

CURRICULUM VITAE

Shih-Lung Shaw, Ph.D.

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I. EDUCATION

Ph.D., Geography, The Ohio State University, Columbus, Ohio, 1986. Dissertation topic: A constrained attitudinal modeling of urban travel mode-choice behavior
M.A., Geography, The Ohio State University, Columbus, Ohio, 1983
B.S., Geography, National Taiwan University, Taipei, Taiwan, 1979

II. PROFESSIONAL POSITIONS

2021-present President-Elect, University Consortium for Geographic Information Science (UCGIS, <https://www.ucgis.org/>)
2020-present Chancellor's Professor, University of Tennessee, Knoxville, Tennessee (<https://chancellor.utk.edu/professors/>)
2013-present Alvin and Sally Beaman Professor of Geography, University of Tennessee, Knoxville, Tennessee
2010-present Arts and Sciences Excellence Professor of Geography, University of Tennessee, Knoxville, Tennessee
2003-present Professor, Department of Geography, University of Tennessee, Knoxville, Tennessee
2017-present Guest Professor, Guangzhou Institute of Geography, Guangzhou, China
2011-present Affiliated Professor, Lab for Sustainable Business and Tourism, University of Tennessee, Knoxville, Tennessee
2005-present Research Fellow, Institute of Space and Earth Information Science, Chinese University of Hong Kong, Shatin, Hong Kong
2003-present Affiliated Professor, Center for Transportation Research, University of Tennessee, Knoxville, Tennessee
2017-2018 Interim Associate Provost and Director of the Center for International Education, University of Tennessee, Knoxville, Tennessee
2012-2018 Director, Confucius Institute, University of Tennessee, Knoxville, Tennessee
2007-2010 Head, Department of Geography, University of Tennessee, Knoxville, Tennessee
2013-2018 Guest Professor, Southeast University, Nanjing, China
2011-2017 Joint Professor, State Key Laboratory of Information Engineering in Surveying, Mapping and Remote Sensing (LIESMARS), Wuhan University, Wuhan, China

- 2011-2016 Affiliated Professor, Center for Intelligent Systems and Machine Learning, College of Engineering, University of Tennessee, Knoxville, Tennessee
- 2006-2011 Guest Professor, State Key Laboratory of Information Engineering in Surveying, Mapping and Remote Sensing (LIESMARS), Wuhan University, Wuhan, China
- 2010 Visiting Professor, Center for Geographic Information Science, Research Center for Humanities and Social Sciences, Academia Sinica, Taipei, Taiwan (July-August, 2010)
- 2006 Visiting Professor, State Key Laboratory of Information Engineering in Surveying, Mapping and Remote Sensing, Wuhan University, Wuhan, China (June-July, 2006)
- 2005 Visiting Professor, Department of Geography and Resource Management, Chinese University of Hong Kong, Shatin, Hong Kong (May-June, 2005)
- 2004 Visiting Professor, State Key Laboratory of Resources and Environmental Information System (LREIS), Institute of Geographical Sciences and Natural Resources Research, Chinese Academy of Sciences, Beijing, China (August-December, 2004)
- 2001-04 Associate Head, Department of Geography, University of Tennessee, Knoxville, Tennessee
- 1998-03 Associate Professor, Department of Geography, University of Tennessee, Knoxville, Tennessee
- 1994-98 Associate Professor, Department of Geography, Florida Atlantic University, Boca Raton, Florida
- 1988-94 Assistant Professor, Department of Geography, Florida Atlantic University, Boca Raton, Florida
- 1993-98 Director, Geographic Information and Analysis Laboratory, Department of Geography, Florida Atlantic University, Boca Raton, Florida
- 1990-92 Co-Director, GIS/Remote Sensing Laboratory, Department of Geography, Florida Atlantic University, Boca Raton, Florida
- 1988-90 Faculty of Master's Program of Urban and Regional Planning, Florida Atlantic University, Boca Raton, Florida
- 1988-90 Director, Geographic Information Systems Laboratory, Master's Program of Urban and Regional Planning, Florida Atlantic University, Boca Raton, Florida
- 1986-88 GIS Manager and Associate Planner, Planning Information Technology Center, Broward County Office of Planning, Ft. Lauderdale, Florida
- 1985-86 Graduate Research Assistant, National Committee for Digital Cartographic Data Standards, Dr. Harold Moellering (Chair of the National Committee), Department of Geography, The Ohio State University, Columbus, Ohio
- 1983-85 Graduate Teaching Associate, Department of Geography, The Ohio State University, Columbus, Ohio
- 1981-83 Graduate Teaching Assistant, Department of Geography, The Ohio State University, Columbus, Ohio
- 1979-81 Second Lieutenant, Air Force, Taiwan, Republic of China (compulsory service)

III. HONORS AND AWARDS

- 2021 President-Elect, University Consortium for Geographic Information Science (UCGIS) (2021 - present)
- 2020 Chancellor's Professor, University of Tennessee, Knoxville (2020 - present)
- 2019 Distinguished Scholar Award, Regional Development and Planning Specialty Group, American Association of Geographers (AAG)
- 2018 Distinguished Scholar Award, International Association of Chinese Professionals in Geographic Information Sciences (CPGIS)
- 2018 Best Land Transportation Paper Award recognizing the best propagation paper published in the *IEEE Transactions on Vehicular Technology* in the past 5 years, IEEE Vehicular Technology Society
- 2018 Faculty Development Leave Award (Sabbatical Leave), University of Tennessee, Knoxville
- 2017 Taylor & Francis and IJGIS Special Issue Award: The Most Popular Special Issue Published in *International Journal of Geographical Information Science* during 2016 – Shaw et al. (2016), Human Dynamics in the Mobile and Big Data Era
- 2017 Guest Professor, Guangzhou Institute of Geography, Guangzhou, China (2017 – present)
- 2016 James and Catherine Ralston Family Fund Award, College of Arts and Sciences, University of Tennessee, Knoxville (2016 - present)
- 2014 Convocation Research Award (Senior Career Level), College of Arts and Sciences, University of Tennessee, Knoxville
- 2014 Faculty Fellow, Center for Transportation Research, University of Tennessee, Knoxville
- 2013 Alvin and Sally Beaman Professorship, University of Tennessee, Knoxville (2013 - present)
- 2013 Guest Professor, Southeast University, Nanjing, China (2013 – 2018)
- 2012 Outstanding Teaching Award, Department of Geography, University of Tennessee, Knoxville
- 2011 Betty Lynn Hendrickson Professorship, College of Arts and Sciences, University of Tennessee, Knoxville (2011 - 2013)
- 2011 Faculty Development Leave Award (Sabbatical Leave), University of Tennessee, Knoxville
- 2011 Joint Faculty of the State Key Laboratory of Information Engineering in Surveying, Mapping and Remote Sensing, Wuhan University, Wuhan, China (2011 – 2017)
- 2011 Affiliated Faculty of the Center for Intelligent Systems and Machine Learning (CISML), College of Engineering, University of Tennessee, Knoxville (2011 – 2016)
- 2011 Affiliated Faculty of the Center for Sustainable Business and Tourism, Institute for a Secure and Sustainable Environment, University of Tennessee, Knoxville (2011 – present)
- 2010 Featured in the Chancellor's Report - Journey to the Top 25, University of Tennessee, Knoxville
- 2010 Academic Advisory Council, Research Center for Humanities and Social Sciences, Academia Sinica, Taipei, Taiwan (2010 – 2019)
- 2010 Arts and Sciences Excellence Professorship, College of Arts and Sciences, University of Tennessee, Knoxville (2010 - present)

- 2009 Betty Lynn Hendrickson Professorship, College of Arts and Sciences, University of Tennessee, Knoxville (2009 - 2011)
- 2009 Chancellor's Research and Creative Achievement Award, University of Tennessee, Knoxville
- 2008 Elected to Fellow of the American Association for Advancement of Science (AAAS) (2008 – present)
- 2008 Edward L. Ullman Award for outstanding contributions to the field of transportation geography, Transportation Geography Specialty Group, Association of American Geographers (AAG)
- 2006 Guest Professor of Wuhan University, Wuhan, China (2006-2011)
- 2005 Research Fellow of Chinese University of Hong Kong, Hong Kong, China (2005 – present)
- 2004 Outstanding Faculty Award, Department of Geography, University of Tennessee, Knoxville
- 2004 Featured among eight faculty members in the Provost's publication of "Taking on Tomorrow," which highlights research and education at University of Tennessee, Knoxville
- 1998 Recognition of Contribution, Florida Department of Transportation
- 1998 Certificate of Appreciation, College of Science, Florida Atlantic University
- 1996 Medal of Outstanding Overseas Chinese, Federation of Overseas Chinese Associations, Taipei, Taiwan
- 1995 Finalist, Distinguished Teacher Award, College of Social Science, Florida Atlantic University
- 1993 Excellence in Undergraduate Teaching Award, Florida Atlantic University
- 1986 Huntington Award, Outstanding Graduate Student, Department of Geography, The Ohio State University

IV. RESEARCH

A. Publications

- 2021. Shaw, S-L. GIScience of Human Dynamics, in B. Warf (ed.), *Oxford Bibliographies in Geography*, New York: Oxford University Press, in press.
- 2021. Shaw, S-L. and Sui, D. (Eds.) *Mapping COVID-19 in Space and Time: Understanding the Spatial and Temporal Dynamics of a Global Pandemic*, Cham, Switzerland: Springer International Publishing AG, 358 pages.
- 2021. Shaw, S-L. and Sui, D. Understanding the spatial and temporal dynamics of a global pandemic, in S-L. Shaw and D. Sui (eds.) *Mapping COVID-19 in Space and Time: Understanding the Spatial and Temporal Dynamics of a Global Pandemic*, Cham, Switzerland: Springer International Publishing AG, 1-9.
- 2021. Sui, D. and Shaw, S-L. Outlook and next steps: understanding human dynamics in a post-pandemic world - beyond mapping COVID-19 in space and time, in S-L Shaw and D. Sui (eds.) *Mapping COVID-19 in Space and Time: Understanding the Spatial and Temporal Dynamics of a Global Pandemic*, Cham, Switzerland: Springer International Publishing AG, 347-358.

2021. Fang, Z., Shaw, S-L., Yang, B., Santi, P. and Tu, W. Integrated environmental and human observations for smart cities, *Environment and Planning B: Urban Analytics and City Science*, 48(6), 1375-1379 (DOI: 10.1177/23998083211023296).
2021. Shaw, S-L. and Sui, D. Understanding the new human dynamics in smart spaces and places: Towards a splatial framework, in Bian, L. (ed.) *Smart Spaces and Places*, New York: Routledge, 7-16 (Reprint of Shaw, S-L. and Sui, D. 2020. Understanding the new human dynamics in smart spaces and places: Towards a splatial framework, *Annals of the American Association of Geographers*, 110(2), 339-348.)
2021. Shaw, S-L. Urban human dynamics, in Shi, W., Goodchild, M., Batty, M. Kwan, M-P., and Zhang, A. (eds.) *Urban Informatics*, Cham, Switzerland: Springer International Publishing AG, 41-57 (DOI: 10.1007/978-981-15-8983-6).
2021. Xu, Y., Li, X., Shaw, S-L., Lu, F., Yin, L. and Chen, B. Effects of data preprocessing methods on addressing location uncertainty in mobile signaling data, *Annals of the American Association of Geographers*, 111(2), 515-539 (DOI: 10.1080/24694452.2020.1773232).
2020. Feng, M., Shaw, S-L., Fang, Z. and Peng, G. Time efficiency assessment of ship movements in maritime ports: A case study of two ports based on AIS data, *Journal of Transport Geography*, 86, 102741 (DOI: 10.1016/j.jtrangeo.2020.102741).
2020. Chen, J., Pei, T., Li, M., Song, C., Ma., T., Lu, F., and Shaw, S-L. An enhanced model for evacuation vulnerability assessment in urban areas, *Computers, Environment and Urban Systems*, 84, 101540 (DOI: 10.1016/j.compenvurbsys.2020.101540).
2020. Giordano, A., Shaw, S-L. and Sinton, D. Guest Editors' Introduction: The Geospatial Humanities: Transdisciplinary Opportunities, *International Journal of Humanities and Arts Computing*, 14(1-2), 1-5 (DOI: 10.3366/ijhac.2020.0241).
2020. Yin, L., Lin, N., Song, X., Mei, S., Shaw, S-L., Fang, Z., Li, Q., Li, Y., and Mao, L. Space-time personalized short message service (SMS) for infectious disease control - Policies for precise public health, *Applied Geography*, 114, 102103, (DOI: 10.1016/j.apgeog.2019.102103).
2020. Shaw, S-L. and Sui, D. Understanding the new human dynamics in smart spaces and places: Towards a splatial framework, *Annals of the American Association of Geographers*, 110(2), 339-348 (DOI: 10.1080/24694452.2019.1631145).
2019. Feng, M., Shaw, S-L., Fang, Z. and Cheng, H. Relative space-based GIS data model to analyze the group dynamics of moving objects, *ISPRS Journal of Photogrammetry and Remote Sensing*, 153, 74-95 (DOI: <https://doi.org/10.1016/j.isprsjprs.2019.05.002>).
2019. Zhao, Z., Shaw, S-L., Yin, L., Fang, Z., Yang, X., Zhang, F. and Wu, S. The effect of temporal sampling intervals on typical human mobility indicators obtained from mobile phone location data, *International Journal of Geographical Information Science*, 33(7), 1471-1495 (DOI: 10.1080/13658816.2019.1584805).
2019. Shaw, S-L. and Ye, X. Capturing spatiotemporal dynamics in computational modeling, in J.P. Wilson (ed.), *University Consortium for Geographic Information Science (UCGIS) GIS&T Body of Knowledge* (Open access: <https://gistbok.ucgis.org/bok-topics/capturing-spatiotemporal-dynamics-computational-modeling>) (DOI: 10.22224/gistbok/2019.1.6).
2019. Jiang, J., Li, Q., Tu, W., Shaw, S-L. and Yue, Y. A simple and direct method to analyse the influences of sampling fractions on modelling intra-city human mobility,

- International Journal of Geographical Information Science*, 33(3), 618-644 (DOI: 10.1080/13658816.2018.1552964).
2019. Fang, Z., Yu, H., Ke, R., Shaw, S-L. and Peng, G. Automatic identification system-based approach for assessing the near miss collision risk dynamics of ships in ports, *IEEE Transactions on Intelligent Transportation Systems*, 20(2), 534-543 (DOI: 10.1109/TITS.2018.2816122).
2018. Fang, Z., Jiang, Y., Xu, H., Shaw, S-L., Li, L. and Geng, X. An invisible salient landmark approach to locating pedestrians for last mile pedestrian navigation applications, *Sensors*, 18(9):3164, 26 pages (DOI: 10.3390/s18093164).
2018. Sui, D. and Shaw, S-L. Human dynamics in smart and connected communities: an introduction, *Computers, Environment and Urban Systems*, 72, 1-3 (DOI: 10.1016/j.compenvurbsys.2018.08.003).
2018. Ma, T., Lu, R., Zhao, N. and Shaw, S-L. An estimate of rural exodus in China using location-aware data. *PLoS ONE*, 13(7): e0201458 (DOI: 10.1371/journal.pone.0201458).
2018. Chen, J., Pei, T., Shaw, S-L., Feng, L., Li, M., Cheng, S., Liu, X. and Chang, H. Fine-grained prediction of urban populations using mobile phone location data, *International Journal of Geographical Information Science*, 32(9), 1770-1786 (DOI: 10.1080/13658816.2018.1460753).
2018. Shaw, S-L. and Sui, D. GIScience for human dynamics research in a changing world, *Transactions in GIS*, 22(4), 891–899 (DOI: 10.1111/tgis.12474).
2018. Zhao, Z., Yin, L., Shaw, S-L., Fang, Z., Yang, X. and Zhang, F. Identifying stops from mobile phone location data by introducing uncertain segments, *Transactions in GIS*, 22, 958-974 (DOI: 10.1111/tgis.12332).
2018. Zhu, J., Xu, Y., Fang, Z., Shaw, S-L. and Liu, X. Geographic prevalence and mix of regional cuisines in Chinese cities, *ISPRS International Journal of Geo-Information*, 7(5), 183-205 (DOI: 10.3390/ijgi7050183).
2018. Shaw, S-L. and Sui, D. (Eds.) *Human Dynamics Research in Smart and Connected Communities*, Cham, Switzerland: Springer International Publishing AG, 245 pages (DOI: 10.1007/978-3-319-73247-3).
2018. Shaw, S-L. and Sui, D. Introduction: Human dynamics in perspective, in Shaw, S-L. and Sui, D. (eds.) *Human Dynamics Research in Smart and Connected Communities*, Cham, Switzerland: Springer International Publishing AG, pp. 1-11 (DOI: 10.1007/978-3-319-73247-3_1).
2018. Xu, Y., Shaw, S-L., Lu, F., Chen, J., and Li, Q. Uncovering the relationships between phone communication activities and spatiotemporal distribution of mobile phone users, in Shaw, S-L. and Sui, D. (eds.) *Human Dynamics Research in Smart and Connected Communities*, Cham, Switzerland: Springer International Publishing AG, pp. 41-65 (DOI: 10.1007/978-3-319-73247-3_3).
2018. Sui, D. and Shaw, S-L. Outlook and next steps: From human dynamics to smart and connected communities, in Shaw, S-L. and Sui, D. (eds.) *Human Dynamics Research in Smart and Connected Communities*, Cham, Switzerland: Springer International Publishing AG, pp. 235-245 (DOI: 10.1007/978-3-319-73247-3_13).
2018. Yuan, H., Chen, B.Y., Li, Q., Shaw, S-L. and Lam, W.H.K. Towards space-time buffering for spatiotemporal proximity analysis of movement data, *International*

