	O'Kelly M.E. and Miller H.J. , "The hub network design problem: A review and synthesis," <i>Journal of Transport Geography</i> , 2, 31-40.
1994	Miller H.J. "Market area delimitation within networks using geographic information systems," <i>Geographical Systems</i> , 1, 157-173.
1993	Miller H.J., "Consumer search and retail analysis," <i>Journal of Retailing</i> , 69, 160-192.
1993	Miller H.J., "Modeling strategies for the spatial search problem," <i>Papers in Regional Science</i> , 72, 63-85.
1992	Miller H.J. , "Human wayfinding, environment-behavior relationships, and artificial intelligence," <i>Journal of Planning Literature</i> , 7, 139-150.
1991	Miller H.J., "Modeling accessibility using space-time prism concepts within geographical information systems," <i>International Journal of Geographical Information Systems</i> , 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, London: Taylor and Francis, 157-173.
1991	O'Kelly M.E. and Miller H.J. , "Solution strategies for the single facility minimax 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 area delimitation," <i>The Operational Geographer</i> , 8(2), 9-12.
1989	Jackson R.W., Miller H.J. and Hynes M., "A formal procedure for generating regional product accounts for U.S. regions," <i>Socio-Economic Planning Science</i> , 23, 271-281.
1989	O'Kelly M.E. and Miller H.J. , "A synthesis of some market area delimitation models," <i>Growth and Change</i> , 20(3), 14-33.
Peer-refereed Co	nference 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,

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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,
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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," <i>Procedia Social and Behavioral</i>
	Trocom with Bellinian and the second with the second wit

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** Kuijpers B., Miller H.J., Neutens T. and Othman W., "Anchor uncertainty and 2008 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 Y.-H. 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. Miller H.J., "Solving location and layout problems using GIS and simulated 1996 annealing," GIS/LIS'96 Proceedings, 310-324. Miller H.J., Storm, J.D. and Bowen M., "GIS design for multimodal network 1995 analysis," GIS/LIS '95 Proceedings, 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," GIS/LIS '94 Proceedings, 312-321. 1993 Miller H.J., "GIS and the geometry of facility location problems," GIS/LIS '93

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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,
2007	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.) <i>Geographic Information Science - Fourth International Conference, GIScience 2006, Münster, Germany, September 2006, Proceedings</i> . Lecture Notes in Computer Science 4197, Berlin: Springer
2004	Egenhofer M.J., Freska C. and Miller H.J. (eds.) <i>Geographic Information Science</i> – <i>Third International Conference, GIScience 2004, Adelphi, MD, USA, October 2004, Proceedings</i> , Lecture Notes in Computer Science 3234, Berlin: Springer.
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.
Book Chapters	
2021	Xiao, N. and Miller, H.J. "Cultivating big urban data," in W. Shi, M. Goodchild,
	M. Batty and MP. Kwan (eds.) <i>Urban Informatics</i> , Springer, 547-565.
2020	Miller, H.J. "Ohio State as a 21st century urban university," in S. Gavazzi and D. Staley (eds.) <i>Fulfilling the 21st Century Land-Grant Mission: Essays in Honor of The</i>
2019	Ohio State University's Sesquicentennial Celebration, Ohio State University Press. Miller, H.J. "Cities need mass transit," in M. Graham, R. Kitchin, S. Mattern and J. Shaw (eds.) How to Run a City Like Amazon, and Other Fables, Meatspace Press, 1128-1143.
2019	Miller, H.J. , Song, Y. and Tribby, C.P. "Green, healthy time geography: Using time geographic concepts for sustainable mobility research," in K. Ellegård (ed.) <i>Time Geography in Global Context: An Anthology</i> , Taylor and Francis, 75-95.
2018	Miller, H.J., "Time geography," in D. R. Montello (ed.), Handbook of Behavioral and Cognitive Geography, Cheltenham, UK: Edward Elgar, 74-94
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 and China</i> , Springer, 189-209.
2014	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.) Data Mining for Geoinformatics: Methods and Applications,
2009	Springer, 127-154. 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.) Classics from IJGIS: Twenty Years of the International Journal of Geographical Information Science and Systems, London: Taylor and Francis, 175-179.
2007	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.) <i>Access to Destinations</i> , 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 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.) GIS and Geocomputation, Taylor and Francis,
2002	Innovations in GIS 7; Geographical Analysis, 34, 286-288.
2001	A. S. Fotheringham and M. Wegener (eds.) Spatial Models and GIS: New
2001	
	Potential and New Models, Taylor and Francis, GISDATA 7; Environment and
1000	Planning B: Planning and Design, 28, 623-636.
1999	S. Openshaw and C. Openshaw, <i>Artificial Intelligence in Geography</i> , New York: John Wiley; <i>Journal of Regional Science</i> , vol 39.
Journal Spec	ial Issue Editorials
2023	De Sabbata, S., Ballatore, A., Miller, H.J., Sieber, R. and Yeboah, G. "GeoAI in
	urban analytics," International Journal of Geographical Information Science, online
	first.
2021	Akar, G. and Miller, H.J. "New mobility technologies and cities," Journal of
	Planning Literature, 36(1).
2014	Ahas R., Miller H.J. and Witlox F. "Mobility, communication and urban space,"
	Journal of Urban Technology, 21, 1-7.
Other Public	ations
2018	Miller, H.J., O'Kelly, M.E., Jaegal, Y., Bachman, W.H., Huntsinger, L., Macfarlane,
	G.S., "Estimating external travel using purchased third party data," Final Report,
	State Job Number 134877, Ohio Department of Transportation, Office of Statewide
	Planning and Research. http://worldcat.org/oclc/1043833873/
2009	Miller H.J., "Transport 2.0: Meeting grand transportation challenges with
	geographic information science," ArcNews 30(4), 1-5.
2003	Miller H.J., "What about people in geographic information science?" guest
	editorial, Computers, Environment and Urban Systems, 27, 447-453.
2000	Miller H.J. and Jiawei Han, "Discovering geographic knowledge in data rich
	environments: A report on a specialist meeting," SIGKDD Explorations: Newsletter
	of the (Association for Computing Machinery) Special Interest Group on Knowledge
	Discovery and Data Mining, 1(2), 105-108; available at
1000	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
1007	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

Grants and Contracts

of Transportation.

Extramural

1993

Hepner G.F. and **Miller H.J.**, "Using GIS for environmental assessment," *ACSM Bulletin*, 146 (November/December), 42-46.

2022- 2025	Ard, K., Hood, D.B, (PI), Le, H., Miller, H.J. , Thomas, J.R., Usher, K.M., Weir, M.H. and Williams, K.P. "Analysis of climate change related chemical and non-chemical stressor exposures: Cumulative health impacts and risk trajectories in vulnerable Ohio," <i>US Environmental Protection Agency</i> (84047101), \$1,294,249
2023 - 2024	Hyder, A. (PI) and Miller, H.J. "FOCAL: an opioid policy planning tool," <i>Franklin County Public Health</i> (CDCOD2A – 210), \$215,261.85
2020 - 2023	Figueroa, W.S. (PI), Hyder, A. and Miller, H.J. "Franklin Co overdose data to action project: Strategy 3: Innovative surveillance - Linking overdose data with risk / protective factor data," <i>Franklin County Public Health</i> , \$340,000.
2019 – 2024	Flaherty J., Gregory M., Hebert, C., Miller H.J. Odei J., Rayo M. and Root E. (PI) "GeoHAI: A novel geographic tool for hospital acquired infection visualization and assessment," <i>Agency for Healthcare Research and Quality, National Institutes of Health</i> (1R01HS027200-01), \$2,470,297
2019 – 2022	Hyder, A. (PI), Kauffman E.B. and Miller, H.J. "Franklin Co overdose data to action project: Strategy 3: Innovative surveillance - Linking overdose data with risk / protective factor data," <i>Franklin County Public Health</i> , \$177,564.
2019 – 2020	Akar G., Clifton K., Gopalakrishnan S., Miller H.J . (PI), Tufte K. "Exploring a research network of urban sustainability observatories via data-enabled university-community partnerships," (BCS-1929927), National Science Foundation, \$49,884.
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) <i>National Science Foundation</i> ; \$69,999.
2015 – 2017	Miller H.J. (PI) and O'Kelly M.E., "Estimating external travel using purchased third party data" (PID 97397), <i>Ohio Department of Transportation</i> , \$631,662.
2013 - 2018	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), <i>National Science Foundation</i> , \$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), <i>National Science Foundation</i> ; \$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), <i>National Science Foundation</i> ; \$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), <i>National Cancer Institute, National Institutes of Health</i> ; \$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)," <i>U.S. Department of Transportation</i> , 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," <i>Military Traffic Management Command</i> - <i>Transportation Engineering Agency</i> through the Transportation Center at the University of Tennessee; \$40,714.
1994 - 1995	Miller H.J., "Spatial search and spatial competition," <i>National Science Foundation</i> (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," <i>U.S. Environmental Protection Agency</i> ; \$509,700.
Intramural and Seed	Funding
2023 - 2024	Miller, H.J., Xiao, N. and Qin, R. "3D digital reconstruction of lost urban
2023 - 2024	streetscapes: Historic Mt. Vernon Ave in Columbus," <i>Battelle Engineering, Technology and Human Affairs Endowment (BETHA)</i> , \$59,225.
2022 -2023	Ahmed, Q., Miller, H.J . and Hanif, A. "Battery load management in fleet electric school buses," <i>Sustainability Research Seed Grant, Sustainability Institute, The Ohio State University</i> , \$50,000.
2022 - 2023	Yang, J., Miller, H.J. and Wang, Y. "Built environmental features and driving behaviors among teen drivers," <i>Interdisciplinary Research Pilot Award, Translation Data Analytics Institute, The Ohio State University</i> , \$50,000
2019 - 2021	Akar, G., Irwin, E. (co-PI), Chen, Z., Hertziger, A., McNair, A.W., Miller, H.J . (co-PI) and Reece, J. "Smart Columbus impacts assessment," <i>Smart@OhioState Initiative, The Ohio State University</i> \$333,515
2019 - 2020	Miller, H.J. (PI) and Akar, G. "Regional sustainability dashboard for the Mid-Ohio Regional Planning Commission," <i>Office of Energy and Environment, The Ohio State University</i> , \$150,000.
2018 - 2020	Miller, H.J. (PI), Hyder, A. and Southerland, L. "Franklin County Opioid Crisis Activity Levels (FOCAL) map," <i>Opioid Innovation Fund</i> , Office of Academic Affairs, <i>The Ohio State University</i> , \$96,762.
2017	Arora, A. and Miller, H.J. "Measuring and analyzing active transportation using low-cost wireless sensor networks," <i>Translational Data Analytics Institute seed grant program, The Ohio State University</i> , \$32,719.
2002	Miller, H.J. "DIGIT lab geographic visualization platform and supporting input/output hardware," <i>Research Instrumentation Fund, Vice President for Research, University of Utah</i> , \$20,825.
1999	Miller, H.J. "Server upgrades and graphic workstation for geographic visualization," <i>Research Instrumentation Fund</i> , Vice President for Research, <i>University of Utah</i> , \$45,800.
1998	Miller, H.J. "GIScience research data server," Research Instrumentation Fund, Vice President for Research, University of Utah, \$53,100.
1997	Miller, H.J. "DIGIT Lab workstations for spatial data processing," <i>Research Instrumentation Fund, Vice President for Research, University of Utah</i> , \$47,640.
1996	Miller, H.J. "DIGIT Lab high-end graphics workstations," Research