- Journal of Geographical Information Science*, 32(6), 1211-1246 (DOI: 10.1080/13658816.2018.1432862).
2018. Chen, B.Y., Wang, Y., Wang, D., Li, Q., Lam, W.H.K. and Shaw, S-L. Understanding the impacts of human mobility on accessibility using massive mobile phone tracking data, *Annals of the American Association of Geographers*, 108(4), 1115-1133 (DOI: 10.1080/24694452.2017.1411244).
2017. Shaw, S-L., Fang, Z., Chen, B., Yin, L., Chen, J. and Yang, X. *Space-Time GIS Analytics of Human Dynamics in Urban Areas*, Beijing, China: Science Press, 294 pages (in Chinese).
2017. Hu, Y., Ye, X. and Shaw, S-L. Extracting and analyzing semantic relatedness between cities using news articles, *International Journal of Geographical Information Science*, 31(12), 2427-2451 (DOI: 10.1080/13658816.2017.1367797).
2017. Tu, W., Cao, J., Yue, Y., Shaw, S-L., Zhou, M., Wang, Z., Chang, X., Xu, Y. and Li, Q. Coupling mobile phone and social media data: a new approach to understanding urban functions and diurnal patterns, *International Journal of Geographical Information Science*, 31(12), 2331-2358 (DOI: 10.1080/13658816.2017.1356464).
2017. Fang, Z., Yang, X., Xu, Y., Shaw, S-L. and Yin, L. Spatiotemporal model for assessing the stability of urban human convergence and divergence patterns, *International Journal of Geographical Information Science*, 31(11), 2119-2141 (DOI: 10.1080/13658816.2017.1346256).
2017. Lu, S., Shaw, S-L., Fang, Z., Zhang, X. and Yin, L. Exploring the effects of sampling locations for calibrating the Huff model using mobile phone location data, *Sustainability*, 9, 159-176 (DOI: 10.3390/su9010159).
2017. Lu, S., Fang, Z., Zhang, X., Shaw, S-L., Yin, L., Zhao, Z. and Yang, X. Understanding the representativeness of mobile phone location data in characterizing human mobility indicators, *ISPRS International Journal of Geo-Information*, 6(1), 7-25 (DOI: 10.3390/ijgi6010007).
2017. Yang, X., Fang, Z., Zhao, Z., Shaw, S-L., and Yin, L. Analyzing space-time variation of urban human stay using kernel density estimation by considering spatial distribution of mobile phone towers, *Geomatics and Information Science of Wuhan University*, 42(1), 49-55 (in Chinese with English abstract, DOI: 10.13203/j.whugis20150646).
2017. Fang, Z., Liu, L., Shaw, S-L. and Yin, L. An extended community detection algorithm to compare human mobility flow based on urban polycentric cluster boundaries: a case study of Shenzhen City, in Zhou, C. et al. (eds.), *Spatial Data Handling in Big Data Era*, pp. 111–124, Springer Nature Singapore Pte Ltd (DOI: 10.1007/978-981-10-4424-3_8).
2017. Chen, B.Y., Yuan, H., Li, Q., Wang, D., Shaw, S-L., Chen, H.P. and Lam, W.H.K. Measuring place-based accessibility under travel time uncertainty, *International Journal of Geographical Information Science*, 31(4), 783-804 (DOI: 10.1080/13658816.2016.1238919).
2016. Yang, X., Fang, Z., Xu, Y., Shaw, S-L., Zhao, Z., Yin, L., Zhang, T. and Lin, Y. Understanding spatiotemporal patterns of human convergence and divergence using mobile phone location data, *ISPRS International Journal of Geo-Information*, 5(10), 177-194 (DOI: 10.3390/ijgi5100177).
2016. Chen, J. and Shaw, S-L. Representing the spatial extent of places based on Flickr photos with a representativeness-weighted kernel density estimation, in Jennifer Miller,

- David O’Sullivan, and Nancy Wiegand (eds.), *Lecture Notes in Computer Science (LNCS) 9927: GIScience 2016*, pp. 130–144, Springer International Publishing Switzerland (DOI: 10.1007/978-3-319-45738-3_9).
2016. Xu, Y., Shaw, S-L., Fang, Z. and Yin, L. Estimating potential demand of bicycle trips from mobile phone data - an anchor-point based approach, *ISPRS International Journal of Geo-Information*, 5(8), 131-153 (DOI: 10.3390/ijgi5080131).
2016. Shaw, S-L., Tsou, M-H. and Ye, X. Editorial: human dynamics in the mobile and big data era, *International Journal of Geographical Information Science*, 30(9), 1687-1693 (DOI:10.1080/13658816.2016.1164317).
2016. Zhao, Z., Shaw, S-L., Xu, Y., Lu, F., Chen, J. and Yin, L. Understanding the bias of call detail records in human mobility research, *International Journal of Geographical Information Science*, 30(9), 1738-1762 (DOI:10.1080/13658816.2015.1137298).
2016. Xu, Y., Shaw, S-L., Zhao, Z., Yin, L., Lu, F., Chen, J., Fang, Z. and Li, Q. Another tale of two cities - understanding human activity space using actively tracked cellphone location data, *Annals of the Association of American Geographers*, 106(2), 489-502 (DOI:10.1080/00045608.2015.1120147).
2016. Tu, W., Li, Q., Fang, Z., Shaw, S-L., Zhou, B. and Chang, X. Optimizing the locations of electric taxi charging stations: A spatial–temporal demand coverage approach, *Transportation Research Part C: Emerging Technologies*, 65, 172-189 (DOI:10.1016/j.trc.2015.10.004).
2016. Chen, B.Y., Yuan, H., Li, Q., Shaw, S-L., Lam, W.H.K. and Chen, X. Spatiotemporal data model for network time geographic analysis in the era of big data, *International Journal of Geographical Information Science*, 30(6), 1041-1071 (DOI:10.1080/13658816.2015.1104317).
2016. Tang, L., Yang, X., Kan, Z., Wang, X, Li, Q. and Shaw, S-L. Traffic lane numbers detection based on naïve Bayesian classification, *China Journal of Highway and Transport*, 29(3), 116-123 (in Chinese with English abstract).
2016. Tang, L., Kan, Z., Huang, F., Li, Q., Shaw, S-L. and Dong, K. Travel time detection at intersections from taxi trace data, *Geomatics and Information Science of Wuhan University*, 41(1), 136-142 (in Chinese with English abstract, DOI:10.13203/j.whugis20130822).
2016. Shaw, S-L. Taipei MRT (Taiwan), in Selima Sultana and Joe Weber (eds.), *Minicars, Maglevs, and Mopeds: Modern Modes of Transportation around the World*. Santa Barbara, CA: ABC-CLIO, 301-302.
2016. Shaw, S-L. Geographic information systems for transportation, in D. Richardson (ed.), *The International Encyclopedia of Geography: People, the Earth, Environment, and Technology*. Hoboken, NJ: Wiley (DOI: 10.1002/9781118786352.wbieg0617).
2015. Fang, Z., Li, Q. and Shaw, S-L. What about people in pedestrian navigation? *Geo-spatial Information Science*, 18(4), 135-150 (DOI:10.1080/10095020.2015.1126071).
2015. Yin, L., Wang, Q., Shaw, S-L., Fang, Z., Hu, J., Tao, Y. and Wang, W. Re-identification risk versus data utility for aggregated mobility research using mobile phone location data, *PLOS ONE*, 10(10): e0140589 (DOI:10.1371/journal.pone.0140589).
2015. Chen, J., Lu, F., Zhai, H. and Shaw, S-L. Making place recommendations: An individual accessibility measure to urban opportunities in space and time, *Acta*

- Geographica Sinica*, 70(6), 931-940 (in Chinese with English abstract, DOI: 10.11821/dlxb201506007).
2015. Xu, Y., Shaw, S-L., Zhao, Z., Yin, L., Fang, Z. and Li, Q. Understanding aggregate human mobility patterns using passive mobile phone location data – a home-based approach, *Transportation*, 42(4), 625-646 (DOI:10.1007/s11116-015-9597-y).
2015. Chan, T-C., Pai, P-L., Shaw, S-L. and Fan, I-C. Spatiotemporal evolution of market towns in the Jiangnan area during the Ming-Qing dynasties of China, *Historical Methods: A Journal of Quantitative and Interdisciplinary History*, 48(2), 90-102 (DOI: 10.1080/01615440.2014.995783).
2015. Miller, H. and Shaw, S-L. Geographic information systems for transportation in the 21st century, *Geography Compass*, 9(4), 180-189 (DOI: 10.1111/gec3.12204).
2015. Yin, L. and Shaw, S-L. Exploring space-time paths in physical and social closeness spaces: a space-time GIS approach, *International Journal of Geographical Information Science*, 29(5), 742-761 (DOI: 10.1080/13658816.2014.978869).
2015. Fang, Z., Shaw, S-L., Tu, W. and Li, Q. Spatiotemporal critical opportunity and link identification for joint participation scheduling, in M-P. Kwan, D. Richardson, D. Wang and C. Zhou (eds.), *Space-Time Integration in Geography and GIScience*. New York, NY: Springer, 109-126.
2015. Zhao, Z., Shaw, S-L. and Wang, D. A space-time raster GIS data model for spatiotemporal analysis of vegetation responses to a freeze event, *Transactions in GIS*, 19(1), 151-168 (DOI: 10.1111/tgis.12088).
2014. Lindley, L.C. and Shaw, S-L. Who are the children enrolled in hospice care? *Journal for Specialists in Pediatric Nursing*, 19(4), 308-315 (DOI: 10.1111/jspn.12085).
2014. Shaw, S-L. Geographic information systems in transportation, in M. Garrett (ed.), *Encyclopedia of Transportation: Social Science and Policy*. Thousand Oaks, CA: SAGE Publications, 618-621 (DOI: 10.4135/9781483346526).
2014. Pei, T., Sobolevsky, S., Ratti, C., Shaw, S-L., Li, T. and Zhou, C. A new insight into land use classification based on aggregated mobile phone data, *International Journal of Geographical Information Science*, 28(9), 1988-2007 (DOI: 10.1080/13658816.2014.913794).
2014. Shaw, S-L., Fang, Z., Lu, S. and Tao, R. Impacts of the high speed rail on railroad network accessibility in China, *Journal of Transport Geography*, 40, 112-122 (DOI: 10.1016/j.jtrangeo.2014.03.010).
2014. Zhang, X., Li, Q., Fang, Z., Lu, S. and Shaw, S-L. An assessment method for landmark recognition time in real scenes, *Journal of Environmental Psychology*, 40, 206-217 (DOI: 10.1016/j.jenvp.2014.06.008).
2014. Xiao, J., Li, W., Liu, G., Shaw, S-L. and Zhang, Y. Hierarchical tone mapping based on image colour appearance model, *IET Computer Vision*, 8(4), 358-364.
2014. Shaw, S-L. and Fang, Z. Rethinking human behavior research from the perspective of space-time GIS, *Geomatics and Information Science of Wuhan University*, 39(6), 667-670 (DOI: 10.13203/j.whugis20140127, in Chinese with English abstract).
2014. Chang, X., Yue, Y., Li, Q., Chen, B., Shaw, S-L. and Tu, W. Extracting the geographic backbone of location-based social network, *Geomatics and Information Science of Wuhan University*, 39(6), 706-710 (DOI: 10.13203/j.whugis20140105, in Chinese with English abstract).

2014. Tu, W., Fang, Z., Li, Q., Shaw, S-L. and Chen, B. A bi-level Voronoi diagram-based metaheuristic for a large-scale multi-depot vehicle routing problem, *Transportation Research Part E: Logistics and Transportation Review*, 61, 84-97 (DOI: 10.1016/j.tre.2013.11.003).
2014. Li, Q., Chen, L., Li, M., Shaw, S-L., and Nuchter, A. A sensor-fusion drivable-region and lane detection system for autonomous vehicle navigation in challenging road scenarios, *IEEE Transactions on Vehicular Technology*, 63(2), 540-555 (DOI: 10.1109/TVT.2013.2281199).
2014. Lu, S., Fang, Z., Shaw, S-L., and Zhang, X. Impacts of high-speed rails on the accessibility inequality of railway network in China. In S. Hu, & X. Ye (Eds.), 2014 22nd International Conference on Geoinformatics (pp. 5 pages). Taiwan Geographic Information Systems Center, Kaohsiung, Taiwan (DOI: 10.1109/GEOINFORMATICS.2014.6950805).
2013. Shaw, S-L. Book review: Daily spatial mobilities: physical and virtual, *Journal of Transport Geography*, 31, 309-310.
2013. Chen, B.Y., Yuan, H., Li, Q., Lam, W.H.K., Shaw, S-L. and Yan, K. Map-matching algorithm for large-scale low-frequency floating car data, *International Journal of Geographical Information Science*, 28(1), 22-38.
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2013. Fang, Z., Li, Q., Li, Q., Han, L. and Shaw, S-L. A space-time efficiency model for optimizing intra-intersection vehicle-pedestrian evacuation movements, *Transportation Research Part C: Emerging Technologies*, 31, 112-130.
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2012. Li, Q., Shaw, S-L., Fang, Z. and Yang, B. (eds.) *Technology and Research Frontiers of Geographic Information Systems for Transportation*. Beijing, China: Science Press (in Chinese, 319 pages).
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2010. Fang, Z., Li, Q. and Shaw, S-L. Representation of location-specific space-time accessibility based on time geography framework, *Geomatics and Information Science of Wuhan University*, 35(9), 1091-1095 (in Chinese with English abstract).
2010. Chai, Y., Kwan, M-P. and Shaw, S-L. Guest Editorial - Time geography and urban planning: an introduction, *Urban Planning International*, 6, 1-2 (in Chinese).
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1989. Shaw, S-L. The tri-county commuter rail system in Southeast Florida: a ridership survey and its planning implications, *The Florida Geographer*, 23, 46-64.
1989. Shaw, S-L. Design considerations for a GIS-based transportation network analysis system, *GIS/LIS'89 Proceedings*, Vol. 1, 20-29.
1989. Shaw, S-L. GIS as decision support tools in transportation analysis, *Proceedings of the Ninth Annual ESRI User Conference*, 10 pages (no page numbers).
1988. Shaw, S-L. Modeling of network problems: a discussion of the Arc/Info Network subsystem, *Proceedings of the Eighth Annual ESRI User Conference*, 9 pages (no page numbers).

B. Grants/Contracts

2020. "Human Dynamics of Scientific Knowledge," Shellen Wu (History, PI) and Shih-Lung Shaw (Geography, Co-PI), funded by the Research Seed Program of the Office of the Research and Engagement, University of Tennessee, \$29,450.
2020. "Rethinking Space and the Uses of GI Science in Digital Humanities Research Seminar," Shellen Wu (History, PI) and Shih-Lung Shaw (Geography, Co-PI), funded by the Humanities Center, University of Tennessee, \$2,500.