1995	Instrumentation Fund, Vice President for Research, University of Utah, \$32,016. Miller, H.J. "Department of Geography file server upgrade and cartographic output device," Research Instrumentation Fund, Vice President for Research, University of Utah, \$30,300
Kevnote, Plenar	y and Endowed Lectures
2024	"Mapping Columbus' ghost neighborhoods: Using AI and GIS to create 3D models of neighborhoods damaged by urban highways and urban renewal in the 20th century," E. Willard and Ruby S. Miller Endowed Lecture, Department of
2022	Geography, Pennsylvania State University, March 15. "Why is sustainable mobility so hard? Some observations on the paths forward," <i>LBS 2022: 17th International Conference on Location-based Services</i> , Munich, Germany, September 13 (virtual)
2022	"Real-time geography: Modeling space-time accessibility at high spatial and temporal resolution," <i>Fourth International Time Geography Conference</i> , Lund, Sweden, August 19.
2022	"Why is sustainable mobility so hard? Some observations on the paths forward," Kick-off Event, Center for Sustainable Future Mobility, ETH-Zurich, Zurich, Switzerland, May 6.
2021	"Urban observatory science: Leveraging geospatial data and real-world experimentation for sustainability," <i>Chinese Professionals in Geographic Information Sciences annual meeting</i> (virtual), November 4.
2021	"Mobility matters: Why sustainable transportation is essential to our future (and why public transit is key)," <i>Ohio Public Transit Association</i> , Akron, Ohio, September 17.
2019	"Respect complexity: Data-enabled sustainable urban systems science," inaugural Earth Day workshop, KDD2019: 25 th ACM SIGKDD Conference on Knowledge Discovery and Data Mining, Anchorage, Alaska, August 5.
2018	"Data-driven geography: Some big thoughts about GIScience in an era of plenty," <i>Vince Ebert Distinguished Lecture</i> , Department of Geography, University at Buffalo (SUNY), October 5.
2018	"Can we build data-driven geographic knowledge?" Workshop on Spatial Big Data and Machine Learning in GIScience, GIScience 2018, Melbourne, Australia, August 28.
2018	"Data-driven geography: Some big thoughts about GIScience in an era of plenty," Spatial Analysis and Modeling/Geographical Analysis Plenary, American Association of Geographers annual meeting, New Orleans, LA, April 12
2018	"Data-driven geography: Some big thoughts about GIScience in an era of plenty," Jack and Laura Dangermond Lecture, Department of Geography, University of California, Santa Barbara, Santa Barbara, California, March 8.
2017	"The Columbus smart city project: Big opportunities, big challenges," workshop on <i>The Social and Environmental Implications of Smart Cities: Towards a Global Comparative Research Agenda</i> , Calgary, Canada, August 16 (with Carla Bailo, Ohio State University)
2017	"Big Data for healthy places: Building healthier environments through

opportunistic GIScience," GI-Forum, Salzburg, Austria, July 5.

2016

opportunistic GIScience," *16th Annual Malcolm Comeaux Lecture*, School of Geographical Sciences and Urban Planning, Arizona State University, March 14th.

"Big Data for healthy places: Building healthier environments through

2015	"Data-driven geography for a speedy world," International Land Use Symposium
2015	2015, Dresden, Germany, November 12. "Data-driven geography for a speedy world," Second International Conference on
2015	Spatial Data Mining and Geographic Knowledge Services, Fuzhou, China, July 9. "Geographic information science for a speedy world," Rethink Research: University of Saskatchewan Research Intensification Series, Saskatoon, Canada, March 4.
2014	"The Moving Across Places Study (MAPS): Measuring the influence of built 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," <i>Mobile Tartu 2014: Mobile Data, Geography, LBS,</i> Tartu, Estonia, July 1.
2014	"A journey inside the space-time prism: Modeling visit probabilities within space-time prisms," <i>International Time Geography Days</i> , Linköping, Sweden, May 14 th .
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," <i>GIS Research UK (GISRUK) symposium</i> , Liverpool, UK, April 5 th .
2013	"Collaborative mobility: Using geographic information science to cultivate cooperative transportation systems," <i>Richard Murphy Lecture</i> , Department of Geography and Environmental Studies, University of New Mexico, March 22.
2012	"Space-time GIS for a crowded, connected and dynamic world," <i>Space-time GIScience and Analysis Forum</i> , State Key Laboratory of Information Engineering in Surveying, Mapping and Remote Sensing, Wuhan University, Wuhan, China, November 15.
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 Resource Research, Chinese Academy of Sciences, Beijing, China, November 13.
2012	"LBS in 2030: From sharing to collective action," LBS 2012: 9 th Symposium on Location-based Services, Munich, Germany, October 17.
2012	"Big time geography: Time geography in the era of sensed mobility," <i>Time-Geographic Information Science: a Workshop on Time-Geography, GIScience 2012: Seventh International Conference on Geographic Information Science</i> , Columbus, Ohio, September 18.
2012	"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," STGIS 2011: International Conference on Spatial Thinking and Geographic Information Sciences, 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</i> for Livable Communities: Charting a Research Agenda 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)?" Movement Pattern
2010	Analysis (MPA'10) workshop, Zurich, Switzerland, September 14. "Transparent transportation and mirror worlds," Fleming Lecture in
2010	Transportation Geography, Association of American Geographers annual meeting, April 17.
2009	"Grand transportation challenges and geographic information science," 2009 International Workshop on Geographic Information Systems for Transportation,
2000	Wuhan, China, Dec 4-6.
2009	"What about people in geographic information science?" <i>Arthur H. Robinson Lecture</i> , Department of Geography, The Ohio State University, Columbus, Ohio,
	February 19.
2008	"Geographic theory and geospatial knowledge discovery," keynote address, δ^{th}
	International Conference on Data Mining, Institute of Electrical and Electronics
	Engineers, Pisa, Italy, December 18.
2008	"Place-based versus people-based accessibility," Reta A, Hayes Lecture, 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, GISPlanet: Second International Conference and Exposition on Geographic Information, Estoril, Portugal, May 30 – June 2.
2004	"Place-based versus people-based accessibility," plenary lecture, Accessibility to
2001	Destinations: Re-thinking the Transportation Future of our Region, Center for
	Transportation Studies, University of Minnesota, November 8-9.
2003	"Trends in geographic information systems and science," keynote address,
	Geographic Information Systems for Transportation (GIS-T) annual conference
2002	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
	1101den, 11111, 110 tellioci 2-7

Other Invited Lectures and Presentations

2023	"Why is sustainable mobility so hard? Some observations on the paths forward," <i>Mobility Analytics and Planning for Human-scale Cities Lecture Series</i> , Mobility
	Lab, University of Tartu, Estonia; sponsored by the US Speaker Program, US
2022	Department of State, April 14 (virtual).
2023	"Death by design: The science behind why our streets are so dangerous,"
	Transitioning Evidence-based Road Safety Research into Practice, consensus
	study open meeting, National Academies of Science, Engineering and Medicine,
	March 1 (virtual).
2022	"How does street space influence crash frequency? An analysis using segmented
	street view imagery," Center for Injury Research and Policy, Abigail Wexner
	Research Institute, Nationwide Children's Hospital, Columbus, Ohio, October 10.
2022.	"Movement analytics for sustainable mobility," Institute of Data Science, Texas
	A&M University, February 17 (virtual).