2019. "Rethinking Space and the Uses of Geographical Information Science in Digital Humanities," Shellen Wu (History, PI) and Shih-Lung Shaw (Geography, Co-PI), funded by the Humanities Center of the University of Tennessee, \$5,000.
2017. "Transportation Research Support – U.S. DOT, Phase IV," Shih-Lung Shaw (PI), funded by UT-Battelle-Oak Ridge National Laboratory (ORNL) (4000157162), \$13,448.
2017. "Guangdong Innovative and Entrepreneurial Research Team," Shih-Lung Shaw (team member), in collaboration with the Guangzhou Institute of Geography, funded by the Provincial Government of Guangdong, China, RMB 30,000,000.
2017. "Transportation Research Support – New York State DOT, Phase III," Shih-Lung Shaw (PI), funded by UT-Battelle-Oak Ridge National Laboratory (ORNL) (4000157187), \$2,174.
2017. "Additional Transportation Research Support – U.S. DOT," Shih-Lung Shaw (PI), funded by UT-Battelle-Oak Ridge National Laboratory (ORNL) (4000154660), \$2,676.
2017. "Transportation Research Support – U.S. DOT, Phase III," Shih-Lung Shaw (PI), funded by UT-Battelle-Oak Ridge National Laboratory (ORNL) (3400250597/4000153367), \$11,736.
2017. "Transportation Research Support – U.S. DOT, Phase III," Shih-Lung Shaw (PI), funded by UT-Battelle-Oak Ridge National Laboratory (ORNL) (3400247626), \$8,907.
2017. "Transportation Research Support – New York State DOT, Phase II," Shih-Lung Shaw (PI), funded by UT-Battelle-Oak Ridge National Laboratory (ORNL) (3400247522/4000152314), \$10,890.
2017. "Transportation Research Support – New York State DOT, Phase II," Shih-Lung Shaw (PI), funded by UT-Battelle-Oak Ridge National Laboratory (ORNL) (3400244485), \$7,903.
2016. "Transportation Research Support – New York State DOT," Shih-Lung Shaw (PI), funded by UT-Battelle-Oak Ridge National Laboratory (ORNL) (3400236602), \$9,816.
2016. "Transportation Research Support – U.S. DOT, Phase II," Shih-Lung Shaw (PI), funded by UT-Battelle-Oak Ridge National Laboratory (ORNL) (3400233641/4000143393), \$5,291.
2016. "Transportation Research Support – U.S. DOT, Phase II," Shih-Lung Shaw (PI), funded by UT-Battelle-Oak Ridge National Laboratory (ORNL) (3400233641/4000143393), \$10,725.
2016. "Transportation Research Support – U.S. DOT, Phase II," Shih-Lung Shaw (PI), funded by UT-Battelle-Oak Ridge National Laboratory (ORNL) (3400226740), \$17,238.
2015. "Ecosystem Functional Testing Platform for Community Land Model – Phase III," Shih-Lung Shaw (PI), funded by UT-Battelle-Oak Ridge National Laboratory (ORNL) (3400210532), \$41,844.
2015. "Transportation Research Support – U.S. DOT," Shih-Lung Shaw (PI), funded by UT-Battelle-Oak Ridge National Laboratory (ORNL) (4000135357/3400218166), \$25,946.
2015. "Transportation Research Support – U.S. DOT," Shih-Lung Shaw (PI), funded by UT-Battelle-Oak Ridge National Laboratory (ORNL) (3400210522), \$16,760.
2014. "Ecosystem Functional Testing Platform for Community Land Model – Phase II," Shih-Lung Shaw (PI), funded by UT-Battelle-Oak Ridge National Laboratory (ORNL) (4000132674), \$11,704.

- 2014-15. “Institute for Sustainable Mobility,” David Greene and Asad Khattak (Co-Directors) and a team of fellows (Shih-Lung Shaw is a fellow on the project team), funded by the Organized Research Units Program, Office of Research and Engagement, University of Tennessee, Knoxville, \$59,850.
- 2013-14. “Upgrade the Geographic Information System (GIS),” Shih-Lung Shaw (PI), Airton Kohls and Hyun Kim, funded by the U.S. Department of Transportation, Federal Highway Administration (DTFH61-13-Q-00050), \$360,950.
- 2013-14. “Ecosystem Functional Testing Platform for Community Land Model,” Shih-Lung Shaw (PI), funded by UT-Battelle-Oak Ridge National Laboratory (ORNL) (3400194818), \$18,560.
- 2013-16. “An Examination of Hospice Use among Children,” Lisa Lindley (PI), Shih-Lung Shaw (Co-Mentor), et al., funded by National Institutes of Health (NIH) – National Institute of Nursing Research (NINR) (NIH/NINR 1 K01NR014490-01), \$278,733.
- 2013-17. “Using Mobile Phone Data to Analyze Interactions between Group Activities and Urban Spatial Structures for Optimization of Facility Locations,” Shih-Lung Shaw (PI) in collaboration with Wuhan University, Chinese Academy of Sciences, and China Mobile, funded by the Key Grants Program of the National Natural Science Foundation of China (41231171/D0107), RMB 3,000,000 (approx. US\$480,000).
- 2012-14. “Key Technological Development of Automated Guidance Systems for Driverless Vehicles in Complex Urban Environments,” Shih-Lung Shaw (PI) in collaboration with Wuhan University, funded by the National Natural Science Foundation of China (91120002/F030602), RMB 1,200,000 (approx. US\$192,000).
- 2011-14. “Collaborative Research on Space-Time Analysis and Modeling,” Shih-Lung Shaw (PI), funded by the Chinese Ministry of Science and Technology and Wuhan University, RMB 3,000,000 (approx. US\$480,000).
2011. “Integration of Space-Time GIS with Climate Informatics for Climate Change Research,” Shih-Lung Shaw (PI), funded by the Joint Directed Research and Development (JDRD) Program, University of Tennessee and Oak Ridge National Laboratory (UT-ORNL) Science Alliance, \$39,965.
- 2010-12. “A Space-Time Routing Algorithm for Emergency Evacuation of Moving Objects,” Zhixiang Fang (PI) and Shih-Lung Shaw, funded by the National Natural Science Foundation of China (40971233/D010703), RMB 350,000 (approx. US\$56,000).
- 2009-11. “Tennessee One Road: Integration of Road Attributes on A Common Geometry,” Shih-Lung Shaw (PI) and Jerry Everett, funded by the Tennessee Department of Transportation, \$90,000.
2009. “Road Network Traffic Pattern and Accessibility Analysis Based on Taxi Tracking Data,” Yang Yue (PI), Shih-Lung Shaw, and Qingquan Li, funded by the Microsoft Research Institute (Asia), \$15,000.
- 2008-13. “CIMBS Full Proposal: The University of Tennessee – Advancing Connections between Biology and Mathematics,” Louis Gross (PI) and a research project team (Shih-Lung Shaw is a research collaborator on the project team), funded by the U.S. National Science Foundation’s EF-Bio Centers Program (EF-0832858), \$15,907,538 (<http://www.nimbios.org/about/mission.html>).
- 2006-09. “Towards a GIS-Based Analytical Time-Geographic Framework for Physical and Virtual Activities,” Shih-Lung Shaw (PI) and Hongbo Yu, funded by the U.S. National

- Science Foundation's Geography and Regional Science Program (BCS-0616724), \$212,045 (<http://web.utk.edu/~sshaw/NSF-Project-Website/default.htm>).
- 2004-08. "Grid Computing for Ecological Modeling and Spatial Control," Louis Gross (PI), Michael Berry, Suzanne Lenhart, and Shih-Lung Shaw, funded by the U.S. National Science Foundation's ITR Program (IIS-0427471), \$1,416,610 (<http://www.tiem.utk.edu/ITR06/>).
2007. "Geographic Information Systems for Transportation: Principles and Applications," Shih-Lung Shaw (PI), funded by the UT Scholarly Activity and Research Incentive Funds (SARIF) travel grant and the Research Incentive Funds of UTK College of Arts and Sciences to deliver a keynote presentation at the First GIS for Transportation Symposium of China, \$2,000.
- 2005-06. "Environmental Justice Planning Tool," Mary English (PI), Shih-Lung Shaw, Frederick Wegmann, and Jerry Everett, funded by the Tennessee Department of Transportation, \$141,582.
- 2005-06. "A Space-Time GIS for Analyzing Population Migration Histories," Shih-Lung Shaw (PI), funded by the UT Professional Development Awards, \$3,350.
2006. "Comprehensive Geographical Information System Solution, Phase I: Determining Processes and Requirements for KGIS," Shih-Lung Shaw (PI) and Bruce Ralston, funded by the CH2M Hill to work on the City of Knoxville, Knox County, and KUB Geographic Information System (KGIS) migration project, \$14,926.
2005. "GIS for Transportation Workshop," Hui Lin (PI) and Shih-Lung Shaw, funded by the Hong Kong Transport Department, HK\$29,900.
2004. "Human Activities in Physical and Virtual Space: A Spatio-temporal Analysis," Shih-Lung Shaw (PI), funded by the UT Scholarly Activity and Research Incentive Funds (SARIF), \$3,000.
- 2003-04. "An Evaluation of the Automated GPS/Roadway Inventory Data Collection and TRIMS Update Process," Shih-Lung Shaw (PI) and Jerry Everett, funded by the Tennessee Department of Transportation, \$273,551.
2002. "Teleworking, Urban Travel Patterns, and Changing Urban Forms: A Pilot Study of the Atlanta Metropolitan Area," Shih-Lung Shaw (PI), funded by the UT Scholarly Activity and Research Incentive Funds (SARIF), \$3,000.
- 2001-03. "Initiative in Computational Ecology," Louis Gross (PI) and other research team members, funded by the UT President's Research Initiatives, \$300,000.
- 2000-03. "Identification of Equilibrium of Land Use and Transportation Investments Using Spatiotemporal Analysis Tools," Fang Zhao (PI) and Shih-Lung Shaw, funded by the Florida Department of Transportation, \$175,000.
- 2000-01. "Investigation of Laser Swath Mapping," Shih-Lung Shaw (PI) and Jerry Everett, funded by the Tennessee Department of Transportation, \$82,500.
2001. "Development of Geographic Shopping Cart for MPC's in-Link Agenda Notification System," Shih-Lung Shaw (PI), funded by the Knoxville/Knox County Metropolitan Planning Commission, \$1,874.
2001. "GIS Workshop," Bruce Ralston (PI) and Shih-Lung Shaw, funded by the Municipal Technical Advisory Service, University of Tennessee, \$1,750.

2000. "Evaluation of Software Platforms for Geographic Information Systems," Robert Russell (PI), Shih-Lung Shaw, and Michael Schultze, funded by the Tennessee Department of Transportation, \$30,484.
2000. "Teaching Enhancement Equipment Grant," Shih-Lung Shaw (PI), funded by the UT National Alumni Association/CUE/ITC Grant, \$493.
1999. "A Conceptual Framework for Activity-based Travel Demand Modeling using Geographic Information Systems," Shih-Lung Shaw (PI), funded by the UT Faculty Research Development Award, \$2,000.
1998. "GIS Student Assistantship Program," Shih-Lung Shaw (PI), funded by the Broward County Government, Florida, \$9,600.
1997. "Transportation and Land Use Connection," Marie York (PI) and Shih-Lung Shaw, funded by the Florida Department of Transportation, \$79,913.
1996. "GIS and Location-Allocation Analysis Training Course," Shih-Lung Shaw (PI), funded by the South Florida Water Management District, \$1,500.
1996. "Canal Network GIS Database Development," Shih-Lung Shaw (PI), funded by the South Florida Water Management District, \$20,000.
1996. "Introduction to GIS Workshop," Shih-Lung Shaw (PI), funded by the Palm Beach County Government, Florida, \$3,200.
1996. "Introduction to ArcView Workshop," funded through the Florida Atlantic University Continuing Education and Open University, \$12,000.
1995. "Natural Vegetation Database: A Pilot Study," Charles Roberts (PI) and Shih-Lung Shaw, funded by the South Florida Water Management District, \$25,000.
1995. "Historical Vegetation Mapping," Charles Roberts (PI), Shih-Lung Shaw, and Dan Austin, funded by South Florida Water Management District, \$75,000.
1995. "Boating Activity Study for the Waters of St. Lucie and Martin Counties," Ronald Schultz (PI) and Shih-Lung Shaw, funded by the Florida Department of Environmental Protection, \$92,595.
1994. "New Trip Generation and Distribution Process for FSUTMS," Reid Ewing (PI) and Shih-Lung Shaw, funded by the Florida Department of Transportation, \$150,000.
1994. "Lake Okeechobee Ecosystem Mapping," Charles Roberts (PI), Shih-Lung Shaw, and Dan Austin, funded by the South Florida Water Management District, \$80,000.
1993. "An Integrated Undergraduate Instruction in Digital Geographic Data Handling," Shih-Lung Shaw (PI), Charles Roberts, and Ronald Schultz, funded by the National Science Foundation (DUE-9351053), \$66,043.
1993. "A Pilot Research Project of Implementing a Spatio-Temporal GIS with User-friendly Visualization Designs," Shih-Lung Shaw (PI), funded by the Faculty Research Grants, Florida Atlantic University Foundation, \$1,440.
1993. International travel grant funded by the Florida Atlantic University Foundation to present a paper at the 3rd International Workshop on GIS and to give a lecture at an Advanced GIS Seminar in Beijing, China, August 1993, \$1,000.
1993. "Introduction to GIS Workshop," Shih-Lung Shaw (PI), funded by the Broward County Government, Florida, \$6,000.
1992. "GIS Mapping of Emergency Response Times in Palm Beach County," Shih-Lung Shaw (PI), funded by the Palm Beach County Government, Florida, \$1,500.

- 1991. "Management Plan for the Cross Florida Greenbelt State Conservation and Recreation Area -GIS Database Design," Shih-Lung Shaw (PI), funded by the State of Florida, \$3,500.
- 1991. "Development of An Archaeological Site Predictive Model for Palm Beach County," William J. Kennedy (PI), Shih-Lung Shaw, and Charles Roberts, funded by the Palm Beach County Government, Florida, \$29,852.
- 1990. "Palm Beach County Archaeological Survey and Creation of a GIS Database," William J. Kennedy (PI) and Shih-Lung Shaw, funded by Palm Beach County Government, Florida, \$4,999.
- 1990. "Accessibility to the Tri-Rail System: A Case Study of Broward County," Shih-Lung Shaw (PI), funded by the Division of Sponsored Research, Florida Atlantic University, \$4,977.
- 1989. "A GIS-based Cultural Resource Management System for Palm Beach County," William J. Kennedy (PI) and Shih-Lung Shaw, funded by the Florida Atlantic University/Florida International University Joint Center for Environmental and Urban Problems, \$6,722.
- 1989. "Establishment of a Geographic Information System Database for the Coleman Park Revitalization Area," Shih-Lung Shaw (PI), funded by the Palm Beach Housing Partnership, Inc., Florida, \$4,000.

C. Invited Presentations at Research Workshops and Other Research Exchange Activities

- 2021. Invited to give a presentation at a Webinar of University Consortium for Geographic Information Science (UCGIS), October 20, 2021 (delivered online)
- 2021, Invited to give a presentation at the Department of Geography, University at Buffalo, Buffalo, New York, October 1, 2021
- 2021. Invited to give a presentation at a Webinar of Computational Social Science Laboratory, Chinese University of Hong Kong, Hong Kong, August 26, 2021 (delivered online)
- 2021. Invited to give a presentation at Advanced Training in Smart Cities, Hong Kong Polytechnic University, Hong Kong, June 15, 2021 (delivered online)
- 2021. Invited to give a presentation at the Department of Geography, National Taiwan University, Taipei, Taiwan, May 12, 2021
- 2020. Invited to give a presentation at the Wyoming Geographic Information Science Center, University of Wyoming, Laramie, Wyoming, November 18, 2020 (delivered online)
- 2020. Invited to serve as a discussant at the Rethinking Space and the Uses of GIScience in Digital Humanities Research Seminar, Humanities Center, University of Tennessee, Knoxville, Tennessee, October 23, 2020 (delivered online).
- 2019. Invited to give a presentation at the Convergent GIScience Priorities Workshop, University of Arkansas, Fayetteville, Arkansas, October 28, 2019
- 2019. Invited to give a presentation at the Spatial History Seminar, University of Tennessee, Knoxville, Tennessee, October 25, 2019
- 2019. Invited to give a presentation at the Department of Land Surveying and Geo-Informatics, Hong Kong Polytechnic University, Kowloon, Hong Kong, October 9, 2019
- 2019. Invited to give a presentation at the Bureau of Transportation Statistics, U.S. Department of Transportation, Washington, DC, April 4, 2019

2019. Invited to give a presentation at the Department of Urban Engineering, University of Tokyo, Tokyo, Japan, March 25, 2019
2019. Invited to give a presentation at the Research Center for Humanities and Social Sciences, Academia Sinica, Taipei, Taiwan, March 15, 2019
2019. Invited to give a presentation at the Department of Geography, National Taiwan University, Taipei, Taiwan, March 14, 2019
2018. Invited to give a presentation at the Department of Geography, Ohio State University, Columbus, Ohio, October 10, 2018
2017. Invited to give a presentation at Shenzhen University, Shenzhen, China, November 16, 2017
2017. Invited to give a presentation at the Lands Department, Government of the Hong Kong Special Administrative Region, Hong Kong, November 13, 2017
2017. Invited to give a presentation at the Department of Land Surveying and Geo-Informatics, Hong Kong Polytechnic University, Kowloon, Hong Kong, June 22, 2017
2017. Invited to give a presentation at the Department of Geography, National Taiwan Normal University, Taipei, Taiwan, June 13, 2017
2017. Invited to give a presentation at the National Science Foundation (NSF) Workshop on Advancing Movement and Mobility Science: Analyzing Moving Entities within Geographic Context, Columbus, Ohio, May 11, 2017
2017. Invited to give an online presentation to a GIS class in the Department of Geosciences, East Tennessee State University, Johnson City, Tennessee, April 20, 2017
2017. Invited to give a presentation at a 3MR Forum for Fellows of the Center for Transportation Research, University of Tennessee. Knoxville, Tennessee, February 15, 2017
2016. Invited to give a presentation at the School of Information Science and Technology and the School of Tourism and Geographical Sciences, Yunnan Normal University, Kunming, China, December 14, 2016
2016. Invited to be a panelist of the First Interdisciplinary Forum, Shenzhen University, Shenzhen, China, December 7, 2016
2016. Invited to give a presentation at the Institute of Geographical Science, Guangzhou Academy of Sciences, Guangzhou, China, November 29, 2016
2016. Invited to give a keynote presentation at the Second International Conference on Location-based Social Media Data, Shanghai, China, August 26-28, 2016.
2016. Invited to give a keynote presentation at the 17th International Symposium on Spatial Data Handling, Beijing, China, August 18-20, 2016.
2016. Invited to give a presentation to the Speaker Series of Advanced Geoinformatics Research Topics, Wuhan University, Wuhan, China, March 14, 2016.
2016. Invited to give a presentation at the Department of Traffic Engineering, Tongji University, Shanghai, China, March 10, 2016.
2016. Invited to give a presentation at the Department of Geography, University of North Carolina, Greensboro, North Carolina, February 19, 2016.
2015. Invited to give a keynote presentation at the Urban Informatics Conference, Shenzhen, China, December 12, 2015.