2022	"Why is sustainable mobility so hard? Some observations on the paths forward," Department of Geography & Geographic Information Science, University of
2022	Illinois, September 23 (virtual). "Why is sustainable mobility so hard? Some observations on the paths forward," Department of Geography, Texas A&M University, September 16 (virtual).
2021	"Movement analytics for sustainable mobility," <i>SocialCars research group</i> , Leibniz University Hanover, Germany, April 15 th (virtual).
2021	"Movement analytics for sustainable mobility," <i>Great Problems, Great Minds lecture series</i> , Illinois Institute of Technology, March 4 (virtual).
2020	"Movement analytics for sustainable mobility," <i>Yi-Fu Tuan Lecture Series</i> , Department of Geography, University of Wisconsin- Madison, November 13
2020	(virtual). <i>Post-Pandemic City Futures</i> , panel discussion, Spatial Analysis and Data (SAD) 2020 webinar series, Newcastle University, University of Bristol and the Alan Turing Institute, October 6. (virtual)
2020	"Smart Columbus performance measurement plan," <i>Institute of Transportation Engineers webinar</i> , September 14 (co-presenters: Andrew Wolpert – City of Columbus; Diane Newton – HNTB; Christopher Toth – WSP and Rama Boyapati – Battelle) (virtual).
2019	"Towards sustainable mobility: New measures and methods for 21st century transportation," Department of Geography, McGill University, Montreal, Canada, October 18.
2019	"Geospatial data for healthy places: Building environments for active living through opportunistic GIScience," <i>Methods: Mind the Gap Webinar Series</i> National Institutes of Health Office of Disease Prevention (ODP), September 19; https://prevention.nih.gov/education-training/methods-mind-gap
2019	"Using GIS to make urban mobility more sustainable," Department of Geography and Environmental Science, Hunter College, City University of New York, May 1.
2018	"Data quality standards when integrating geospatial data sets," panel discussion, Federal Committee on Statistical Methodology, Geospatial Interest Group (GIG) Workshop, Washington DC, October 26.
2017	"The Columbus smart city project: Big opportunities, big challenges," Warwick Institute for the Study of Cities, University of Warwick, Coventry, UK, November 9.
2017	"Data-driven geography: Some big thoughts for Geographic Information Science in an era of plenty," Centre for Interdisciplinary Methodology, University of Warwick, Coventry, UK, November 8.
2017	"Data-driven geography: Some big thoughts for Geographic Information Science in an era of plenty," Department of Geography, University of Leicester, Leicester, UK, November 7.
2017	"Big data for healthy places: Building healthier environments through opportunistic GIScience," Centre for Advanced Spatial Analysis, University
2017	College London, London, UK, November 6. "Data-driven geography: Some big thoughts for Geographic Information Science in an era of plenty," Center for Geographic Information Science, University of Maryland. November 1

2017	"The Moving Across Places Study (MAPS): Public transit, physical activity and walking route choice," From Observations to Predictions of Movement, Dagstuhl
2017	seminar 17282, Schloss Dagstuhl, Wadern, Germany, July 10. "Big data for healthy places: Building healthier environments through opportunistic GIScience," Institute for Cartography and Geoinformation, ETH-Zurich, Zurich, Switzerland, June 1.
2017	"Big data for healthy places: Building healthier environments through opportunistic GIScience," Department of Geography and the Environment, University of Denver, May 17.
2017	Panel discussion on university partnerships for fostering smart cities, College of Engineering, University of Denver, May 16.
2017	"Big data for healthy places: Building healthier environments through opportunistic GIScience," <i>Big Data in Cities: Barriers and Benefits Symposium</i> , Brantford, Ontario, Canada, May 8.
2017	"Using GIS to make urban mobility more sustainable," webinar, Geographical Sciences Committee, National Academies of Sciences, Engineering and Medicine, 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 lecture series, College of Public Health, The Ohio State University, September 30.
2015	"Green accessibility: Estimating the environmental costs of space-time prisms in 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 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,
2014	China, July 16-18. "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," <i>Big Data Future</i> 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,
2011	McMaster University, Hamilton, ON, Canada, March 27. "Mobility in geospaces: What can we say analytically (so far)?" Institute for
2011	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 –
2010	Australia (NICTA), University of New South Wales, Sydney, Australia, March 21. "Mobility in geospaces: What can we say analytically (so far)?" International
_010	Institute for Geoinformation Science and Earth Observation, University of Twente,
2010	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
2009	Institute, West Virginia University, Morgantown, WV, October 8. "What about people in geographic information science?" Department of
2009	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
2008	Engineering Division, Oak Ridge National Laboratory, January 25. "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
2007	Geography, Florida State University, Tallahassee, Florida. November 16. "GIS tools for measuring accessibility in real and virtual spaces," National e-
2007	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.
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
2006	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.
	Sensor of Friendlessen, Tonigham Christopy, Dorjing, China, May 17.

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 Lake City, UT, January 18.
2005	"Place-based versus people-based accessibility," Department of Geography, 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 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 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 Utah, September 9.
2004	"What are geographic information systems? And where are they going?" <i>Guy F. Atkinson Distinguished Lecture Series</i> , Department of Geology and Geophysics, University of Utah, January 22.
2003	"Geospatial and spatio-temporal knowledge discovery: Overview and agenda," plenary lecture <i>Geospatial Visualization and Knowledge Discovery Workshop</i> , Lansdowne, VA, November 17-20.
2003	"Mapping and measuring space-time accessibility in network and multidimensional spaces," Department of Geography, Arizona State University, 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 Research (NETHUR), University of Utrecht, The Netherlands, October 30.
2003	"GIS tools for measuring space-time accessibility in transportation networks," Institute for Geoinformatics, University of Münster, Münster, Germany, May 23.
2002	"GIS tools for measuring space-time accessibility in transportation networks," 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," Institute for Infrastructure, Royal Institute of Technology, Stockholm, Sweden, December 4.
2001	"GIS tools for measuring space-time accessibility in transportation networks," Centre for Advanced Spatial Analysis (CASA), University College London (cosponsored 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 <i>Visiting Geographic Scientist Program</i> .

2000	"GIS tools for measuring space-time accessibility within transportation networks," <i>Geographic Information Science and the Disciplines Lecture Series</i> , 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.
1999	"Measuring space-time accessibility within transportation networks," Department 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

2023	GIScience in an Age of Disruption, specialist meeting, University of California at
	Santa Barbara, Dec 7-9.
2020	Roundtable on Geospatial Knowledge Infrastructure, United States Geological
	Survey, United Nations Statistical Division and Geospatial Media and
	Communication, online, July 30.
2020	Multimodal Mobility and Accessibility Measures for National-Level Performance
	Management, Scenario Analysis and Policy Studies, Federal Highway
	Administration, U.S. Department of Transportation, March 3.
2017	From Observations to Predictions of Movement, Dagstuhl seminar 17282, Schloss
	Dagstuhl, Wadern, Germany, July 9-14.
2016	PhD workshop, GIScience Doctoral College, University of Salzburg, Salzburg,
	Austria, July 4.
2016	The Japan-US Round Table for Innovation and Collaboration in Super Smart
	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.
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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, <i>Transportation Security Against Terrorism</i> , 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-Identifying Data, Committee on the Human Dimensions of Global Change, National Research Council, U.S. National Academies, Washington DC, December 9-10.
2005	GPS and Time-Geography Applications for Activity Modeling and Microsimulation, Center for Spatially Integrated Social Sciences, University of 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, <i>Geographic Information Systems for Transportation (GIS-T) and Intelligent Transportation Systems (ITS)</i> , 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, <i>Symposium on Analytical Economic Geography and Regional Change</i> , 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.

Papers and Panels at Professional Conferences

Attached as an appendix.

2005

2004

Conference and Workshop Organization

Organizer/Program Director		
2017	Program co-chair (with Kathleen Stewart), University Consortium for Geographic	
	Information Science Symposium, May 23-25, Arlington, VA.	
2014	Co-organizer (with Piyushimita (Vonu) Thakuriah), workshop on Big Data and	
	Open Data for Transportation Services and Public Engagement, 93rd 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	
2010	U.S. Federal Highway Administration and the Transportation Research Board.)	
2010	Co-organizer (with Piyushimita (Vonu) Thakuriah), workshop on <i>Pervasive Data</i>	
	for Transportation: Innovations in Distributed and Mobile Information Discovery	
	in Intelligent Transportation Systems and Location-Based Services, 90th annual	
2000	meeting of the Transportation Research Board, Washington, DC, January 23-27.	
2008	General chair, GIScience 2008: Fifth International Conference, Park City, Utah,	
2007	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	
2006	Administration and the Transportation Research Board. Program co-chair (with Andrew Frank and Michael Goodchild), <i>GIScience 2006</i> :	
2000	Fourth International Conference, Münster, Germany, September 20-23.	
	Tourn International Conference, Munister, Octimany, September 20-23.	

Organizer and Chair, Societies and Cities in the Age of Instant Access, research

Program co-chair (with Max Egenhofer and Christian Freska) GIScience 2004:

symposium, University of Utah, Salt Lake City, UT, November 10-12.