2015. Invited to give a presentation at the 11th Workshop on Spatial Behavior and Planning: Spatial-temporal Behavior Theory and Application Frontiers, Guangzhou, China, December 11, 2015.
2015. Invited to give a presentation at the Research Center for Intelligent Transportation System, Sun Yat-Sen University, Guangzhou, China, September 10, 2015.
2015. Invited to give a presentation at the Institute of Remote Sensing and Geographical Information Systems, Peking University, Beijing, China, September 6, 2015.
2015. Invited to give a presentation at the NSF-CDI Specialist Meeting of Human Dynamics in the Mobile Age, San Diego, California, August 11, 2015.
2015. Invited to give a keynote presentation at the International Conference on Location-based Social Media Data, Athens, Georgia, March 13, 2015.
2014. Invited to give a presentation at the Robinson Colloquium, Department of Geography, The Ohio State University, Columbus, Ohio, November 21, 2014.
2014. Invited to give a presentation at the Institute of Space and Earth Information Science, Chinese University of Hong Kong, Hong Kong, China, October 31, 2014.
2014. Invited to give a presentation at the Experian R&D Data Lab, San Diego, California, August 14, 2014.
2014. Invited to give a presentation at the NSF-CDI Specialist Meeting of Human Dynamics in the Mobile Age, San Diego, California, August 11, 2014.
2014. Invited to give a presentation at the Research Center for Humanities and Social Sciences, Academia Sinica, Taipei, Taiwan, July 21, 2014.
2014. Invited to give a presentation at the Supergeo Technologies, Taipei, Taiwan, July 5, 2014.
2014. Invited to give a keynote presentation at the International Conference on Geoinformatics, Kaohsiung, Taiwan, June 26, 2014.
2014. Invited to give a presentation at the International Time-Geography Days, Linköping University, Linköping, Sweden, May 14, 2014.
2014. Invited to give a presentation at the Department of Geography, National Taiwan University, Taipei, Taiwan, January 8, 2014.
2014. Invited to give a presentation at the Department of Geomatics, National Cheng Kung University, Tainan, Taiwan, January 6, 2014.
2013. Invited to give a presentation at the School of Remote Sensing and Information Engineering, Wuhan University, Wuhan, China, December 26, 2013.
2013. Invited to serve as an organizer and a mentor of the Silk-Net GIScience Summer Institute sponsored by the Institute of Geographic Sciences and Natural Resources Research, the Chinese Academy of Sciences, Suzhou, China, June 25-29, 2013.
2013. Invited to give a presentation at the GIScience Forum, Tongji University, Shanghai, China, June 24, 2013.
2013. Invited to give a presentation at a “Geocomputation in the Era of Big Data” panel session at the GeoComputation Conference, Wuhan, China, May 25, 2013.
2013. Invited to give a presentation at the Geospatial Information for Smart City Summit (GIS-SmartCity 2013), Wuhan, China, May 16, 2013.
2013. Invited to give a presentation at Shenzhen Institutes of Advanced Technology, the Chinese Academy of Sciences, Shenzhen, China, May 10, 2013.
2013. Invited to give a presentation at the Department of Civil and Environmental Engineering, University of Tennessee, Knoxville, Tennessee, March 14, 2013.

2012. Invited to give a presentation at the School of Civil and Environmental Engineering, Georgia Institute of Technology, Atlanta, Georgia, March 8, 2013.
2012. Invited to give a presentation at Shenzhen University, Shenzhen, Guangdong, China, December 31, 2012.
2012. Invited to give a presentation at the *Space-Time GIScience and Analysis Forum* sponsored by the Chinese Academy of Sciences and Wuhan University. This forum was held at the Chinese Academy of Sciences in Beijing and Wuhan University in Wuhan, China, on November 13 & 15, 2012, respectively.
2012. Invited to participate in the *Visualizing Flow and Movement in the Humanities Workshop* sponsored by the National Endowment of Humanities (NEH) at the University of Redlands, Redlands, California, October 29-30, 2012.
2012. Invited to give a presentation at the School of Civil and Environmental Engineering, Georgia Institute of Technology, Atlanta, Georgia, September 25, 2012.
2012. Invited to give a presentation at Kunming University of Science and Technology, Kunming, Yunnan, China, July 9, 2012.
2012. Invited to give a presentation at Chang'an University, Xi'an, Shaanxi, China, May 22, 2012.
2012. Invited to give a presentation at Changsha University of Science and Technology, Changsha, Hunan, China, March 19, 2012.
2012. Invited to give a colloquium presentation at the Department of Geography, University of Georgia, Athens, Georgia, February 3, 2012.
2011. Invited to give a presentation at the State Key Laboratory of Information Engineering in Surveying, Mapping and Remote Sensing (LIESMARS), Wuhan University, Wuhan, China, December 27, 2011.
2011. Invited and funded to give a presentation at an *ICT Experts Group Meeting*, which was held at the German Aerospace Center (DLR), Berlin, Germany, November 30 - December 2, 2011.
2011. Invited and funded to give a presentation and have meetings at the Department of Human Geography, Stockholm University, Stockholm, Sweden, November 22, 2011.
2011. Invited and funded to give a presentation at the Swedish Road and Traffic Institute and have meetings at the Department of Thematic Studies, Linköping University, Linköping, Sweden, November 25, 2011.
2011. Invited to give a presentation at the Shi-Jian Forum, State Key Laboratory of Resources and Environmental Information System (LREIS), Institute of Geographic Sciences and Natural Resources Research, the Chinese Academy of Sciences, Beijing, China, October 21, 2011.
2011. Invited to give a presentation at the Center for Intelligent Systems and Machine Learning, University of Tennessee, Knoxville, Tennessee, April 18, 2011.
2011. Invited to give a presentation at the Transportation Seminar sponsored by the Department of Geography and the Department of Civil and Environmental Engineering, University of Connecticut, Storrs, Connecticut, March 28, 2011.
2010. Invited to give a presentation at the *Specialist Meeting of Spatio-Temporal Constraints on Social Networks*, which was held at Upham Hotel, Santa Barbara, California, December 13-14, 2010.

2010. Invited to give a keynote presentation at *2010 Asia GIS International Conference*, which was held at Garden Villa Hotel, Kaohsiung, Taiwan, November 5-6, 2010.
2010. Invited to give a keynote presentation at *2010 Digital Archives GIScience Conference*, which was held at National Taiwan University, Taipei, Taiwan, October 12-13, 2010.
2010. Invited to give a presentation at the Center for Urban and Regional Analysis, Department of Geography, The Ohio State University, Columbus, Ohio, September 3, 2010.
2010. Invited to organize and give presentations at the *Advanced GIScience Research Workshop*, which was held at the Academia Sinica, Taipei, Taiwan, July 14-16, 2010.
2010. Invited to give a presentation at the *Space-Time Modeling and Analysis Workshop*, which was held at the Environmental Systems Research Institute (ESRI), Redlands, California, February 22-23, 2010.
2010. Invited to give an online presentation to researchers at the Center for Wireless and Population Health System, University of California at San Diego, February 8, 2010.
2009. Invited to give a keynote presentation at *2009 International Workshop on GIS for Transportation*, which was held in Wuhan, China, December 4-6, 2009.
2009. Invited to give a presentation at the *International Conference of GIS in the Humanities and Social Sciences*, which was held at Academia Sinica, Taipei, Taiwan, October 7-9, 2009.
2009. Invited to give a presentation at the *Second Spatial Socio-cultural Knowledge Workshop*, which was held at the Defense Academy of the United Kingdom, Shrivenham, UK, June 16, 2009.
2009. Invited to give a presentation at Microsoft Research Institute (Asia), Beijing, China, May 26, 2009.
2009. Invited to give a presentation at the Institute of Geographic Sciences and Natural Resources Research, the Chinese Academy of Sciences, Beijing, China, May 20, 2009.
2008. Invited to give a presentation at the *Conference on Energy Resources and Green Economy*, which was held at Shanghai University, Shanghai, China, October 19-20, 2008.
2008. Invited to give a presentation to the President and selected administrators of Chinese Culture University, Taipei, Taiwan, June 10, 2008.
2008. Invited to give a presentation at the Graduate Institute of National Development, National Taiwan University, Taipei, Taiwan, June 3, 2008.
2008. Invited to give a presentation at the GIS Research Center, Feng Chia University, Taichung, Taiwan, May 29, 2008.
2008. Invited to give a presentation at the Department of Geography, National Taiwan University, Taipei, Taiwan, May 27, 2008.
2008. Invited to give a presentation at the *Third Specialists Meeting on Information and Communications Technology (ICT), Everyday Life and Urban Change* sponsored by the Faculty of the Built Environment and the Center for Transport and Society, University of the West of England, Bristol, UK, March 16-19, 2008.
2007. Invited to participate in the *Workshop for Advanced Research in Geospatial Information Technologies for Transportation* sponsored by the U.S. Transportation Research Board. This workshop, with an objective of looking forward 5-20 years and formulating a research and development agenda for solving major challenges facing transportation systems using geospatial information technologies, was held at the Keck Center, U.S. National Academies, Washington, DC, September 20-21, 2007.

2007. Invited and funded to give a keynote presentation at the *First GIS for Transportation (GIS-T) Symposium of China*, which was held at Wuhan University, Wuhan, China, June 18-26, 2007.
2006. Invited to conduct research exchange activities and to give lectures on GIS for Transportation (GIS-T) at Wuhan University, Wuhan, China, June 1-30, 2006.
2006. Invited with Harvey Miller at the University of Utah to give presentations of time geography and GIS for transportation (GIS-T) at the Chinese Academy of Sciences, Beijing University, Tsinghua University, Beijing Normal University, China Eastern Normal University, and Nanjing University. This tour of research exchanges with Chinese universities in three different cities (Beijing, Shanghai and Nanjing) was sponsored by the Chinese Academy of Sciences and various universities, May 15-28, 2006.
2005. Invited to give a presentation at the *Research Symposium on Societies and Cities in the Age of Instant Access* sponsored by the University of Utah. This research symposium was held at the University of Utah, Salt Lake City, Utah, November 10-12, 2005.
2005. Invited to give a presentation at the *GPS Tracking, Time-Geography Applications for Activity Modeling and Microsimulation Specialists Meeting* sponsored by the U.S. Federal Highway Administration. This meeting, which assembled experts to discuss potential approaches on using GPS vehicle traces for defining space-time paths and prisms to be used in activity modeling and microsimulation for transportation analysis, was held at Upham Hotel, Santa Barbara, California, November 10-11, 2005.
2004. Invited to give a presentation at the *Information and Communications Technologies (ICT): Mobilizing Persons, Places, and Spaces Specialists Meeting* sponsored by the Netherlands Organization for Scientific Research and the Utrecht University. This meeting, which focused on assessing the effects of ICT on individual activity and travel behavior as well as their implications, was held in Doorn, The Netherlands, November 4-7, 2004.
2004. Invited to give a presentation at the *Third Focus Group Meeting on Information and Communication Technologies, Innovation and the Transport System – Sustainable Transport in Europe and Links and Liaisons with America (STELLA)/Sustainable Transportation Analysis and Research (STAR)*. This Focus Group focused on a comparative North American and European analysis of the ways in which information and communication technology (ICT) are intersecting with new ways of living and working within metropolitan regions. This trans-Atlantic research network project was funded by the European Commission's 5th Framework Programme for Research and Development (STELLA project), the U.S. National Science Foundation (STAR project), and the Transport Canada for three years (2002-2004). The third focus group meeting was held in Budapest, Hungary, April 22-23, 2004.
2003. Invited to give a presentation at the *Second Focus Group Meeting on Information and Communication Technologies, Innovation and the Transport System – Sustainable Transport in Europe and Links and Liaisons with America (STELLA)/Sustainable Transportation Analysis and Research (STAR)*. This meeting was held in Newcastle, United Kingdom, May 8-10, 2003. The aim of this meeting was for consolidation and exploration of research themes.
2002. Invited to participate in discussions at the *Action-Oriented Approaches in Geographic Information Science Workshop* sponsored by the U.S. National Science Foundation. This meeting was held in Holden, Maine, November 2-4, 2002. The aim of this workshop was

to lay the foundations for a principled account of dynamic features of geographic space and to clarify and define a research agenda for action-oriented approaches in geographic information science.

2002. Invited to participate in discussions at the *First Focus Group Meeting on Information and Communication Technologies, Innovation and the Transport System – Sustainable Transport in Europe and Links and Liaisons with America (STELLA)/Sustainable Transportation Analysis and Research (STAR)*. This meeting was held at the National Science Foundation, Arlington, Virginia, January 15-17, 2002.
1999. Invited to give a presentation at the *International Workshop on GIS for Transportation (GIS-T) and Intelligent Transportation Systems (ITS)* sponsored by the Chinese University of Hong Kong, the U.S. National Center for Geographic Information and Analysis, and the Chinese Academy of Sciences. This workshop, which served as a forum of knowledge exchanges between researchers and professionals working on theories, applications, and implementations of GIS-T and ITS, was held at the Chinese University of Hong Kong, Satin, Hong Kong, April 26-28, 1999.

D. Presentations/Panel Discussions/Lectures Delivered at Professional Meetings

2021. Shaw, S-L. “A Human-Centric GIScience Framework for Time Geography in a Hybrid Physical-Virtual World,” presentation at the Annual Meeting of the American Association of Geographers, Seattle. Washington (delivered online)
2021. Toshinori, A. and Shaw, S-L. “Dynamic Population Distribution Pattern: A Comparison of Three Datasets for Tokyo, Japan,” presentation at the Annual Meeting of the American Association of Geographers, Seattle. Washington (delivered online)
2021. Feng, J. and Shaw, S-L. “A Mental-Spatial Accessibility Approach for Food Access Research,” presentation at the Annual Meeting of the American Association of Geographers, Seattle. Washington (delivered online)
2020. Shaw, S-L. “Human-Centric Space-Place GIScience Framework,” keynote presentation at the 18th International Symposium on Web and Wireless Geographical Information Systems, Wuhan, China (delivered online)
2019. Shaw, S-L. “GIScience beyond Absolute Space: A Space-Place (Spatial) GIScience Framework,” presentation at the Annual Meeting of the American Association of Geographers, Washington, DC
2019. Shaw, S-L. “Multiple Conceptualizations of Space in GIScience,” presentation in a panel session on What Does Space Mean in GIScience at the Annual Meeting of the American Association of Geographers, Washington, DC
2019. Shaw, S-L. “Spatial Networks vs. Social Networks,” presentation in a panel session on Spatial-Social Networks at the Annual Meeting of the American Association of Geographers, Washington, DC
2019. Peng, G., Li, C. and Shaw, S-L. “Analysis on Ship Officer’s Spatial Perceptual Ability of Ship Moving Trend Situation,” presentation at the Annual Meeting of the American Association of Geographers, Washington, DC
2019. Feng, J. and Shaw, S-L. “How Well Do Various Transportation Services Serve the Diversity of Neighborhoods and People in New York City,” presentation at the Annual Meeting of the American Association of Geographers, Washington, DC

2018. Shaw, S-L. "Human Dynamics Research and Geographic Information Science," presentation at the Pacific Neighborhood Consortium Annual Conference and Joint Meeting, San Francisco, California
2018. Shaw, S-L. "A Multi-Space GIScience Framework for Human Dynamics Research," presentation delivered in a panel session on Human Dynamics and Smart Cities at the 26th International Conference on Geoinformatics, Kunming, China
2018. Shaw, S-L. "A Multi-Space Framework for Human Dynamics Research," presentation at the Annual Meeting of the American Association of Geographers, New Orleans, Louisiana
2018. Shaw, S-L. "A New Framework for Spatial Data Science," presentation in a panel session on Spatial Data Science at the Annual Meeting of the American Association of Geographers, New Orleans, Louisiana
2018. Shaw, S-L. "Considering Humans in Autonomous Vehicles, Artificial Intelligence, and Geospatial Science Research," keynote presentation at the Fifth Seminar for Intelligent Spatial Information Service, Wuhan, China
2017. Shaw, S-L. "Prospects and Challenges of Human Dynamics Research," keynote presentation at the Exploring Human Mobility Patterns from Mobile Phone Data Workshop, Taipei, Taiwan
2017. Shaw, S-L. "GIScience for Human Dynamics Research," keynote presentation at the Third International Conference on Spatial Data Mining and Geographical Knowledge Services (ICSDM 2017), ISPRS Geospatial Week, Wuhan, China
2017. Shaw, S-L. "Human Dynamics in Urban Simulation," keynote presentation at the Urban Simulation Workshop, RISUD Annual International Symposium 2017 – Smart Cities, Hong Kong Polytechnic University, Hong Kong
2017. Shaw, S-L. "Human Dynamics Research with Urban Informatics: Some Lessons Learned," presentation at the First International Conference on Urban Informatics, Hong Kong
2017. Shaw, S-L. "Time Geography and GIScience: A Diorama-oriented Approach," presentation at the 25th International Conference on Geoinformatics, Buffalo, New York
2017. Shaw, S-L. "Movement and Mobility Analysis within the Context of Time Geography and Beyond," presentation at the National Science Foundation (NSF) Workshop on Advancing Movement and Mobility Science: Analyzing Moving Entities within Geographic Context, Columbus, Ohio
2017. Shaw, S-L. "Human Dynamics Research beyond Time Geography's Path and Prism Concepts," presentation at the Annual Meeting of the American Association of Geographers, Boston, Massachusetts
2017. Shaw, S-L. "Special Issue on Human Dynamics in the Mobile and Big Data Era," invited presentation in an "International Journal of Geographical Information Science Special Issues" session at the Annual Meeting of the American Association of Geographers, Boston, Massachusetts
2017. Yin, L., Mao, L., Mei, S., Song, X., Shaw, S-L. and Lin, N. "Simulating Intra-urban Intervention Strategies for Dengue Fever with Large-scale Mobile Phone Location Data," presentation at the Annual Meeting of the American Association of Geographers, Boston, Massachusetts

2017. Peng, G., Shaw, S-L., Li, N. and Fang, Z. "A GIS-based Relative Navigation System for Monitoring the Overall Ship Movement Situation," presentation at the Annual Meeting of the American Association of Geographers, Boston, Massachusetts
2016. Chen, J. and Shaw, S-L. "Representing the Spatial Extent of Places based on Flickr Photos with a Representativeness-weighted Kernel Density Estimation," presentation at the GIScience 2016 Conference, Montreal, Canada
2016. Shaw, S-L. "GIScience beyond the Conventional Spatial Data Handling," invited keynote presentation at the Second International Conference on Location-based Social Media Data, Shanghai, China
2016. Shaw, S-L. "GIScience beyond the Conventional Spatial Data Handling," invited keynote presentation at the 17th International Symposium on Spatial Data Handling, Beijing, China
2016. Shaw, S-L. "Some Reflections on Human Dynamics Research Using Mobile Phone Location Data," presentation at the Annual Meeting of the Association of American Geographers, San Francisco, California
2016. Chen, J. and Shaw, S-L. "Estimating Place Extent from Geotagged Photos Using Kernel Density Estimation with Consideration of Photo Representativeness," presentation at the Annual Meeting of the Association of American Geographers, San Francisco, California
2016. Tran, L., Chen, J. and Shaw, S-L. "How Cab Drivers in Wuhan, China Make Routing Decisions - Determine the Relative Importance of Interrelated Variables in a Large Spatial Dataset," presentation at the Annual Meeting of the Association of American Geographers, San Francisco, California
2016. Yue, Y., Zhuang, Y., Tu, W., Chang, X. and Shaw, S-L. "Can We Reestablish the Fact from Fragmented Information? - Using Travel Survey as An Example," presentation at the Annual Meeting of the Association of American Geographers, San Francisco, California
2016. Chen, B., Yuan, H., Li, Q. and Shaw, S-L. "Spatiotemporal Data Model for Network Time Geographic Analysis in the Era of Big Data," presentation at the Annual Meeting of the Association of American Geographers, San Francisco, California
2016. Chang, X., Yue, Y., Tu, W., Jian, Z., Li, Q. and Shaw, S-L. "Deriving Commuting Origin-destination Data from Large-scale Human Tracking Data," presentation at the Annual Meeting of the Association of American Geographers, San Francisco, California
2016. Tu, W., Cao, R., Cao, J., Li, Q. and Shaw, S-L. "Spatial-Temporal Variation of Public Transit Ridership Inferring from Smart Card Data and Mobile Phone Data," presentation at the Annual Meeting of the Association of American Geographers, San Francisco, California
2015. Shaw, S-L. "Understanding Human Dynamics with Mobile Phone Location Data", invited keynote presentation at the Urban Informatics Conference, Shenzhen, China
2015. Shaw, S-L. "Potentials and Limitations of Using Mobile Phone Location Data to Study Human Dynamics", invited presentation at the 11th Workshop on Spatial Behavior and Planning: Spatial-temporal Behavior Theory and Application Frontiers, Guangzhou, China
2015. Xu, Y., Shaw S-L., Yin, L. and Zhao, Z. "Understanding Individual Daily Activity Space Based On Large Scale Mobile Phone Location Data," presentation at the GeoComputation 2015 Conference, Dallas, Texas
2015. Shaw, S-L. "Comments on Spatial Data Mining and Big Data Analytics," invited presentation in the Spatial Data Mining and Big Data Analytics Panel Session of the Annual Meeting of the Association of American Geographers, Chicago, Illinois

2015. Shaw, S-L., Lu, S. and Fang, Z. “How Big Is Big Enough? – A Case Study of Spatial Interaction Model,” presentation at the Annual Meeting of the Association of American Geographers, Chicago, Illinois
2015. Lu, S., Fang, Z. and Shaw, S-L. “Using Mobile Phone Tracking Data to Improve the Performance of Huff Model,” presentation at the Annual Meeting of the Association of American Geographers, Chicago, Illinois
2015. Shaw, S-L. “Social Media Analytics for Physical, Virtual and Social Spaces,” invited keynote presentation at the International Conference on Location-based Social Media Data, Athens, Georgia
2015. Zhao, Z., Shaw, S-L., Xu, Y. and Yin, L. “Extract and Compare Generalized Urban Population Movement Patterns Derived from Different Tracking Datasets,” presentation at the International Conference on Location-based Social Media Data, Athens, Georgia
2014. Shaw, S-L. “Big Data, Human Dynamics, and Space-Time GIS,” invited presentation at the NSF-CDI Specialist Meeting of Human Dynamics in the Mobile Age, San Diego, California
2014. Shaw, S-L. “Big Data, Human Dynamics, and Space-Time GIS,” invited keynote presentation at the International Conference on Geoinformatics, Kaohsiung, Taiwan
2014. Shaw, S-L. “Integrating Time Geography and Space-Time GIS for Human Dynamics Research,” invited presentation at the International Time-Geography Days, Linköping University, Linköping, Sweden
2014. Shaw, S-L. “Potentials and Challenges of Understanding Human Dynamics with Space-Time Analysis of Individual Tracking Data,” presentation at the Annual Meeting of the Association of American Geographers, Tampa, Florida
2014. Shaw S-L. “Space and Time in Human Dynamics Research,” presented in a Spatiotemporal Thinking, Computing, and Applications panel session at the Annual Meeting of the Association of American Geographers, Tampa, Florida
2014. Chen, J. and Shaw S-L. “Arranging Daily Activities based on A Space-Time Prism Approach,” presentation at the Annual Meeting of the Association of American Geographers, Tampa, Florida
2014. Fang, Z., Lu, S., Shaw S-L. and Xu, J. “Impacts of Grid-based Scaling on Urban Human Mobility,” presentation at the Annual Meeting of the Association of American Geographers, Tampa, Florida
2014. Xu, Y., Shaw S-L., Zhao, Z., Yin, L. and Fang, Z. “Understand Individual and Aggregate Human Mobility Patterns from Mobile Phone Location Data - A Case Study of Shenzhen, China,” presentation at the Annual Meeting of the Association of American Geographers, Tampa, Florida
2014. Yin, L., Shaw S-L., Hu, J., Wang, Q. and Xu, N. “Privacy Risk versus Privacy Preservation for Research Using Individual Mobile Phone Tracking Data,” presentation at the Annual Meeting of the Association of American Geographers, Tampa, Florida
2014. Zhao, Z., Shaw S-L., Xu, Y., Yin, L. and Fang, Z. “Mobile Phone Towers as Sensors: Uncovering the Pulse of A City Using Mobile Phone Location Data,” presentation at the Annual Meeting of the Association of American Geographers, Tampa, Florida
2013. Shaw S-L. “Integrating Geo-information in Physical and Virtual Spaces,” presentation at the GIScience Forum, Shanghai, China

2013. Shaw, S-L. "Big Data, Big Opportunities and Big Challenges," presented at a "Geocomputation in the Era of Big Data" panel session at the GeoComputation 2013 Conference, Wuhan, China
2013. Wang, D., Zhao, Z., Shaw, S-L., Ragghianti, G. and Wei, Y. "Building a High Performance ArcGIS Cluster and its Application to Climate Data Processing," presentation at the GeoComputation 2013 Conference, Wuhan, China
2013. Shaw, S-L. "Exploring Urban Dynamics with Individual Tracking Data," presentation at the Geospatial Information for Smart City Summit on Smart City (GIS-SmartCity 2013), Wuhan, China
2013. Chang, X., Shaw, S-L., Li, Q. and Chen, B.Y. "Geographic Patterns of Microblog Interactions in China," presentation at the Annual Meeting of the Association of American Geographers, Los Angeles, California
2013. Xu, Y. and Shaw, S-L. "Exploring Spatio-temporal Changes of User Generated Contents from Flickr Data," presentation at the Annual Meeting of the Association of American Geographers, Los Angeles, California
2013. Zhao, Z., Shaw, S-L. and Fang, Z. "Exploring the Evolving Collaboration Patterns of IJGIS Authorship Network," presentation at the Annual Meeting of the Association of American Geographers, Los Angeles, California
2012. Shaw, S-L. "Space-Time GIScience and Analysis: Time Geography and Beyond," presentation at the GIScience Forum, Beijing, China
2012. Zhao, Z. and Shaw, S-L. "An Object-Oriented Space-Time GIS Data Model for Time-Geographic Research," presentation at the Time Geography Workshop of the GIScience 2012 Conference, Columbus, Ohio
2012. Chen, J., Shaw, S-L., Xu, Y., Li, Q., Fang, Z. and Li, Y. "Where and When Taxi Drivers Deviate from the Shortest Path in Their Route Choices: A Case Study of Wuhan, China," presentation at the GIScience 2012 Conference, Columbus, Ohio
2012. Xu, Y., Shaw, S-L., Chen, J., Li, Q., Fang, Z. and Li, Y. "Uncovering Repeated Spatio-temporal Behavioral Patterns Embedded in GPS-based Taxi Tracking Data," presentation at the GIScience 2012 Conference, Columbus, Ohio
2012. Shaw, S-L. "From Physical Space to Virtual Space," presentation at the Specialists Meeting of NSF CDI Project of Mapping Ideas: Discovering and Information Landscapes, San Diego, California
2012. Shaw, S-L. and Yin, L. "A Space-Time GIS of Integrating Physical, Virtual and Social Activities," presentation at the Geoinformatics 2012 Conference, Hong Kong, China
2012. Shaw, S-L. "Space-Time Geography (Time Geography)," presented at the "Spatiotemporal thinking, computing and applications" panel session at the Geoinformatics 2012 Conference, Hong Kong, China
2012. Shaw, S-L. and Yin, L. "An Extension of Time Geography to Integrate Physical, Virtual and Social Activities in A Space-Time Context," presentation at the Annual Meeting of the Association of American Geographers, New York City, New York
2012. Yin, L. and Shaw, S-L. "Exploring Dynamic Relationships between Physical Proximity and Virtual Interactions," presentation at the Annual Meeting of the Association of American Geographers, New York City, New York

2012. Zhao, Z., Shaw, S-L. and Wang, D. “An Object-Oriented Space-Time GIS Data Model for Raster,” presentation at the Annual Meeting of the Association of American Geographers, New York City, New York
2012. Chen, J., Shaw, S-L., Lu, F., Yu, H., Chai, Y. and Zhou, S. “Comparison of People’s Daily Activities in Beijing and Guangzhou, China: A Space-Time GIS,” presentation at the Annual Meeting of the Association of American Geographers, New York City, New York
2011. Shaw, S-L. “Extending Time Geography for Studying Physical, Virtual and Online Social Activities,” presentation at an Information and Communication Technology (ICT) Experts Group Meeting, Berlin, Germany
2011. Shaw, S-L. “Tracking and Analyzing Individual Activities and Interactions: A Space-Time GIS Approach,” keynote presentation at the GIS Theories and Methods Conference, Changchun, China
2011. Shaw, S-L. “Space, Time and Human Activities in Physical and Virtual Spaces,” presentation at the Specialists Meeting of NSF CDI Project of Mapping Ideas: Discovering and Information Landscapes, San Diego, California
2011. Shaw, S-L. and Yu, H. “Time Geography and Space-Time Integration,” presentation at the Annual Meeting of the Association of American Geographers, Seattle, Washington
2011. Yin, L. and Shaw, S-L. “A GIS-based Time-Geographic Framework for Human Interaction in Virtual Space,” presentation at the Annual Meeting of the Association of American Geographers, Seattle, Washington
2011. Yu, H. and Shaw, S-L. “A Study of Similarity Measures for Space-Time Paths,” presentation at the Annual Meeting of the Association of American Geographers, Seattle, Washington
2011. Chen, J., Shaw, S-L., Lu, F., Yu, H., Chai, Y. and Jia, Q. “Exploring Human Activity Patterns in Beijing, China based on A Space-Time GIS Approach,” presentation at the Annual Meeting of the Association of American Geographers, Seattle, Washington
2010. Shaw, S-L. “Spatio-Temporal Constraints on Social Networks – The Visualization Perspective,” invited presentation at the Specialist Meeting of Spatio-Temporal Constraints on Social Networks, Upham Hotel, Santa Barbara, California
2010. Shaw, S-L. “Space-Time GIS for A Dynamic and Mobile World,” keynote presentation given at 2010 Asia GIS International Conference, Garden Villa Hotel, Kaohsiung, Taiwan
2010. Shaw, S-L. “Lost Time? – Challenges of Integrating Time into Digital Archives GIScience,” keynote presentation given at 2010 Digital Archives GIScience Conference, National Taiwan University, Taipei, Taiwan
2010. Shaw, S-L. “Space and Time in Geographic Information Science,” presentation given at the Advanced GIScience Workshop, Academia Sinica, Taipei, Taiwan
2010. Shaw, S-L. “Time Geography: Its Past, Present, and Future,” presentation at the Annual Meeting of the Association of American Geographers, Washington, DC
2010. Yin, L. and Shaw, S-L. “Potential Effects of ICT on Face-to-Face Meeting Opportunities: A GIS-based Time-Geographic Exploratory Approach,” presentation at the Annual Meeting of the Association of American Geographers, Washington, DC
2010. Xu, Y. and Shaw, S-L. “A Location-based Spatio-temporal GIS Application for Interactive Meeting Opportunity Analysis,” presentation at the Annual Meeting of the Association of American Geographers, Washington, DC