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

Steering/Program/Sci	ientific Committees
2023	Program committee, University Consortium for Geographic Information Science
	annual symposium, New Haven, CT, June 6-9.
2022 - present	GIScience biennale conference steering committee.
2022	Moving Ohio Forward: Statewide Sustainable Transportation Conference
	(online), April 21.
2022	17th International Conference on Location-based Services, Munich, Germany,
	September 12-14.
2022	Mobile Tartu 2020: Mobile Data, Geography, LBS, Tartu, Estonia, June 28-30.
2021	ACM SIGSpatial 1st international workshop on Animal and Movement Ecology
	and Human Mobility (HANIMOB 2021), November.
2020	GIScience 2020, Poznan, Poland, September 15-18.
2020	Mobile Tartu 2020: Mobile Data, Geography, LBS, Tartu, Estonia, June 29-July
	1.
2018	Mobile Tartu 2018: Mobile Data, Geography, LBS, Tartu, Estonia, June 27-29.
2018	14th International Conference on Location-Based Services, Zurich, Switzerland,
	January 15-17.
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: 12th 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	GIScience 2014: 8 th International Conference on Geographic Information
2011	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
2013	Science, Orlando, Florida, November 5.
2013	GIS Ostrava 2013: Geoinformatics for City Transformations, Ostrava, Czech
2013	Republic, January 21-23.
2013	Mobile Ghent 2013, Ghent, Belgium, October 24-25.
2013	Conference on Spatial Information Theory 2013 (COSIT), Scarborough, UK,
2013	September 3-5.
2012	Fifth International Workshop on Computational Transportation Science (IWCTS
2012	2012), Redondo Beach, CA, November 6.
2012	LBS 2012: 9 th Symposium on Location-based Services, Munich, Germany, October
2012	16-18.
2012	GIScience 2012: 7 th International Conference on Geographic Information
2012	Science, Columbus, Ohio, September 18-21.
2012	Time-Geographic Information Science: A workshop on Time-Geography, in
2012	conjunction with GIScience 2012, Columbus, Ohio, September 18.
2012	Mobile Tartu 2012: Mobile Phones, Geography and Location-based Services,
2012	Tartu, Estonia, August 22-25.
2011	4th ICA Workshop on Geospatial Analysis and Modeling, Vancouver, B.C.,
2011	Canada, August 10-12.
2011	Geoinformatics 2011: 19th International Conference on Geoinformatics
2011	Shanghai, China. June 24-26.
2011	International Conference on Spatial Data Mining and Geographical Knowledge
2011	Services (ICSDM), Fuzhou city, China, June 29 – July 1.
2011	STGIS 2011: International Conference on Spatial Thinking and GIS, Tokyo,
2011	Japan, September 14-16.
2011	Worldwide Symposium on Transport and Land Use Research (WSTLUR).
2011	Whistler, BC, July 28-30.
2010	1st ACM SIGSPATIAL International Workshop on Data Mining for
2010	Geoinformatics (DMGI), San Jose, California, November 2.
2009	International Workshop on Geographic Information Systems for Transportation
2007	(GIS-T), Wuhan, China, December 4-6.
2009	Second International Workshop on Computational Transportation Science,
2007	Seattle, Washington, November 3.
2009	Conference on Spatial Information Theory, Aber Wrac'h, France, September 21-
2007	25.
2008	First International Workshop on Computational Transportation Science, Trinity
2000	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
2000	and Built Environment, Guangzhou, China, June 28-30.
2007	GI Days: Young Researcher Forum, Münster, Germany, September 9-12.
2001	of Days. Towng Researcher Forum, Munister, Octiliany, 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	GIScience 2002, 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	GIScience 2000, 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.
Outreach Activities 2024	"Ghost Neighborhoods of Columbus: Driving Park and Hanford Village,"

2021	Chest reignormous of columns. Britis Tank and Tankord vinage,
	Columbus Metropolitan Library, Driving Park branch, March 7.
2024	"Mobility matters: Why sustainable transportation is essential to our future
	(and why public transit is key)," Difficult Topics: Climate Justice Workshop for
	Central Ohio Teachers, organized by Byrd Polar and Climate Research Center,
	The Ohio State University, March 2.
2024	"Using machine learning to extract data from historical maps: the Ghost
	Neighborhoods of Columbus project," Mid-Ohio Regional Planning Commission
	(MORPC) Data Day conference, February 7.
2023	"The ghost neighborhoods of Columbus project," State of Ohio State Historical
	Preservation Office, December 1.
2023	"Mapping ghost neighborhoods," Heritage Ohio conference, Dayton, Ohio,
	October 12.
2023	Panelist, Urban Shift: Columbus' Climate Future and You, Ohio Environmental
	Council Emerging Leaders, Columbus Metropolitan Library: Northside Branch,
	Columbus, Ohio, September 26.
2023	Panelist, Regional Traffic Safety Summit, Mid-Ohio Regional Planning
	Commission, Columbus, Ohio, September 21.
2023	"Death by design: The science behind why our streets are so dangerous," Science
	'N Suds, Parsons North Brewing, Columbus, Ohio, September 13.
2023	"The Ghost Neighborhoods of Columbus project," Columbus Landmarks
	Conference, Columbus, Ohio, May 15.
2023	"Electric, Autonomous and Green: The Future of Personal Transportation," panel
	discussion, Columbus Metropolitan Club, Columbus, Ohio, May 3.
2023	"Death by design: The science behind why our streets are so dangerous, and what
	we can do about it," Ohio Traffic Safety Council, Ohio Department of
	Transportation, Columbus, Ohio, May 3.

2023	"Death by design: The science behind why our streets are so dangerous, and what we can do about it," <i>Columbus Science Pub</i> , Shadowbox Theater, Columbus, Ohio, February 2.
2022	"Making plans in unprecedented times," panel discussion, Summit on Sustainability, Mid-Ohio Regional Planning Commission, Columbus, Ohio, October 14.
2022	"New data for understanding and planning public transit," joint presentation, <i>Ohio Public Transit Association annual meeting</i> , Columbus, Ohio (with Jason Schenk, Devayani Puranik – Central Ohio Transit Authority; Luyu Liu, Armita Kar – The Ohio State University), September 16
2022	"How does street space influence crash frequency? An analysis using segmented street view imagery," presentation and discussion, Strategic Highway Safety Plan Steering Committee, Ohio Department of Transportation, Columbus, Ohio, June 17 (with Jonathan Stiles).
2022	"Bexley Community Meeting: LinkUs Informational Event," <i>Bexley City Hall</i> , Bexley, Ohio, March 21
2022	"LinkUS Columbus and Bexley: Sustainable transportation for the future," <i>Bexley Public Library</i> , Bexley, OH, January 26.
2021	"A return to the 15-Minute city," panel discussion, <i>Regional Housing Strategy Speaker Series Session IV</i> , Mid-Ohio Regional Planning Commission, Columbus, Ohio, August 20.
2021	"Trends that will shape us: Transportation," panel discussion, <i>Columbus Metropolitan Club</i> , Columbus, Ohio, April 7.
2020	Impacts of COVID-19 on Mobility, panel discussion, College of Arts and Sciences, College of Engineering, and OSU Alumni Association, The Ohio State University, July 29.
2020	<i>Transit Columbus</i> Happy Hour from Home: Vol. 5 - Special Guest Harvey Miller; April 29; https://www.facebook.com/events/945964109152850/
2020	Judge, Network of Schools of Public Policy, Affairs, and Administration (NASPAA) - Batten Student Simulation Competition, John Glenn College of Public Affairs, The Ohio State University, March 7.
2020	"Mobility matters: Why sustainable transportation is essential to our future," lecture, <i>Experience Arts and Sciences Day</i> , The Ohio State University, February 8.
2020	Panel discussion organizer and moderator, <i>Mobility and Inclusive Communities</i> , Think Beyond Summit: Urban Universities + Thriving Communities, Ohio Union, The Ohio State University, January 28.
2019	Behind the Scenes: The Tenure Process, panel discussion, The STEAM Factory, Ohio State University, December 11.
2019	Smart Cities, Smart Data, panel discussion, Translational Data Analytics Institute (TDAI) and Office of Corporate Engagement, Ohio State University, September 13.
2019	"Transportation for our future: Why sustainable mobility is essential for our civilization and planet," <i>Columbus Science Pub</i> , Shadowbox Theater, Columbus, Ohio, September 5.
2019	Cities of Tomorrow: Infrastructure, Policy and Disruptive Technology, panel discussion, Smart Campus Student Organization, Ohio State University, April 8
2019	"Mapping the opioid crisis in central Ohio," <i>Opiate Epidemic: Impacts and Innovations</i> forum, The Ohio State University, March 5.