2010. Shaw, S-L. "A Space-Time GIS for Analyzing Human Activities and Interactions," presentation at the ESRI Space-Time Modeling and Analysis Workshop, Redlands, California
2009. Shaw, S-L. "From Aggregate Snapshots to Disaggregate Dynamics: Implications of Individual Tracking Data to GIS-T," keynote presentation delivered at the 2009 International Workshop on GIS for Transportation, Wuhan, China
2009. Shaw, S-L. "A Space-Time GIS for Studying Individual-based Human Activities and Interactions," presentation at the International Conference of GIS in the Humanities and Social Sciences, Taipei, Taiwan
2009. Shaw, S-L. "A Space-Time GIS for Tracking and Analysis of Human Activities and Interactions in a Hybrid Physical-Virtual Space," presentation at the Second Spatial Social-cultural Knowledge Workshop, Defense Academy of the United Kingdom, Shrivenham, the United Kingdom
2009. Shaw, S-L. "Individual-based Tracking Data: Potentials and Challenges to Transportation Geography," Fleming Lecture delivered at the Annual Meeting of the Association of American Geographers, Las Vegas, Nevada
2009. Yu, H. and Shaw, S-L. "A Space-Time GIS for Exploring Clusters in A Large Trajectory Dataset," presentation at the Annual Meeting of the Association of American Geographers, Las Vegas, Nevada
2009. Yin, L. and Shaw, S-L. "A Case Study of Individual Activities and Interactions in a Hybrid Physical-Virtual Space based on Time Geography Framework," presentation at the Annual Meeting of the Association of American Geographers, Las Vegas, Nevada
2009. Chen, J., Lu, F. and Shaw, S-L. "Trip Planning for Individuals under Space and Time Constraints," presentation at the Annual Meeting of the Association of American Geographers, Las Vegas, Nevada
2008. Shaw, S-L., "Sustainable Transportation: A Geographic Perspective," presentation at the Conference on Energy Resources and Green Economy, Shanghai, China
2008. Shaw, S-L., Yu, H., and Yin, L. "A Space-Time GIS for Time Geography: Requirements and Challenges," presentation at the Annual Meeting of the Association of American Geographers, Boston, Massachusetts
2008. Yu, H., Shaw, S-L., and Bombom, L. "Exploring Patterns in Individual-based Activity Datasets: A Space-Time GIS Approach," presentation at the Annual Meeting of the Association of American Geographers, Boston, Massachusetts
2008. Yin, L., Shaw, S-L., and Yu, H. "A Time-Geographic Approach for Activity Planning and Scheduling with Virtual Activities," presentation at the Annual Meeting of the Association of American Geographers, Boston, Massachusetts
2008. Bombom, L., Yu, H., Shaw, S-L., and Zhao, Y. "Visualizing Large Set of Space-Time Paths in GIS," presentation at the Annual Meeting of the Association of American Geographers, Boston, Massachusetts
2008. Huang, X., Shaw, S-L., Yu, H., and von Reichert, C. "Exploring Migration Patterns in Space and Time: A Case Study of Northern Great Plains," presentation at the Annual Meeting of the Association of American Geographers, Boston, Massachusetts
2008. Shaw, S-L and Yu, H. "A GIS-Based Time-Geographic Framework for Spatiotemporal Analysis of Individual Activities and Interactions," presentation at the Third Specialists

- Meeting on Information and Communications Technology (ICT), Everyday Life and Urban Change, Bristol, United Kingdom
2007. Wong, D. and Shaw, S-L. "Measuring Segregation: Going Beyond the Residential Space and Ecological Approach," presentation at the New Frontiers in the Field of Segregation Measurement and Analysis, Centro Stefano Franscini, Monte Verita Hill, Ascona, Switzerland
2007. Shaw, S-L. "Geographic Information Systems for Transportation: Principles and Applications," keynote presentation given at the First GIS for Transportation (GIS-T) Symposium of China, Wuhan, China
2007. Shaw, S-L. and Yu, H. "An Extended Time-Geographic Framework for Studying Human Activities in Physical and Virtual Spaces," presentation at the Annual Meeting of the Association of American Geographers, San Francisco, California
2007. Yu, H. and Shaw, S-L. "A Temporal GIS Approach for the Exploration of Spatiotemporal Patterns of Acquisition Projects," presentation at the Annual Meeting of the Association of American Geographers, San Francisco, California
2007. Yin, L., Shaw, S-L., Wang, D., Buchanan, N., Gross, L., and Berry, M. "Spatial Control Model for Fire Suppression using Cellular Automata, Genetic Algorithm, and Parallel Computing," presentation at the Annual Meeting of the Association of American Geographers, San Francisco, California
2006. Shaw, S-L. "A Space-Time GIS for Tracking and Analyzing Human Activities and Interactions," presentation at the Annual East Tennessee Regional GIS Conference, Knoxville, Tennessee
2006. Shaw, S-L. "What about 'Time' in Transportation Geography?" panelist of the "Transport Geography: Assessing the Current State of the Subdiscipline" session at the Annual Meeting of the Association of American Geographers, Chicago, Illinois
2006. Shaw, S-L., Lu, F., Chen, J., and Zhou, C. "Network Structures and Competitions of Passenger Airlines in China," presentation at the Annual Meeting of the Association of American Geographers, Chicago, Illinois
2006. Zhao, Y., Shaw, S-L., and English, M. "Application of GIS in Transportation Environmental Justice Assessment," presentation at the Annual Meeting of the Association of American Geographers, Chicago, Illinois
2006. von Reichert, C., Shaw, S-L., Zhao, Y., and Yu, H. "Applications of Spatio-temporal GIS in Migration Research," presentation at the Annual Meeting of the Association of American Geographers, Chicago, Illinois
2005. Yu, H. and Shaw, S-L. "Revisiting Hägerstrand's Time-Geographic Framework for Individual Activities in the Age of Instant Access," presentation at the Research Symposium on Societies and Cities in the Age of Instant Access, Salt Lake City, Utah
2005. Shaw, S-L. "An Extended Time-Geographic Framework for Human Activities and Interactions in Physical and Virtual Spaces," presentation at the Annual Meeting of the Association of American Geographers, Denver, Colorado
2005. von Reichert, C., Shaw, S-L., and Yu, H. "Migration Histories as Time-Space Paths," poster presented at the Annual Meeting of the Association of American Geographers, Denver, Colorado

2004. Shaw, S-L. "Spatial Patterns of Telecommuting in the Atlanta Metropolitan Area," invited paper presentation at the "Information and Communications Technologies (ICT): Mobilizing Persons, Places, and Spaces" Specialist Meeting, Doorn, The Netherlands
2004. Shaw, S-L. "Applications and Prospects of GIS for Transportation," keynote presentation at the GIS for Transportation Workshop, the Chinese Academy of Sciences, Beijing, China
2004. Shaw, S-L. "Changing Spatial Concepts: A GIS Approach of Extending Time Geography for Human Activities in Physical and Virtual Spaces," presentation at the Institute of Geographical Sciences and Natural Resources Research, the Chinese Academy of Sciences, Beijing, China
2004. Shaw, S-L. "Geographic Information Science for Transportation," lecture presented at the Graduate School, the Chinese Academy of Sciences, Beijing, China
2004. Shaw, S-L. "An extended time-geographic framework for physical and virtual activities: GIS design and implementation," invited paper presentation at the Third STELLA Focus Group 2 Research Workshop, Budapest, Hungary
2004. Shaw, S-L. "Space-time redistribution patterns associated with information and communications technologies," presentation at the Annual Meeting of the Association of American Geographers, Philadelphia, Pennsylvania
2003. Shaw, S-L. "ICTs, temporal GIS, and visualization for analysis of space-time dynamics," invited presentation at the Second STELLA Focus Group 2 Research Workshop, New Castle, United Kingdom
2003. Shaw, S-L. and Tharpe, J. "A study of teleworking in the Atlanta metropolitan area," presentation at the Annual Meeting of the Association of American Geographers, New Orleans, Louisiana
2002. Shaw, S-L. and Xin, X. "Temporal GIS for analysis of land use and transportation interactions," presentation at the Annual Meeting of the Association of American Geographers, Los Angeles, California
2002. Xin, X. and Shaw, S-L. "Design and implementation of COM-compliant temporal Transland," presentation at the Annual Meeting of the Association of American Geographers, Los Angeles, California
2002. Shaw, S-L. and Ralston, B. "GIS for transportation education at the University of Tennessee," invited presentation in a panel session at the Annual Meeting of the Association of American Geographers, Los Angeles, California
2002. Ralston, B. and Shaw, S-L. "Transportation geography education at the University of Tennessee," invited presentation in a panel session at the Annual Meeting of the Association of American Geographers, Los Angeles, California
2002. Zhan, B., Ralston, B. and Shaw, S-L. "Dynamic GIS for modeling swarm intelligence and collective behavior," research proposal presented at the University Consortium of Geographic Information Science Summer Assembly, Athens, Georgia
2002. Shaw, S-L. "GIS-T and logistics," "Accessing geographic data for logistics," and "Advanced descriptive analysis for logistics," three invited presentations at the Advanced Workshop on Geographic Information Systems for Logistics, Chinese University of Hong Kong, Satin, Hong Kong

2001. Shaw, S-L and Xin, X. "Spatiotemporal GIS model of transportation and land use interactions," presentation at the Annual Meeting of the Association of American Geographers, New York City, New York
2001. Shaw, S-L. "GIS and society: Applications and implications," presentation at the Annual Meeting of the Chinese-American Academic and Professional Association in Southeastern United States, Atlanta, Georgia
2000. Shaw, S-L. "Potentials of GIS for spatiotemporal activity-based travel analysis," presentation at the Annual Meeting of the Association of American Geographers, Pittsburgh, PA
1999. Shaw, S-L. "Design considerations of integrating transportation planning information system with GIS," presentation at the Annual Meeting of the Association of American Geographers, Honolulu, Hawaii
1999. Shaw, S-L. "An introduction to GIS" and "Making sense of data: Thematic maps," invited presentation at the GIS for Business and Logistics Workshop sponsored by the Center for Executive Education, College of Business Administration, University of Tennessee, Knoxville, Tennessee
1998. Shaw, S-L. and Wang, D. "Handling diversified transportation data sets within GIS," presentation at the Annual Meeting of the Association of American Geographers, Boston, Massachusetts
1998. Shaw, S-L. "Sources of GIS data and software," invited presentation at the GIS for Business and Logistics Workshop sponsored by the Center for Executive Education, College of Business Administration, University of Tennessee, Knoxville, Tennessee
1997. Shaw, S-L. "GIS challenges in urban transportation planning applications," presentation at the GIS AM/FM Asia '97 & GeoInformatics '97 Conference, Taipei, Taiwan
1997. Shaw, S-L. "Challenges to the design of a GIS-T for business curriculum," presentation at the Annual Meeting of the Association of American Geographers, Fort Worth, Texas
1996. Shaw, S-L. and Conaway, M. "Data quality assessment: From photo interpretation to GIS," presentation at the Annual Meeting of the Association of American Geographers, Charlotte, North Carolina
1996. Schultz, R., Shaw, S-L. and Roberts, C. "Establishment of an integrated digital geographic data handling curriculum," presentation at the Annual Meeting of the Association of American Geographers, Charlotte, North Carolina
1995. Shaw, S-L. "GIS and transportation modeling," invited presentation at the Lehman Center for Transportation Research, Florida International University, Miami, Florida
1995. Shaw, S-L. "Research and application issues in transportation GIS," invited presentation at the Advanced GIS Seminar sponsored by the Chinese Natural Science Foundation and Beijing University, Beijing, China
1995. Shaw, S-L. "Issues of integrating multi-agency databases for a regional transportation GIS," presentation at the Annual Meeting of the Association of American Geographers, Chicago, Illinois
1994. Shaw, S-L. and Donnelly, J. "Spatiotemporal Evolution of Airline Networks with Visualization Considerations," presentation at the Annual Meeting of the Association of American Geographers, San Francisco, California

1993. Shaw, S-L. "GIS for Transportation," invited presentation at the Advanced GIS Seminar sponsored by the Chinese Natural Science Foundation and Beijing Normal University, Beijing, China
1993. Shaw, S-L. "The Interplay between Travel Demand Models and GIS," presentation at the Annual Meeting of the Association of American Geographers, Atlanta, Georgia
1993. Shaw, S-L. and Lee, J. "From Spatial Autocorrelation to Network Autocorrelation," presentation at the Annual Meeting of the Association of American Geographers, Atlanta, Georgia
1992. Shaw, S-L. "Where Does Florida Stand in the U.S. Air Passenger Transport Networks?" presentation at the Annual Meeting of the Chinese-American Scholars Association of Florida, Miami Beach, Florida
1992. Shaw, S-L. "Towards a More Realistic Modeling of Airline Hub Networks," presentation at the Annual Meeting of the Association of American Geographers, San Diego, California
1991. Shaw, S-L. and Roberts, C. "Integration of GIS and Remote Sensing Technologies from a Data Accuracy Perspective," presentation at the Annual Meeting of the Southeastern Division of the Association of American Geographers, Asheville, North Carolina
1991. Shaw, S-L. "GIS and Structural Analysis of Transportation Networks," presentation at the Annual Meeting of the Association of American Geographers, Miami, Florida
1990. Shaw, S-L. "A GIS Application of Studying a Commuter Rail System," presentation at the Annual Meeting of the Association of American Geographers, Toronto, Canada
1990. Shaw, S-L. invited panelist at the GIS in Higher Education Workshop, Columbus, Ohio
1989. Shaw, S-L. "Ridership Profile of the Tri-County Commuter Rail System in Southeast Florida," presentation at the Annual Meeting of the Florida Society of Geographers, Cedar Key, Florida
1989. Shaw, S-L. "Geographic Information Systems in Transportation Network Analysis," presentation at the Annual Meeting of the Association of American Geographers, Baltimore, Maryland
1989. Shaw, S-L. invited panelist at the GIS in Higher Education Workshop, Columbus, Ohio
1988. Shaw, S-L. "Post-Behavior Cognitive Adjustments in Urban Travel Mode-Choice Behavior," presentation at the Annual Meeting of the Association of American Geographers, Phoenix, Arizona
1988. Shaw, S-L. and Becker, D. "An Integrated Transportation Management System using GIS," presentation at the Annual Meeting of the Association of American Geographers, Phoenix, Arizona
1987. Shaw, S-L. and Williams, J. "Transportation Developments and Problems in Taiwan," presentation at the Annual Meetings of the Association of American Geographers, Portland, Oregon
1986. Shaw, S-L. "An Attitudinal Model of Urban Travel Choice Behavior with Constraints," presentation at the Annual Meetings of the Association of American Geographers, Minneapolis, Minnesota
1985. Shaw, S-L. "Effects of Deregulation on Air Transport Pattern of Columbus, Ohio," presentation at the Annual Meetings of the Association of American Geographers, Detroit, Michigan

E. Research Reports Submitted to Sponsors

2014. *Final Technical Report for Upgrade the Geographic Information System*, report completed for a project funded by the Federal Highway Administration (FHWA), U.S. Department of Transportation (USDOT).
2011. *Integration of Space-Time GIS with Climate Informatics for Climate Change Research*, report completed for a project funded by Joint Directed Research Development (JDRD), University of Tennessee and Oak Ridge National Laboratory.
2011. *Tennessee One Road: Integration of Road Attributes on A Common Geometry*, a report completed for a research project funded by the Tennessee Department of Transportation.
2006. *Technical Documentation of Tennessee Department of Transportation Environmental Justice GIS Tools*, report completed for a project funded by the Tennessee Department of Transportation.
2006. *User Guide of Tennessee Department of Transportation Environmental Justice GIS Tools*, report completed for a project funded by the Tennessee Department of Transportation.
2004. *Recommended Future Services and Applications of An Automated GPS/Roadway Inventory Data Collection and TRIMS Update Process*, report completed for a project funded by the Tennessee Department of Transportation.
2004. *A Cost-Benefit Study of the Automated GPS/Roadway Inventory Data Collection and TRIMS Update Process*, report completed for a project funded by the Tennessee Department of Transportation.
2003. *Identifying the Equilibrium of Land Use and Transportation Investments using Spatiotemporal Analysis Tools – Temporal GIS Databases Construction and Spatiotemporal Analysis Tools Development*, report completed for a project funded by the Florida Department of Transportation.
2002. *Telework: A Case Study of Atlanta, Georgia*, report completed for a project funded by the UT Scholarly Activity and Research Incentive Funds (SARIF) Summer Graduate Research Assistantship Award.
2001. *Identifying the Equilibrium of Land Use and Transportation Investments using Spatiotemporal Analysis Tools – Temporal GIS Database Design*, report completed for a project funded by the Florida Department of Transportation.
2001. *Identifying the Equilibrium of Land Use and Transportation Investments using Spatiotemporal Analysis Tools – Literature Review*, report completed for a project funded by the Florida Department of Transportation.
2001. *Investigation of Airborne Laser Swath Mapping (ALSM) – ALSM Data Assessment*, report completed for a project funded by the Tennessee Department of Transportation.
2000. *Geographic Information Systems Software Evaluation*, report completed for a project funded by the Tennessee Department of Transportation.
1999. *Activity-based Travel Demand Modeling using Geographic Information Systems*, report completed for a project funded by the University of Tennessee Faculty Research Award.