2019	"Mobility matters: Why sustainable transportation is essential to our future," <i>Science Sundays</i> , College of Arts and Science, The Ohio State University,
	February 17 th .
2018	"Smart transportation networks: Analytics and innovations to enhance mobility," New Member Orientation, Ohio Legislative Service Commission, The Ohio State
2018	University, November 28 (co-presented with Jiaqi Ma, University of Cincinnati). Team mentor, <i>Thrive Columbus Transportation Innovation Lab</i> , organized by Columbus City Council president Shannon Hardin and The Purple Aisle,
2018	November 16-18, Columbus, Ohio. Walkable, Bikeable Campus, panel discussion, Smart Campus Student Organization, The Ohio State University, October 18.
2018	"Big Data's Future is in Ohio: Solving Big Problems," invited speaker at luncheon with Provost Discovery Themes lecturer D.J. Patil, Columbus Collaboratory, September 19.
2018	"The Franklin County Opioid Activity Level (FOCAL) Map: Web-based data collection and mapping for understanding the opioid crisis," presentation to Franklin County addiction treatment community, organized by Amy O'Grady, Chief of Addiction Policy, Office of Columbus City Attorney Zach Klein; Wheatstone Recreation Center, Columbus, Ohio, August 24.
2018	Data for All - panel discussion about the Smart Columbus Operating System and social equity, hosted by Transit Columbus and moderated by Columbus City Council President Shannon Hardin, May 30.
2018	Columbus Smart City Hackathon, – Columbus, Ohio, event coach, May 18.
2018	"Climate change and public infrastructure" panel discussion, <i>Building Resilient Communities in a Changing Climate</i> community forum, The Ohio State Fawcett Center, May 18.
2017	<i>Hack OHI/O</i> hackathon – "hype event" speaker (October 16) and smart mobility track judge, The Ohio State University (October 22).
2017	Autonomous Vehicles, panel discussion, The STEAM Factory, Franklinton Fridays, Columbus, Ohio, May 12.
2014	Sustainable Transportation: Columbus and Beyond, panel discussion, Geography Graduate Organization, Faculty Club, The Ohio State University, March 27.
2010	"The future of transportation," invited presentation, <i>Leonardo After Hours</i> , The Leonardo Science Center, Salt Lake City, Utah, June 8.
Media	
2024	"Columbus planning \$100 million pedestrian and bike loop in downtown area," WOSU All Sides with Anna Staver, March 6.
2024	"Who gets the blame when a car hits a pedestrian? Study sheds new light," <i>WOSU News</i> , 14 February 2024.
2024	"Commute times increasing in many Ohio cities," Spectrum News 1, February 8.
2024	"A 700-mph tunnel between Twin Cities and Rochester? Group wants \$2M from Met Council for 'hyperloop' study," <i>Minneapolis Star-Tribune</i> , February 3.
2024	"2023 in Columbus: A million scooter rides, record number of CoGo trips," <i>Columbus Underground</i> , February 1.
2023	"Using new technology to observe real-time impacts on public transportation," <i>KCBS radio</i> , San Francisco, December 23.
2023	"Olentangy Trail detour through OSU campus extended through summer," <i>Columbus Dispatch</i> , November 16.

2023	"COTA targets year-out sales tax increase for \$8 billion LinkUS super-corridors,
2023	Columbus Dispatch, November 15. "Key Linden intersection to be widened, buildings demolished," Columbus
	Underground, October 26.
2023	"Conspiracy theories falsely link wildfires to 'smart cities'," Digital Journal,
2022	September 8.
2023	"How old fire insurance maps and machine learning are helping to recreate lost neighborhoods," WVXU Cincinnati, July 27.
2023	"Walking' through lost neighbourhoods possible with 3D digital maps," Engineering and Technology, June 28.
2023	"AI turns old maps of demolished neighborhoods into 3D digital models," ZME
2023	Science, June 28.
2023	"3D digital models are resurrecting lost neighborhoods," <i>Axios</i> , June 28
2023	"ODOT proposes adding SmartLanes to I-71 in Columbus," NBC4 Columbus,
	May 3.
2023	"Alum Creek Trail closure has cyclists scrambling to find safe routes," Columbus
	Underground, March 29.
2022	"Columbus city council approves funding for e-bike rebate program," Columbus
	Underground, December 13.
2022	"Tech Tuesday: Reconstructing ghost neighborhoods," WOSU All Sides with Ann
	Fisher, October 18.
2022	"Columbus neighborhoods cut up by freeways being reimagined by Ohio State
2022	researchers in 3D," Columbus Dispatch, October 16.
2022	"Researchers recreating lost neighborhoods," <i>Spectrum News 1</i> , October 10.
2022	"Redlining practices decades ago still influence life in Columbus neighborhoods,"
2022	Columbus Dispatch, October 9.
2022	"Who are the drivers going over 100 miles per hour on Utah highways?" Fox 13
	News, Salt Lake City, Utah, September 19.
2022	"Don't panic': Transportation officials discuss Intel traffic concerns," 10TV News
	Columbus, September 12.
2022	"Reckless on the road: What can be done to make Columbus streets safer?" ABC6
	News Columbus, August 3.
2022	"Will higher gas prices bring calls to expand public transit in Ohio? Probably not."
	Columbus Dispatch, July 27.
2022	"Sales tax hike for Ohio rapid public transit dropped from November ballot,"
2022	NBC4 Columbus, July 12.
2022	•
2022	"Design of roads, driver behavior creates more serious crashes," <i>Spectrum News</i>
2022	I, June 19.
2022	"Ohio State study shows city streets that look like highways contribute to serious
	crashes," Columbus Dispatch, May 27.
2022	"New proposal aimed to make streets safer goes before Cleveland City Council,"
	News 5 Cleveland, May 18.
2022	"Columbus ranks sixth-best city for commuters," NBC4 Columbus, May 18.
2022	"Ohio State study finds bus rapid transit can boost value of apartments, condos,"
	Columbus Dispatch, April 8.
2022	"Misconceptions about the proposed Indianola bike lanes," guest editorial,
	Columbus Dispatch, April 7.
2022	"Agency identifies Northeast Ohio's 10 most dangerous traffic corridors but finds
2022	driver actions cause most crashes," <i>News 5 Cleveland</i> , March 2.
	uriver actions cause most crashes, wews 3 Cleveluna, whatch 2.

2022	"Will Intel traffic create Route 161 gridlock between Columbus and Licking
2021	County?" <i>Columbus Dispatch</i> , February 16. "Scooters, Ubers, and automobiles: Sustainable transportation with Prof. Harvey Miller," <i>Prognosis Ohio</i> podcast, December 5.
2021	"Columbus prefers bike lanes with parking on parts of Indianola, others want bike lanes only," <i>Columbus Dispatch</i> , October 7.
2021	"Deadly and serious auto crashes in Franklin County more than doubled in early days of pandemic," <i>WOSU</i> , September 28.
2021	"Local e-bike startup thinking big, preparing for launch," <i>Columbus Underground</i> , September 8.
2021	"Smart Columbus: What did we learn?" Columbus Business First, July 19.
2021	"Will ODOT's new walking and biking plan make a difference?" Columbus Underground, July 17.
2021	"America's 'Smart City' didn't get much smarter," Wired, June 28th.
2021	"Backers say Smart City challenge has put Columbus ahead of its peers," <i>Columbus Dispatch</i> , June 15.
2021	"Passenger rail and the future of transportation in Ohio," <i>All Sides with Ann Fisher</i> , WOSU, June 1.
2021	"Harm reduction deserts: When services are miles or hours away," <i>Filter</i> , May 26 th .
2021	"Urban transit took a pandemic wallop. Can it bounce back?" <i>Christian Science Monitor</i> , February 25.
2021	"Ohio State study: 311 statistics can predict opiate overdose hotspots." <i>10TV News at 6</i> , (Columbus, Ohio), February 17.
2020	"As recovery bills languish, transit systems cut service," <i>CQ Roll Call</i> , December 2.
2020	"Non-drug 311 calls can indicate opioid hotspots: study," <i>Smart Cities Dive</i> , November 13.
2020	"City 311 data could predict opioid hotspots," <i>Cities Today</i> , November 13.
2020	"Study: 311 calls may predict opioid overdose hotspots," <i>UPI Health</i> , November 11.
2020	"How SUVs conquered the world – at the expense of its climate," <i>The Guardian (UK)</i> , September 1.
	Republished as: "C U, SUV: The hulking car has become the world's most
	dominant form of transportation—and one of its biggest climate threats," <i>Slate</i> September 8.
2020	"Coronavirus: Reduced driving hasn't cut Ohio traffic deaths," <i>Cincinnati Enquirer/USA Today Network</i> , July 27.
2020	"Car crashes deadlier as drivers speed during lockdowns," Reuters UK, June 26.
2020	"Traffic and speeding during the pandemic," WCPN National Public Radio, (Cleveland, Ohio), May 18.
2020	"After coronavirus cleared highways, study finds remaining drivers put hammer down," <i>ABC6 News</i> , Columbus, Ohio, May 11.
2020	"Study finds 'extreme speeding' up during pandemic," <i>WEWS TV News</i> , Cleveland, May 6.
2020	"Speeding increases on Ohio highways during Coronavirus pandemic," <i>WOSU News</i> , May 4.
2020	"Emptier roads = more speeding by Columbus drivers," <i>Columbus Underground</i> , May 4.

2020	"Columbus signs on to Vision Zero initiative," <i>Columbus Underground</i> , March 12.
2020	"Lots of people are still riding scooters in Columbus," <i>Columbus Underground</i> , January 24.
2019	"Experts: Hyperloop not ready to zip across the Great Lakes yet," <i>WCPN National Public Radio</i> , December 16.
2019	"Lyft scooters leaving Columbus by Saturday," WOSU News, November 20; https://radio.wosu.org/post/lyft-scooters-leaving-columbus-saturday
2019	"COTA and free public transportation," <i>All Sides with Ann Fisher</i> , WOSU public radio, March 4.
2019	"Harvey Miller uses new mobility data to understand cities and transportation," <i>Voices of Excellence from Arts and Sciences</i> podcast, February 13.
2018	"Future of mass transit," <i>In Focus with Mike Kallmeyer</i> , Spectrum News, September 14.
2018	"How green are the e-scooters?" <i>Columbus Underground</i> , August 20 th .
2018	"Hyperloop: All hype or the real deal?" <i>Columbus Underground</i> , March 9.
2017	"Downtown development boom continues to accelerate," <i>Columbus Underground</i> , August 10.
2017	"Proposal for Hyperloop between Chicago and Columbus receives a boost from startup," <i>Columbus Underground</i> , January 10.
2016	"Experts weigh in on Hamilton Quarter development," <i>Columbus Underground</i> , March 7.
2015	"Commuters have doubled in Columbus in the past 25 years," <i>Columbus Underground</i> , August 31.
2015	"NEXT: The most sophisticated map ever," <i>Columbus Underground</i> , December 7.
2014	"Protected bike lanes are not part of new plan for bike lanes downtown," <i>Columbus Underground</i> , September 16.
2014	"Suburban streets in Columbus more accident-prone than urban streets," <i>Columbus Underground</i> , September 15.
2013	"Utah's air quality alerts may have inadvertently put more cars on the road," <i>Atlantic Cities</i> , September 11.
2013	"Utah air alerts seem to spur — not curb — driving," Salt Lake Tribune, September 10.
2010	A VerySpatial Podcast, Episode 250: Interview on time geography and temporal GIS, posted May 2, 2010. veryspatial.com

SERVICE		
Journal Boards and Editorships		
2021 – present	International Journal of Urban Informatics	
2018 - 2023	Annals of the American Association of Geographers	
2018 – present	Applied Geography	
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.	
2009 - present	Journal of Spatial Information Science.	
2009 - 2015	International Regional Science Review.	