V. TEACHING

A. University Courses Offered

University of Tennessee, Knoxville (1998-present):

GEOG 411: Introduction to Geographic Information Science
GEOG 415: Quantitative Methods in Geography
GEOG 416: GIS Project Management
GEOG 420: GIS in the Community
GEOG 449: Geography of Transportation
GEOG 491: Foreign Study – Experiencing the Geography of China (Study Abroad)
GEOG 501: Colloquium in Geography
GEOG 509: Special Topic – Space, Place, Time and Human Dynamics
GEOG 517: Geographic Information Management and Processing
GEOG 518: Geographic Information Systems Project Management
GEOG 549: Topics in Geography of Transportation
GEOG 611: Seminar in Geographic Information Science
GEOG 649: Seminar in Geography of Transportation

Florida Atlantic University (1988-1998):

GEOG 3985: Business GeoGraphics
GEOG 4022: Quantitative Methods
GEOG 4141C: Principles of Geographic Information Systems I
GEOG 4142C: Principles of Geographic Information Systems II
GEOG 4184C: Computer Cartography and Map Pattern Analysis
GEOG 4500: Economic Geography
GEOG 4704: Transportation and Spatial Organization
GEOG 6146: Geographic Information Systems
GEOG 6147: Technical Issues and Applications in Geographic Information Systems
GEOG 6930: Advanced GIS Seminar
URP 6714: Urban Transportation Planning and Demand Analysis

B. Dissertation/Thesis/Paper Awards/Honors Received by Advisees

- 2010 Ling Yin, *Finalist, Student Paper Competition*, awarded by the Geographic Information Science and Systems Specialty Group, The Association of American Geographers.
- 2006 Hongbo Yu, *Best Ph.D. Dissertation Award*, awarded by the Transportation Geography Specialty Group, The Association of American Geographers
- 2005 Hongbo Yu, *First Place, Student Paper Competition*, awarded by the Geographic Information Science and Systems Specialty Group, The Association of American Geographers.
- 2004 Hongbo Yu, *Cartography and Geographic Information Science Award*, awarded by the University Consortium for Geographic Information Science (UCGIS)
- 2004 Jessica Tharpe, *Best Master's Thesis Award*, awarded by Transportation Geography Specialty Group, The Association of American Geographers.
- 2003 Xiaohong Xin, *Best Ph.D. Dissertation Award*, awarded by Transportation Geography Specialty Group, The Association of American Geographers.

C. Thesis/Dissertation Committees

University of Tennessee, Knoxville (1998-present):

- * Major advisor of 10 doctoral committees:
 - Department of Geography: 9 completed (Xiaohong Xin, Hongbo Yu, Robert Stewart, Ling Yin, Ziliang Zhao, Yang Xu, Jiaoli Chen, Gengen He, Kevin Krivacsy), 2 in progress (Jimmy Feng, Yung-Ming Tsai)
- * Member of 18 doctoral committees:
 - Department of Geography: 10 completed, 1 in progress
 - Department of Biosystems Engineering and Environmental Science: 1 completed
 - Department of Civil and Environmental Engineering: 2 completed
 - Department of Computer Science: 3 completed
 - Department of Sociology: 1 completed, 1 in progress
- * Major advisor of 15 master's committees:
 - Department of Geography: 14 completed (Moinak Chatterjee, Jessica Tharpe, David Ralston, Steve Ahrens, Xumei Liu, Brad Wilson, Xia Huang, Yitu Xu, Ziliang Zhao, Amy Davis, Sumang Liu, Austin Rutledge, Yuan Liu, Yicong Zhong), 1 in progress (Hunter Sinclair)
- * Member of 25 master's committees:
 - Department of Geography: 18 completed
 - Department of Civil and Environmental Engineering: 2 completed
 - Department of Computer Science: 2 completed
 - Department of Ecology and Evolutionary Biology: 1 completed
 - Department of Forestry, Wildlife and Fisheries: 2 completed
- * External Member of 6 Ph.D. dissertation committees:
 - Department of Geographical and Sustainability Sciences, University of Iowa, Iowa City, Iowa, USA: 1 completed (Junchuan Fan, Dissertation Committee Member)
 - Department of Geography, University of Georgia, Athens, Georgia, USA: 1 completed (Xuebin Wei, Dissertation Committee Member)
 - Department of Geography, University of California, Santa Barbara, California, USA: 1 completed (Alan Glennon, Dissertation Committee Member)
 - Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, Beijing, China: 1 completed (Jie Chen, Co-Advisor)
 - Department of Geography, University of Ottawa, Ontario, Canada: 1 completed (Nairne Cameron, External Committee Member)
 - Department of Geography, University of Calgary, Calgary, Canada: 1 completed (Dae-Won Kwon, External Committee Member)
- * External Examiner of 1 master's thesis research:
 - Department of Geography, The Chinese University of Hong Kong, Satin, Hong Kong: 1 completed (Hongbo Yu, External Committee Member)

Florida Atlantic University (1988-1998):

- * Major advisor of 11 master's thesis committees:
 - Department of Geography: 11 completed
- * Member of 10 master's thesis committees:

- Department of Geography: 4 completed
- Department of Economics: 6 completed

D. Workshops and Training Courses Taught

2013. “Silk-Net GIScience Summer Institute” in Suzhou, China, funded by the State Key Laboratory of Resources and Environmental Information System, the Chinese Academy of Sciences.
2010. “Advanced GIScience Research Workshop” at the Academia Sinica, funded by the Academia Sinica, Taipei, Taiwan.
2007. “Computational Science for Natural Resource Managers Workshop” at The University of Tennessee, Knoxville, Tennessee, funded by the U.S. National Science Foundation and managed by The University of Tennessee, Knoxville.
2006. “Computational Science for Natural Resource Managers Workshop” at The University of Tennessee, Knoxville, Tennessee, funded by the U.S. National Science Foundation and managed by The University of Tennessee, Knoxville.
2005. “Spatial Perspectives on Analysis for Curriculum Enhancement (SPACE) Workshop – GIS and Spatial Modeling for the Undergraduate Social Science Curriculum” at The Ohio State University, Columbus, Ohio, funded by the U.S. National Science Foundation and managed by University of California, Santa Barbara, The Ohio State University, and the University Consortium for Geographic Information Science.
2005. “GIS for Transportation Workshop” at Hong Kong, June 13, 2005, funded by the Hong Kong Transport Department.
2005. “GIS for Transportation Workshop” at Hong Kong, March 23, 2005, funded by the Hong Kong Transport Department.
2004. “Spatial Perspectives on Analysis for Curriculum Enhancement (SPACE) Workshop – GIS and Spatial Modeling for the Undergraduate Social Science Curriculum” at The Ohio State University, Columbus, Ohio, funded by the U.S. National Science Foundation and managed by University of California, Santa Barbara, The Ohio State University, and the University Consortium for Geographic Information Science.
2002. “Advanced GIS for Transportation and Logistics Workshop” at Hong Kong, sponsored by the Chinese University of Hong Kong, Satin, Hong Kong.
2001. “GIS Workshop” at Knoxville, Tennessee, sponsored by the Municipal Technical Advisory Service, University of Tennessee.
1999. “GIS for Business and Logistics Workshop” at Knoxville, Tennessee, sponsored by the Center for Executive Education, College of Business Administration, University of Tennessee.
1998. “GIS for Business and Logistics Workshop” at Knoxville, Tennessee, sponsored by the Center for Executive Education, College of Business Administration, University of Tennessee.
1996. “GIS and Location-Allocation Analysis Training Course” at West Palm Beach, Florida, sponsored by the South Florida Water Management District.
1996. “Introduction to GIS Workshop” at West Palm Beach, Florida, sponsored by the Palm Beach County Government, Florida.

1996. "Introduction to ArcView Training Course" at Boca Raton, Florida, sponsored by the Florida Atlantic University's Continuing Education and Open University.
1993. "Introduction to GIS Workshop" at Fort Lauderdale, Florida, sponsored by the Broward County Government, Florida.

VI. SERVICE

A. Service to the Profession

Reviewer of manuscripts/grant proposals/standards for the following journals and agencies:

ACM Computing Surveys
Annals of the Association of American Geographers
Annals of GIS
Applied Geography
Cartography and Geographic Information Systems
Cities
Computers, Environment and Urban Systems
Economic Geography
Environment and Planning A
Environment and Planning B
Geografiska Annaler B
Geographical Analysis
Geographical Review
GeoInformatica
Habitat International
IEEE Transactions on Systems, Man and Cybernetics: Systems
IET Intelligent Transport Systems
International Journal of Control, Automation, and Systems
International Journal of Digital Earth
International Journal of Geographic Information Science
International Journal of Sustainable Transportation
ISPRS International Journal of Geo-Information
Journal of Air Transport Management
Journal of Geographic Information System
Journal of Geographical Systems
Journal of Location Based Services
Journal of Spatial Information Science
Journal of Transport Geography
Journal of Urban Technology
Networks and Spatial Economics
Papers in Regional Science
Pervasive and Mobile Computing
PLOS ONE
Proceedings of the National Academy of Sciences
Science Bulletin

Social Networks
Southeastern Geographer
Spatial Cognition and Computation
The Professional Geographer
Tijdschrift voor Economische en Sociale Geografie
Time and Society
Tourism Management
Transactions in GIS
Transactions on Intelligent Systems and Technologies
Transportation
Transportation Research A
Transportation Research E
Transportmetrica
Travel Behaviour and Society
Urban Affairs Review
Urban Geography
Urban Studies

U.S. National Science Foundation
U.S. Transportation Research Board
U.S. Department of Transportation
Hong Kong Research Grants Council
Netherlands Organization for Scientific Research (NWO)
Social Sciences and Humanities Research Council of Canada (SSHRC)
Natural Science Foundation of China
Academia Sinica of Taiwan
Ministry of Science and Technology of Taiwan

Guest editor of the following special issues in academic journals:

- Special issue on Prospects and Challenges of Integrating Environmental and Human Observations for Smart Cities, *Environment and Planning B: Urban Analytics and City Science*, started in 2019 and published in 2021
- Special issue on Geographic Information Science and Society: Opportunities and challenges towards social sustainability, *Sustainability*, started in 2019 and published in 2020
- Special issue on Human Dynamics Research in the Age of Smart and Intelligent Systems, *ISPRS International Journal of Geo-Information*, started in 2019 and published in 2020
- Special issue on The Geospatial Humanities: Transdisciplinary Opportunities, *International Journal of Humanities and Arts Computing*, started in 2019 and published in 2020
- Special issue on Human Dynamics in a Changing World, *Transactions in GIS*, started in 2017 and published in 2018
- Special issue on Human Dynamics in Smart and Connected Communities, *Computers, Environment and Urban Systems*, started in 2017 and published in 2018

- Special issue on Intelligent Spatial Decision Support, *ISPRS International Journal of Geo-Information*, started in 2015 and published in 2016
- Special issue on Human Dynamics in the Mobile and Big Data Era, *International Journal of Geographical Information Science*, started in 2015 and published in 2016
- Special issue on Time Geography, *Journal of Transport Geography*, started in 2011 and published in 2012
- Special issue on Geographic Information Systems for Transportation, *Journal of Transport Geography*, started in 2010 and published in 2011
- Special issue on Geographic Information Systems and Intelligent Transportation Systems, *GeoInformatica*, started in 1999 and published in 2000

President-Elect, University Consortium for Geographic Information Science (UCGIS), 2021-present

Lead Editor (with Prof. Daniel Sui at University of Arkansas as a Co-Editor), *Human Dynamics in Smart Cities* book series published by Springer International Publishing AG, 2017-present

Area Editor, Oxford Bibliographies in Geography, Oxford University Press, 2019-present

Associate Editor, *Travel Behaviour and Society*, 2013-present

Editorial Board Member, *Journal of Transport Geography*, 2000-present

Editorial Board Member, *Journal of Geographic Information System*, 2010-present

Editorial Board Member, *International Journal of Geographical Information Science*, 2014-present

Editorial Board Member, *Geographical Research* (Chinese), 2015-present

Editorial Board Member, *Tropical Geography* (Chinese), 2018-present

Editorial Board Member, *ISPRS International Journal of Geo-Information*, 2019-present

Advisory Committee Member, *Computational Urban Science*, 2020-present

Editorial Board Member, *International Journal of Urban Informatics*, 2021-present

Editorial Board Member, *Southeastern Geographer*, 2004-2012

Member, Humanities and Social Sciences Panel, Hong Kong Research Grants Council (RGC), 2019-present

Advisory Editor, Theoretical Geography Debates, VVoIP_Physics_Debates, 2019-present

Co-Chair, WG II/7: Intelligent Spatial Decision Support, International Society for Photogrammetry and Remote Sensing (ISPRS), 2014-present

Chair, Research Committee, University Consortium for Geographic Information Science (UCGIS), U.S.A., 2017-2020

Chair of Academic Program Review Team, Department of Geography and Environmental Studies, Texas State University, San Marcos, Texas, December 2020 – April 2021 (virtual site visit)

Member of Academic Review Team, Department of Geography, National Taiwan University, Taipei, Taiwan, April 29-30, 2021

Member, Organizing Committee, University Consortium for Geographic Information Science (UCGIS) Symposium 2022, Syracuse, New York, June 7-9, 2022

Lead Organizer, The 8th Symposium on Human Dynamics Research, 2022 American Association of Geographers (AAG) Meeting, New York, New York, February 25 – March 1, 2022

Member, Program Committee, International Symposium on Geospatial Approaches to Combatting Covid-19 associated with the 30th International Cartographic Conference, Florence, Italy, December 13-14, 2021

Member, Program Review Committee, Pacific Neighborhood Consortium (PNC) 2021 Annual Conference and Joint Meetings, Taipei, Taiwan, September 28-30, 2021.