2008 - present 2000 - 2004 1999 - present 1998 - present 1997 - 2011	Journal of Transport and Land Use North American Editor, International Journal of Geographical Information Science. Transportation. International Journal of Geographical Information Science. Journal of Regional Science. Geographical Analysis
1996 - 2014	Geographical Analysis.

Professional Service

2022	External reviewer, Institutional Quality Assurance Process Cyclical Review, School of Earth, Environment and Society, McMaster University.
2019	Comprehensive Program Review External Evaluation Committee, Department of
2017 2010	Geography, University at Buffalo.
2017 - 2018	Methodology, Measurement and Statistics proposal evaluation panel, National Science Foundation.
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

Community Service	
2023 – present	Diversity, Equity and Inclusion working group, Regional Data Advisory
	Committee, Mid-Ohio Regional Planning Commission.
2022	Advisory committee, Undesign the Redline, YWCA of Columbus.
2022 - present	Regional Data Advisory Committee, Mid-Ohio Regional Planning Commission.
2020 - 2021	Safe People working group, Vision Zero Columbus.
2020	Smart Columbus Operating System Sustainment stakeholder group.
2019 - 2020	Advisory board, Empowerbus; https://www.empowerbus.com/
2017 - 2018	Data Technical Working Group, Smart Columbus.
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

2024 – 2026 Battelle Engineering, Technology and Human Affairs (BETHA) grant selection committee, Office of Research.

2022 – present	Smart mobility task force, Enterprise for Research, Innovation and Knowledge (ERIK).
2020 – present	The Ohio State University Alumni Association speaker list.
2020 - 2021	Smart Campus Digital Twin steering committee.
2020	JobsOhio "Big Ideas pitch" team, Office of Research.
2020 - 2021	Steering committee, Lextant Smart Mobility Living Lab, Office of Corporate
2020 2021	Engagement.
2019 - 2021	Co-convener (with Elizabeth Newton, Glenn College of Public Affairs), campus
2017 2021	geospatial initiatives discussion, Office of Research.
2019 - 2020	Sesquicentennial Summit 2: Urban-Serving University program committee, Office
2017 - 2020	of Academic Affairs.
2019	Working group on Research and Creative Expression Priorities, Office of
2019	Research.
2010	
2018	Alliance for the American Dream faculty advisory committee, Office of Academic
2010 2021	Affairs.
2018 - 2021	Smart@OhioState Committee.
2015 - 202	Urban Mission Committee, Office of Academic Affairs.
University of Utoh	
University of Utah	A d-mi- Compto II. in ancita of II.
2012 - 2015	Academic Senate, University of Utah.
2010	Innovations Scholars steering committee, Vice President Tech Venture
2000 2001	Development, University of Utah.
2000 - 2001	Information Technology task force, Office of Undergraduate Studies, University
1006 1000	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 Univ	
2017	Distinguished College Professor Committee, College of Arts and Sciences.
University of Utah	

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 Univ	<u>ersity</u>
2023 - 2024	Chair, Faculty Search Committee.
2021 - 2023	Graduate Studies Committee
2018 - 2019	Chair, Faculty Search Committee.
2017 - 2018	Chair, Faculty Search Committee.
2016 - 2017	Member, Faculty Search Committee.
2016 - 2018	Graduate Studies Committee.
2015 - 2016	Executive Committee.
2014 - 2016	Personnel Committee.
2014 - 2015	Chair, Faculty Search 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.
TEACHING	
Chaired Ph.D. comm	nittees
The Ohio State Univ	
In progress	Seyedeh Mahnoush Mostafavi Sabet.
In progress	Aniket Sangwan.
In progress	Ahmad Tokey.
2023	Armita Kar (co-advised with Huyen Le), "Inclusive accessibility: Integrating person-based hard and soft constraints into multimodal transportation planning."
2023	Luyu Liu. "Accessibility in motion: Measuring real-time accessibility with dynamic data."
2022	Yuchen Li, "Spatial-temporal methods for understanding the dynamics of the opioid overdose epidemic and its community context."
2020	Young Jaegal, "Measuring the similarity in network time prisms and field-time prisms."
2020	Jinhyung Lee, "Building ladders of opportunity: Understanding the impacts of new mobility services on space-time accessibility"
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"
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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

analyze and communicate transportation systems"

Phoebe McNeally, "Holistic geographical visualization of spatial data with

Nobbir Ahmed, "Time-space transformations of geographic space to explore,

on activity behavior data."

applications in avalanche forecasting"

2007

2005

2003

Membership on Ph.D. Committees

The Onio State Oniversity	The	Ohio	State	University	7
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In progress	Zekun Li, City and Regional Planning.
In progress	Carissa Moore, College of Public Health.
2022	Basar Ozbilen, City and Regional Planning.

2021 Katie Kupala, Geography. (qualifying examination only)

Jialin Li, Geography.

2022 Kihyun Kwon, City and Regional Planning.

2017 Yongha Park, Geography. 2016 Bo Zhao, 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

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)

2017. Monireh Mahmoudi, School of Sustainable Engineering and the Built

Environment, Arizona State University.

Chaired Master's Committees

The Ohio State University

In progress	John Layman. "Measuring accessibility impacts of future Bus Rapid Transit lines
	on Columbus, Ohio."
2020	Blake Acton. "The effect of bus rapid transit (BRT) on property values: A broad
	comparison of multiple systems in the United States."
2019	Luyu Liu. "Measuring public transit transfer risk using high-resolution schedule
	and real-time bus location data."
2019	Jared Schenkel. "Assessing the impact of public transit system redesign on social
	equity using space-time accessibility measures."

University of Utah

Chiversity of Ctan	
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."
2001	Bertrand Granberg, "Automated routing and truck permitting system for Utah
	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."
1995	John Lowry, "GIS modeling of hazardous material vulnerability at the U.S
	Mexico border."

Membership on Master's Committees

The (Ohio	State	Unive	rsitv

In progress	Priyanka Chowdhury, Design.
In progress	Jordan Inskeep, School of Environment and Natural Resources.
2021	Phani Kumar Atyam, Computer Science and Engineering.
2021	Drasti Bhimani, Computer Science and Engineering.
2020	Zhihao Wang, Geography.
2020	Yuxiao Zhao, Geography.
2019	Nikhil Shandilya, Computer Science and Engineering.
2019	Claire Jones, Geography.
2016	Chengbi Liu, Geography.
2015	Peixuan Jiang, Geography.

University	or cum	

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.

Post-doctoral Supervision

The Ohio State University

Jonathan Stiles. Projects: 1) Sustainable Columbus Observatory; 2) Columbus pedestrian and cyclist crash data visualization.

2017 - 2018 Yongha Park. Projects: 1) Columbus Urban and Regional Information Observatory (CURIO) data dashboard; 2) analysis of real-time bus data; 3) SNAP-Ed multilevel marketing map.

Other Student Supervision

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Unive	rcity	Ωt	I∃tah
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2012 - 2013 Kyle Borens, Innovation Scholars Program. Topic – autonomous, networked vehicles and the future of transportation.

External Thesis Examinations

2022	Dissertation examiner, Bochu Liu, Department of Geography and Planning, University of Toronto.
2020	Dissertation examiner, Dominik Bucher, Department of Civil, Environmental and Geomatic Engineering, ETH-Zurich, Zurich, Switzerland.
2018	Dissertation examiner, Bartosz Hawelka, Faculty of Natural Sciences, University of Salzburg, Salzburg, Austria.
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)

<u>Term</u>	Course number and title	Enrollment
Spring 2022	GEOG 5301 Sustainable Transportation	34
	GEOG 3300 Transportation Security	70
Autumn 2021	(teaching release)	N/A
Spring 2021	GEOG 5301 Sustainable Transportation	22
Autumn 2020	(teaching release)	N/A
Spring 2020	GEOG 5301 Sustainable Transportation	26
Autumn 2019	(teaching release)	N/A
Spring 2019	GEOG 5301 Sustainable Transportation	21

Autumn 2018	GEOG 5226 Spatial Simulation and Modeling in GIS	49
Spring 2018	GEOG 5212 Geospatial Databases for GIS	48
Autumn 2017	GEOG 5226 Spatial Simulation and Modeling in GIS	50
Spring 2017	GEOG 5212 Geospatial Databases for GIS	49
Autumn 2016	GEOG 5226 Spatial Simulation and Modeling in GIS	50
Spring 2016	GEOG 5212 Geospatial Databases for GIS	49
Autumn 2015	GEOG 5226 Spatial Simulation and Modeling in GIS	50
Spring 2015	GEOG 5223 GIS Design and Implementation	48
Autumn 2014	GEOG 5221 GIS Simulation and Modeling	40
Spring 2014	GEOG 3597.03 Environmental Citizenship	12
	GEOG 5223 GIS Design and Implementation	26
Autumn 2013	GEOG 5224 Emerging Topics in GIS	16

Guest Instruction

2011	Erasmus Mundus Master in Geospatial Technologies, Institute for
	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.

APPENDIX: Presentations at Professional Conferences		
Papers/Posters		
2024	Kar. A., Le, H. and Miller, H.J. "Inclusive accessibility: Translating person-based mobility perceptions into aggregated accessibility measures," <i>Transportation Research Board</i> , Washington, DC, January 7-11 (poster).	
2024	Liu, L. and Miller, H.J. "Accessibility derivative: Measuring the contribution of public transit routes to systemwide accessibility," <i>Transportation Research Board</i> , Washington, DC, January 7-11 (poster).	
2023	Kar, A., Miller, H.J. and Le, H. T.K. "Inclusive Accessibility: Translating personbased mobility perceptions into an aggregated measure," <i>American Association of Geographers</i> , Denver, CO, March 23-27 (presented by last author).	
2023	Lin, Y., Porr, A., Li, J., Logan, G., Xiao, N. and Miller, H.J. "Creating high resolution, three-dimensional digital models of historic urban neighborhoods from Sanborn Fire Insurance maps using machine learning," <i>American Association of Geographers</i> , Denver, CO, March 23-27 (presented by last author)	
2023	Liu, L. and Miller, H.J. "Accessibility derivative: Measuring the accessibility contribution of public transit routes," <i>American Association of Geographers</i> , Denver, CO, March 23-27 (presented by first author)	
2023	Liu, L. and Miller, H.J. "Disparities in public transit accessibility and usage by people with mobility disabilities: An evaluation using high-resolution transit data," <i>Transportation Research Board Annual Meeting</i> , Washington DC January 8-12 (poster)	
2023	Liu, L. and Miller, H.J . "Measuring the impacts of disruptions on the delivery of reliable accessibility by public transit systems," <i>Transportation Research Board Annual Meeting</i> , Washington DC January 8-12 (poster)	
2022	Miller, H.J. "The Ghost Neighborhoods of Columbus project," <i>Big Ten Academic Alliance GIS Conference</i> , November 15.	
2022	Liu, L., Kar, A., Tokey, A.I., Le, H.T.K., Miller, H.J. "Evaluating disparities in public transit accessibility and usage of wheelchair users with high-resolution transit data," <i>Network on European Communication and Transport Activity Research (NECTAR)</i> , Toronto, Canada, July 20-22 (presented by senior author).	
2022	Kar, A., Le, H.T.K., Miller, H.J. "Inclusive Accessibility – A deep learning-based space-time framework integrating person-based hard and soft constraints," <i>American Association of Geographers</i> , February 25 – March 1 (virtual). (presented by first author)	
2022	Li, Y., Miller, H.J. , Hyder, A., Root, E., Desheng, L. "Understanding the role of urban social and physical environment in opioid overdose event using found geospatial data," <i>American Association of Geographers</i> , February 25 – March 1 (virtual). (presented by first author)	
2022	Liu, L., Porr, A. and Miller, H.J . "Realizable accessibility: Evaluating the reliability of public transit accessibility using high-resolution real-time data," <i>American Association of Geographers</i> , February 25 – March 1 (virtual).	
2021	Kar, A., Le, H.T.K, Carrel, A.L., Motoyama, Y. and Miller, H.J. "Impact of COVID-19 on food shopping: A spatio-temporal analysis of changes in travel to supermarket and grocery stores," <i>Transportation Research Board</i> , virtual, January 21-29 (poster)	
2019	Miller, H.J., Hyder, A., Dundon, A., Hammond, G., Lee, J., Porr, A., Southerland, L. "Recovery deserts: Identifying neighborhoods underserved by opioid treatment and recovery services," <i>American Association of Geographers</i> , Washington DC,	

	April 3-7.
2019	Liu, L. and Miller, H.J. "Measuring and analyzing public transit transfer risk using
	high resolution schedule and real-time data," American Association of
	Geographers, Washington DC, April 3-7 (presented by first author).
2019	Lee, J. and Miller, H.J. "Analyzing collective accessibility using average space-
	time prisms," American Association of Geographers, Washington DC, April 3-7
	(presented by first author).
2019	Jaegal, Y. and Miller, H.J. "Measuring the semantic similarity of network-time
	prisms using temporal signatures," American Association of Geographers,
	Washington DC, April 3-7 (presented by first author).
2019	Akar, G., Irwin, E., Miller, H.J., Ozblien, B., Porr, A. and Xiao, N. "The
	Sustainable Columbus Observatory (SCO): Measuring community progress
	towards sustainability and resilience," Ohio State University Community
	Engagement Conference: Partnering for a Resilient and Sustainable Future,
	Columbus, Ohio, January 23-24 (hour-long session with joint presentations by
2010	first, third and fourth authors).
2019	Miller, H.J. "Mobility matters: New data and tools to support sustainable
	transportation planning," Ohio State University Community Engagement
	Conference: Partnering for a Resilient and Sustainable Future, Columbus, Ohio,
2010	January 23-24.
2019	Lee, J. and Miller, H.J. "Measuring accessibility equity using average space-time prisms," <i>Transportation Research Board</i> , Washington DC. January 13-17
	(presented by second author).
2018	Lee, J. and Miller, H.J. "Measuring and comparing individual and collective
2016	accessibility using average space-time prisms," GIScience 2018, Melbourne,
	Australia, August 29-31 (presented by second author).
2018	Lee, J. and Miller, H.J. "Measuring and comparing individual and collective
2010	accessibility using average space-time prisms," <i>Mobile Tartu</i> , Tartu, Estonia, June
	27-29 (presented by second author).
2018	Lee, J., Miller, H.J. , Irwin, N. and Irwin, E. "Measuring spatial polarization and
	inequality in cities using housing transaction big data," American Association of
	Geographers, New Orleans, LA, April 10-14 (presented by first author).
2018	Jaegal, Y. and Miller, H.J. "Similarity measures for network time prisms based
	on graph-theoretic measures: An experimental analysis," American Association of
	Geographers, New Orleans, LA, April 10-14 (presented by first author).
2018	Park, Y. and Miller, H.J. "Empirical assessment of public transit performance
	using General Transit Feed Specification (GTFS) static and real-time feeds: A case
	study of bus operations in Columbus, Ohio," American Association of
	Geographers, New Orleans, LA, April 10-14 (presented by first author).
2018	Lee, J. and Miller, H.J., "Measuring the impacts of new public transit services on
	space-time accessibility," Transportation Research Board, Washington DC,
	January 7-11 (presented by first author).
2017	Lee, J. and Miller, H.J., "Measuring changes in space-time accessibility before
	and after transportation innovations," American Association of Geographers,
	Boston, MA, April 4-9 (presented by first author).
2017	Jaegal, Y. and Miller, H.J., "Similarity measures for network time prisms,"
	American Association of Geographers, Boston, MA, April 4-9 (presented by first
2017	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,
2017	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," Transportation Research Board,
	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
	Meetings of the Regional Science Association International, Minneapolis, MN,
	Nov. 9-12 (presented by first author).
2016	Jaegal Y. and Miller H.J., "Similarity measures for network time prisms,"
	GIScience 2016, 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
	Geographers, 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," Association of American Geographers, 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
	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
	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," Association of
	American Geographers, 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," Association of American Geographers, 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," Association of American Geographers, Chicago, IL, April 21-25
2015	(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," Moving
	Active Transportation to Higher Ground: Opportunities for Accelerating the
2015	Assessment of Health Impacts, 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</i>
	Research Board, 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?" Transportation Research
	Board, Washington, DC, January 11-15 (poster).
2015	Tong L., Zhou X. and Miller H.J., "Improving accessibility for individual
	travelers through network design models," Transportation Research Board,
	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," GIScience 2014, 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," World Symposium on Land-use
	Transportation Research (WSTLUR), Delft, The Netherlands, June 24-27
2014	(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," Association of
2014	American Geographers, 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," Association of American Geographers, Tampa,
2012	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
2013	Comparison of activity space metrics," Association of American Geographers, 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
2013	Across Places Study (MAPS): Analyzing the time, place and context for active
	transportation behavior using geospatial science and technologies," Association of
	American Geographers, Los Angeles, California, April 9-13 (presented by second
	author).
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
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	assis, the cover, time, and space, involve but the continues, in
	conjunction with Pervasive 2012" Tenth International Conference on Pervasive
• • • • • • • • • • • • • • • • • • • •	Computing, Newcastle, UK, 18-19 June (presented by second author).
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," <i>Association</i>
2011	
	of American Geographers, New York City, NY, 24-28 February (presented by first
2011	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
	of American Geographers, Seattle, Washington, April 12-16 (presented by first
	author).
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
_010	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,
2010	DC, April 13-18 (presented by first author).
2010	Kobayashi T. and Miller H.J. , "Exploratory visualization of mobile object data in
	attribute-time space," Association of American Geographers, Washington, DC,
2010	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, Western Regional Science Association,
	Sedona, AZ, February 21-14 (presented by second author).
2009	Miller H.J., "Measuring accessibility in complex travel environments using time
	geographic fields, Utah Geographic Information Council, Midway, Utah, April
	13-17.
2009	Miller H.J., Kobayashi T. and Othman W., "Error in space-time prisms and their
	intersections," Association of American Geographers, Las Vegas, Nevada, March
	22.27

users, land cover, time, and space," Mobile Data Challenge workshop, in

22-27.

Kobayashi T. and Miller H.J., "An interactive visualization tool for mobile 2009 objects," Association of American Geographers, 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. Upchurch C. and Miller H.J., "Dynamic accessibility using space-time paths for 2008 public and private transit," Association of American Geographers, Boston, MA, April 15-19 (presented by first author). Kobayashi T. and Miller H.J., "An interactive visualization tool for mobile 2008 objects," Association of American Geographers, Boston, MA, April 15-19 (presented by first author). 2008 Neutens T., Schwanen T. and Miller H.J., "Measuring meeting possibilities," Association of American Geographers, Boston, MA, April 15-19 (presented by first author). Miller H.J. and Bridwell S.A., "Time geographic fields: A general velocity theory 2007 for time geography," GeoComputation 07, Maynooth, Ireland, 3-5 September. Miller H.J. "Time geographic fields: A continuous velocity theory for time 2007 geography," Association of American Geographers, San Francisco, CA, April 17-2007 Bridwell S.A. and Miller H.J. (presented by first author) "Disclosure limitation methods for activity-travel data," Association of American Geographers, San Francisco, CA, April 17-21 2007 Sobek A. and Miller H.J. (presented by first author) "Methods for comparing space-time paths," Association of American Geographers, San Francisco, CA, April 17-21. Upchurch C. and Miller H.J. (presented by first author) "Optimum Facility 2007 Location and Scheduling Using Space-Time Prisms," Association of American Geographers, San Francisco, CA, April 17-21. McNeally P.B. and Miller H.J. (presented by first author), "Holistic geographic 2006 visualization of spatial data with applications in avalanche stability monitoring," Association of American Geographers, 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," Association of American Geographers, 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," Association of American Geographers, Denver CO, April 5-9. 2005 Bridwell S.A. and Miller H.J. (presented by first author), "Locational privacy metrics for mobile objects," Association of American Geographers, Denver CO, April 5-9. 2004 Miller H.J., "Necessary space-time conditions for social interaction," Association of American Geographers, Philadelphia, PA, March 14-19. Miller H.J., "A measurement theory for time geography," Western Regional 2004 Science Association, Maui, Hawai'i, February 25-28. Miller H.J., Wu Y.-H. and Ming-Chih Hung, "A GIS toolkit for assessing 2003 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 25-29. Miller H.J., "Accessibility and uncertainty: Space time paths and prisms under 2002 imperfect information," Association of American Geographers, Los Angeles, CA, March 19-23. 2001 Wu Y.-H. and Miller H.J. (presented by second author), "Computational tools for measuring space-time accessibility in networks with dynamic flow," North American meetings of the Regional Science Association International, Charleston, SC, November 15-17. 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 Y.-H. 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 Y.-H., "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 7-2000 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, England, September 3-7. 1999 Miller H.J. and Wu Y.-H., "Measuring space-time accessibility in the presence of dynamic network congestion," European Congress of the European Regional Science Association, Dublin, Ireland, August 23-27. 1999 Miller H.J., Wu Y.-H. and Hung M., "GIS-based dynamic traffic congestion modeling to support time-critical logistics," Association of American Geographers, Honolulu, Hawai'i, March 23-27. 1999 Solomon V. and Miller H.J., ""Non-uniform spatial propagation in facility location techniques using GIS," Association of American Geographers, Honolulu, Hawai'i, March 23-27 (presented by first author). 1999 Miller H.J., Wu Y.-H. 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 Y.-H. 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," European Regional Science Association Congress, Vienna, Austria, August 28 - September 1. 1998 Miller H.J. and Wu Y.-H., "Beyond throughput: Using GIS to model and map accessibility in transportation planning and analysis," GISPlaNet '98, Lisbon, Portugal, September 9 - 12. 1998 Miller H.J., Wu Y.-H. and Hung M., "GIS-based dynamic traffic congestion modeling," Geographic Information Systems for Transportation (GIS-T), Snowbird, UT, April 20-24.

1998 Miller H.J., "Measuring space-time accessibility benefits within transportation 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 Association, Monterey, CA, February 28-22. Miller H.J. and Ray J., "GIS software for dynamic congestion analysis in time-1997 critical logistics, GIS/LIS'97, Cincinnati, Ohio, October 28-30. 1997 Solomon V. and Miller H.J., "Using GIS to locate emergency warning sirens in rugged terrain," GIS/LIS'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). Miller H.J., "Solving location and layout problems using GIS and simulated 1996 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. Miller H.J. and Storm J.D., "GIS design for a simultaneous transportation 1996 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) Miller H.J., Storm J.D. and Bowen M., "GIS design for multimodal transportation 1995 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 demand analysis," Western Regional Science Association, San Diego, California, February 22-26th. Finco M.V., Hepner G.F. and Miller H.J., "GIS modeling of contaminant 1994 pathways and human exposure in the Nogales region of the Mexico - U.S. border,"

GIS/LIS '94, Phoenix, Arizona, October 25-27 (presented by first author).

1994	Miller H.J., "Towards fuller geometric representation in facility location problems using GIS," Association of American Geographers, San Francisco,
1994	California, March 29 - April 2. 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," Western Regional Science Association, 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 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," Western Regional Science Association, 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," <i>Association of American Geographers</i> , 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

2023 "Humanistic GIS: Towards a research agenda," *American Association of Geographers*, Denver, CO, March 23-27.
2023 "Harnessing the geospatial data revolution for sustainability solutions: Data-

"Harnessing the geospatial data revolution for sustainability solutions: Dataintensive geospatial understanding for sustainability solutions," *American Association of Geographers*, Denver, CO, March 23-27.

2022	"The advantages and challenges of using big data in environmental exposure
2019	research," American Association of Geographers, February 25 – March 1 (virtual). "Strategies for using mobile big data for official statistics," American Association
2010	of Geographers, Washington DC, April 3-7.
2018	"Emerging trends in movement analytics, from observation to prediction of movement," <i>American Association of Geographers</i> , New Orleans, LA, April 10-
	14.
2018	"A globe-shaped crystal ball: The next fifty years of Geographical Analysis III,"
	American Association of Geographers, New Orleans, LA, April 10-14.
2017	"Is GIScience up to the challenges of a smart and connected world?" <i>University</i>
	Consortium for Geographic Information Science Symposium, Arlington, VA, May
	23-25 (panel organizer and moderator).
2017	"Current state of human dynamics in smart and connected communities,"
2016	American Association of Geographers, Boston, MA, April 4-9.
2016	"GI-Science and Data Science: Can they profit from each other?" GI-Forum,
2016	Salzburg, Austria, July 5. "The future of maps," AGILE International Conference on Geographic
2010	Information Science, Helsinki, Finland, June 14-17.
2016	"Symposium on human dynamics research: Theoretical perspectives on human
	dynamics research," Association of American Geographers, San Francisco, CA,
	March 29– April 2.
2016	"Symposium on human dynamics research: Prospects and challenges of human
	dynamics research," Association of American Geographers, San Francisco, CA,
2015	March 29– April 2.
2015	"Research priorities in GIScience," University Consortium for Geographic
2015	Information Science, Alexandria, VA, May 28-30. "Unlocking low carbon mobility," Association of American Geographers,
2013	Chicago, IL, April 21-25.
2015	"CyberGIS symposium: Frontiers of Big Data and urban informatics," Association
	of American Geographers, Chicago, IL, April 21-25.
2014	"Spatial data in 2030," GIScience 2014, Vienna, Austria, September 23-26
2014	"Roles of cyberGIS and geography for turning big data into rich data and
	knowledge," Association of American Geographers, Tampa, Florida, April 8-12.
2014	"Open GIS: Problems and prospects," Association of American Geographers,
	Tampa, Florida, April 8-12.
2011	"Progress and prospects of time geography and space-time analysis," Association
2010	of American Geographers, New York City, NY, February 24-28.
2010	"Social networks and information and communication technologies: Implications
	for activities in real and virtual spaces," <i>Transportation Research Board</i> , Washington, DC, January 10-14.
2007	"Honoring Atsuyuki Okabe: Applications, developments, and future research on
2007	spatial analysis and GIScience I," Association of American Geographers, San
	Francisco, CA, April 17-21.
2006	"Transport geography: Identifying emerging research trends and new directions in
	the subdiscipline," Association of American Geographers, 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," Transportation Research Board, Washington,
	DC, January 11-16.
2002	"GIS in higher education," <i>Utah Geographic Information Council</i> , Bryce Canyon, Utah, September 18-20.
2002	, I
2002	"Who am I? The changing GIS professional," Utah Geographic Information
	Council, Bryce Canyon, Utah, September 18-20.
2002	"GIS for transportation education needs," Association of American Geographers,
	Los Angeles, CA, March 19-23.
2000	"GIScience Editors' Panel," GIScience 2000, Savannah, Georgia, October 28 - 31.
2000	"Education in Geographic Information Systems for Transportation: Needs,
	Challenges and Solutions," Transportation Research Board, Washington, DC,
	January 9-13.
1998	"GIS and Spatial Analysis," University Consortium for Geographic Information
	Science (UCGIS), Park City, UT, June 24-27.
1997	"The Geography of Transportation: Review and comment," Association of
	American Geographers, Ft. Worth, Texas, April 1-5.