Member, Program Committee, GIScience 2021, Poznań, Poland, September 27-30, 2021

Member, Program Committee, The Tenth International Conference on Advances in Vehicular Systems, Technologies and Applications (VEHICULAR 2021), Nice, France, July 18-22, 2021

Member, Program Committee, The Thirteenth International Conference on Advanced Geographic Information Systems, Applications, and Services (GEOProcessing 2021), Nice, France, July 18-22, 2021

Member, Program Committee, The 7th International Conference on Vehicle Technology and Intelligent Transport Systems (VEHITS 2021), Prague, Czech Republic, April 28-30, 2021

Lead Organizer, The 7th Symposium on Human Dynamics, 2021 American Association of Geographers (AAG) Meeting, Denver, Colorado, April 7-11, 2021

Chair and Co-organizer, GIScience and COVID-19 Panel Session, 2020 University Consortium for Geographic Information Science (UCGIS) Symposium (online), June 1, 2020

Chair and Organizer, Research Committee Meeting, 2020 University Consortium for Geographic Information Science (UCGIS) Symposium (online), June 1, 2020

Co-organizer, UCGIS Research Committee Initiatives Session: Cyberinfrastructure-Decision Support Systems, GeoAI, and Convergence Research, 2020 University Consortium for Geographic Information Science (UCGIS) Symposium (online), June 1, 2020

Member, Program Committee, The 11th International Conference on Geographic Information Science (GIScience 2020), Poznań, Poland, September 15-18, 2020

Member, Technical Program Committee, The Fourteenth International Conference on Mobile Ubiquitous Computing, Systems, Services and Technologies (UBICOMM 2020), Nice, France, July 26-30, 2020

Member, Program Committee, The 23rd International Research Symposium on Computer-based Cartography (AutoCarto 2020), Redlands, California, USA, May 20-22, 2020

Member, Program Committee, The 6th International Conference on Vehicle Technology and Intelligent Transport Systems (VEHITS 2020), Prague, Czech Republic, May 2-4, 2020

Member, Organizing Committee, The Third GeoAI Symposium, 2020 American Association of Geographers (AAG) Meeting, Denver, Colorado, April 6-10, 2020 (changed to online format and many sessions were cancelled due the COVID-19 pandemic)

Lead Organizer, Symposium on Human Dynamics, 2020 American Association of Geographers (AAG) Meeting, Denver, Colorado, April 6-10, 2020 (changed to online format and many sessions were cancelled due to the COVID-19 pandemic)

Member, Program Committee, The Twelfth International Conference on Advanced Geographic Information Systems, Applications, and Services (GEOProcessing 2020), Barcelona, Spain, March 22-26, 2020

Member, Academic Advisory Council, Research Center for Humanities and Social Sciences, Academia Sinica, Taipei, Taiwan, 2012-2019

Program Reviewer, Department of Land Surveying and Geo-Informatics, Hong Kong Polytechnic University, Hong Kong, October 7-11, 2019

Member, Technical Program Committee, The Thirteenth International Conference on Mobile Ubiquitous Computing, Systems, Services and Technologies (UBICOMM 2019), Porto, Portugal, September 22-26, 2019

Member, Program Committee, International Symposium on Location-Based Big Data 2019, Tokyo, Japan, July 15, 2019

Member, Program Committee, 2019 University Consortium for Geographic Information Science (UCGIS) Symposium, Washington, DC, June 11-13, 2019

Member, International Program Committee, The Fifth International Conference on Vehicle Technology and Intelligent Transport Systems (VEHITS 2019), Heraklion, Crete, Greece, May 3-5, 2019

Lead Organizer, Program Committee, Symposium on Human Dynamics Research in the Age of Smart/Intelligent Systems at the Annual Meeting of the American Association of Geographers, Washington, DC, April 3-7, 2019

Member, Program Committee, Symposium on Frontiers in Geospatial Data Science at the Annual Meeting of the American Association of Geographers, Washington, DC, April 3-7, 2019

Expert on Transportation Data, 2018 Report Card on the U.S. National Spatial Data Infrastructure (NSDI), Coalition of Geospatial Organizations (COGO), 2017-2018

Member, Technical Program Committee, The Twelfth International Conference on Mobile Ubiquitous Computing, Systems, Services and Technologies (UBICOMM 2018), Athens, Greece, November 18-22, 2018

Co-Chair, Program Committee, Pacific Neighborhood Consortium (PNC) 2018 Annual Conference and Joint Meetings, San Francisco, California, October 27-30, 2018

Member, Program Committee, The Tenth International Conference on Geographic Information Science (GIScience 2018), Melbourne, Australia, August 28-31, 2018

Member, Program Committee, The Tenth International Conference on Geographic Information Science (GIScience 2018), Workshop on Analysis of Movement Data, Melbourne, Australia, August 28, 2018

Member, Academic Program Review Committee, Research Center for Humanities and Social Sciences, Academia Sinica, Taipei, Taiwan, July 9, 2018

Member, International Steering Committee and Program Committee, The Twenty-Sixth International Conference on Geoinformatics (CPGIS 2018), Kunming, China, June 28-30, 2018

Lead Organizer, Symposium on New Horizons in Human Dynamics Research at the Annual Meeting of the Association of American Geographers, New Orleans, Louisiana, April 10-14, 2018

Co-Organizer, Time Geography Sessions at the Annual Meeting of the Association of American Geographers, New Orleans, Louisiana, April 10-14, 2018

Member, Organizing Committee, The Fifth Symposium on Spatiotemporal Thinking, Computing and Applications at the Annual Meeting of the Association of American Geographers, New Orleans, Louisiana, April 10-14, 2018

Member, Organizing Committee, Symposium on CyberGIS and Spatial Data Science at the Annual Meeting of the Association of American Geographers, New Orleans, Louisiana, April 10-14, 2018

Member, Program Committee, GEOProcessing 2018 - The Tenth International Conference on Advanced Geographic Information Systems, Applications, and Services, Rome, Italy, March 25-29, 2018

Member, Technical Program Committee, The Fourth International Conference on Vehicle Technology and Intelligent Transport Systems (VEHITS 2018), Funchal, Portugal, March 16-18, 2018

Member, Scientific Committee, The First International Conference on Urban Informatics (ICUI 2017), Hong Kong, November 13-15, 2017

Member, Technical Program Committee, The Eleventh International Conference on Mobile Ubiquitous Computing, Systems, Services and Technologies (UBICOMM 2017), Barcelona, Spain, November 12-16, 2017

Member, Program Committee, The First ACM SIGSPATIAL Workshop on High-Precision Maps and Intelligent Applications for Autonomous Vehicles (AutonomousGIS 2017), part of the Twenty-Fifth ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM SIGSPATIAL 2017), Redondo Beach, California, November 7, 2017

Member, International Steering Committee and Program Committee, The Twenty-Fifth International Conference on Geoinformatics (CPGIS 2017), Buffalo, New York, August 2-4, 2017

Member, Program Committee, International Symposium on Location-based Social Media Data and Tracking Data, a Symposium of the 28th International Cartographic Conference, Washington DC, USA, July 1-2, 2017

Member, Technical Program Committee, The Third International Conference on Vehicle Technology and Intelligent Transport Systems (VEHITS 2017), Porto, Portugal, April 22-24, 2017

Lead Organizer, Symposium on Human Dynamics in Smart and Connected Communities consisting of 41 paper/panel sessions at 2017 AAG Annual Meeting, Boston, Massachusetts, April 5-9, 2017

Member, International Scientific Committee, The Tenth Asian GIS Conference, Hong Kong, January 5-7, 2017

Member, Academic Program Review Committee, Research Center for Humanities and Social Sciences, Academia Sinica, Taipei, Taiwan, November 2-3, 2016

Member, Technical Program Committee, The Tenth International Conference on Mobile Ubiquitous Computing, Systems, Services and Technologies (UBICOMM 2016), Venice, Italy, October 9-13, 2016

Member, Program Committee, The Ninth International Conference on Geographic Information Science (GIScience 2016), Montreal, Canada, September 27-30, 2016

Member, Program Committee, GeoSocial: Social Media and GIScience Workshop, The Ninth International Conference on Geographic Information Science (GIScience 2016), Montreal, Canada, September 27, 2016

Member, Scientific Committee, The Second International Time-Geography Days, Linköping University, Linköping, Sweden, September 21-23, 2016

Member, Steering Committee and Program Committee, The Second International Conference on Location-Based Social Media Data, Shanghai, China, August 26-28, 2016

Member, Program Committee, The Third International Conference on CyberGIS and Geospatial Data Science (CyberGIS'16), Urbana, Illinois, July 26-28, 2016

Member, Program Committee, Pacific Asia Conference on Information Systems (PACIS) 2016, Track of Context-Aware Geographic Information Systems, Chiayi, Taiwan, June 27–July 1, 2016

Chair, Organizing Committee, Symposium on Human Dynamics Research consisting of 25 paper/panel sessions at 2016 AAG Annual Meeting, San Francisco, California, March 29–April 2, 2016

Chair, National Visiting Committee, NSF-CDI: Mapping Cyberspace project (CNS-#1028177, PI: Ming-Hsiang Tsou, San Diego State University), 2010-2015

Member, Technical Program Committee, The Ninth International Conference on Mobile Ubiquitous Computing, Systems, Services and Technologies (UBICOMM 2015), Nice, France, July 19-24, 2015

Member, Programming Committee, International Workshop on Spatiotemporal Computing, Fairfax, Virginia, July 13-15, 2015

Member, Program Committee, Geoinformatics 2015 Conference, Wuhan, China, June 19-21, 2015

Member, Scientific Advisory Board, GeoComputation 2015 Conference, Dallas, Texas, May 20-23, 2015

Co-Organizer, three Time Geography paper sessions, five Human Dynamics in the Mobile Age paper sessions, and two Spatiotemporal Big Data Analytics panel sessions at the Annual Meeting of the Association of American Geographers, Chicago, Illinois, April 21-25, 2015

Member, Organizing Committee, The Second Symposium on Spatiotemporal Thinking, Computing and Applications at the Annual Meeting of the Association of American Geographers, Chicago, Illinois, April 21-25, 2015

Member, Organizing Committee, Symposium on CyberGIS for Fostering New Frontiers of Geographic Research and Education at the Annual Meeting of the Association of American Geographers, Chicago, Illinois, April 21-25, 2015

Member, Program Committee, International Conference on Location-Based Social Media Data, Athens, Georgia, March 13-14, 2015

Member, Conference Scientific Committee, ISPRS TC II Joint International Conference on Geospatial Theory, Processing, Modelling and Applications, together with IGU Commission on Geographical Information Science and Commission on Modelling Geographical Systems, Toronto, Canada, October 6-8, 2014

Member, Program Committee, The Eighth International Conference on Geographic Information Science (GIScience 2014), Vienna, Austria, September 23-26, 2014

Member, Technical Program Committee, The Eighth International Conference on Mobile Ubiquitous Computing, Systems, Services and Technologies (UBICOMM 2014), Rome, Italy, August 24-28, 2014

Member, Academic Program Review Committee, Research Center for Humanities and Social Sciences, Academia Sinica, Taipei, Taiwan, July 7-9, 2014

Co-Chair, International Workshop of Geographical Information Science 2014 (IWGIS 2014), Beijing, China, June 21-22, 2014

Chair and Co-Organizer, GIScience Forum on Emerging GIScience Research Themes and Challenges, International Workshop of Geographical Information Science 2014 (IWGIS 2014), Beijing, China, June 22, 2014

Member, Conference Scientific Committee, International Workshop on Spatial Analysis and Data Mining (SADM 2014), together with WG II/3 Spatial Analysis and Data Mining, Wuhan, China, May 16-18, 2014

Member, Scientific Committee, International Time-Geography Days, Linköping University, Linköping, Sweden, May 14-16, 2014

Member, Membership Committee, Association of American Geographers, 2009-2013

Member, Scientific Committee, International Workshop on Global Spatial Grids and Cloud-based Services, Xuzhou, China, November 11-12, 2013

Member, Program Committee, ICA Workshop on Street Networks and Transport, Dresden, Germany, August 23-24, 2013

Member, Program Committee, Geoinformatics 2013 Conference, Kaifeng, Henan, China, June 20-22, 2013

Delegate, University Consortium for Geographic Information Science, 2002-2012

Member, Program Committee, GIScience 2012 Conference, Columbus, Ohio, September 18-21, 2012

Member, Program Committee, Time Geography Workshop, GIScience 2012 Conference, Columbus, Ohio, September 18-21, 2012

Member, Program Committee, Role of Volunteered Geographic Information in Advancing Science: Quality and Credibility Workshop, GIScience 2012 Conference, Columbus, Ohio, September 18-21, 2012

Member, Program Committee, Geoinformatics 2012 Conference, Chinese University of Hong Kong, Hong Kong, China, June 15-17, 2012

Co-Organizer, Trajectory Data Mining and Analysis Workshop, the 13th ACM International Conference on Ubiquitous Computing, Beijing, China, September 17-21, 2011

Member, Program Committee, Geoinformatics 2011 Conference, East China Normal University, Shanghai, China, June 24-26, 2011

Member, Technical Program Committee, International Workshop on Role of Volunteered Geographic Information in Advancing Science, Zurich, Switzerland, September 14, 2010

Member, Program Committee, Geoinformatics 2010 Conference, Peking University, Beijing, China, June 16-18, 2010

Member, Program Committee, International Workshop on GIS for Transportation, Wuhan University, Wuhan, China, December 4-6, 2009

Panel Review Member, National Science Foundation (NSF) Cyber-enabled Discovery and Innovation (CDI) Program Review Panel, Arlington, Virginia, February 23-24, 2009

Member, Technical Committee, Geoinformatics 2008 Conference, Dr. Sun Yat-Sen University, Guangzhou, China, June 28-29, 2008

Member, International Program Committee, First International Conference on Grid Computing, Universität Leipzig, Leipzig, Germany, September 24-28, 2007

Member, Standards for Geographic Data Committee, Association of American Geographers, 2006-2007

Member, Sustainable Transportation Analysis and Research (STAR) Network, a project funded by National Science Foundation (NSF), 2002-2005

Reviewer, Core Data Content Standards for Transportation, U.S. Department of Transportation, 2002-2005

Chair, Transportation Geography Specialty Group, Association of American Geographers, 2000-2002

Co-Organizer, Advanced Workshop on Geographic Information Systems for Logistics, The Chinese University of Hong Kong, Satin, Hong Kong, 2002

Member, Program Committee, Annual Meeting of the Southeastern Division of the Association of American Geographers (SEDAAG), 2000

Member, Organizing Committee, International Workshop on Geographic Information Systems for Transportation (GIS-T) and Intelligent Transportation Systems (ITS), Hong Kong, 1999

Member, Planning Committee, Second National GIS in Transit Conference, Tampa, Florida, 1998

Academic Liaison, ESRI GIS for Transportation Planning Users Group, 1996-1998

Editorial Board Member, *Journal of Geographic Information Sciences*, 1995-1998

Secretary/Treasurer, GIS Specialty Group, Association of American Geographers, 1994-1996

Member, Board of Directors, Transportation Geography Specialty Group, Association of American Geographers, 1992-1997

Organizer, GIS for Transportation Workshop, Association of Chinese Professionals in Geographic Information Systems, 1996

President, Chinese-American Scholars Association of Florida, 1995-1996

Grant Proposal Review Panelist, U.S. National Science Foundation (NSF), Arlington, Virginia, 1995

Vice President, Chinese-American Scholars Association of Florida, 1994-1995

Member, Student Paper Competition Committee, GIS Specialty Group, Association of American Geographers, 1993 & 1994

Treasurer, Association of Chinese Professionals in Geographic Information Systems, 1993-1994

Co-Chair, Program Committee, Annual Conference of the Association of Chinese Professionals in Geographic Information Systems, West Palm Beach, Florida, 1993

Member, Board of Directors, Association of Chinese Professionals in Geographic Information Systems, 1992-1993

Member, Local Arrangement Committee, Annual Meeting of the Florida Society of Geographers, Boca Raton, Florida, 1992

Member, Local Arrangement Committee, Annual Meeting of the Association of American Geographers, Miami, Florida, 1991

External Reviewer, Geographic Information Systems Faculty Search Committee, Department of Geography, University of Miami, Florida, 1991

Advisor, National Geographic Information Systems Visiting Group from Taiwan, Republic of China, 1990

Member, Local Coordinating Committee, GIS/LIS Annual Conference, Orlando, Florida, 1989

B. Service to the University

Member, Program Committee, Interdisciplinary Graduate Minor in Computational Science, University of Tennessee, 2021-present

Member, Social Sciences Curriculum Committee, College of Arts and Sciences, University of Tennessee, 2020-present

Member, Global Studies Program, College of Arts and Sciences, University of Tennessee, 2018-present

Member, Asian Studies Program, College of Arts and Sciences, University of Tennessee, 2005-present

Chair, Curriculum Committee, Department of Geography, University of Tennessee, 2020-present

Chair, Teaching Review Committee, Department of Geography, University of Tennessee, 2021-present

Member, Graduate Program/Admission Committee, Department of Geography, University of Tennessee, 2021-present

Member, Awards and Honors Committee, Department of Geography, University of Tennessee, 2021-present

Chair, Two Periodic Post-Tenure Performance Review Committees, University of Tennessee, 2019-2020

Member, Periodic Post-Tenure Performance Review Committee, University of Tennessee, 2019-2020

Member, Research Awards Review Committee, College of Arts and Sciences, University of Tennessee, 2019-2020

Member, GIS Planning/Revamping, Department of Geography, University of Tennessee, 2018-2019

Chair, Faculty Search Committee for an Assistant Professor in Geographic Information Science, Department of Geography, University of Tennessee, 2018-2019

Campus Security Authority, University of Tennessee, 2016-2019

Advisor, Project Pengyou – UT Chapter, University of Tennessee, 2015-2019

Interim Associate Provost and Director of the Center for International Education, University of Tennessee, 2017-2018

Advisor, Chinese Students and Scholars Association, University of Tennessee, 2013-2018

Director, Confucius Institute, University of Tennessee, 2012-2018

Member, UTK Delegation Team to China led by Interim Provost and Senior Vice Chancellor John Zomchick to attend 2018 annual meeting of Confucius Institute’s Board of Advisors at Southeast University in Nanjing, China and to visit other universities in China for international collaboration and student recruitment, March 24 - April 2, 2018

Faculty Mentor to Dr. Hyun Kim, Department of Geography, University of Tennessee, 2011-2017

Member, Research and Creative Achievement Awards Committee, College of Arts and Sciences, University of Tennessee, 2016

Judge, International Photo Exhibit Contest, International House, Center for International Education, University of Tennessee, 2016

Research Mentor to Dr. Lisa Lindley for a National Institutes of Health (NIH)/National Institute of Nursing Research (NINR) K01-Mentored Research Scientist Development Award, College of Nursing, University of Tennessee, 2013-2016

Member, UTK Delegation Team led by Provost and Senior Vice Chancellor Susan Martin to attend 2016 annual meeting of Confucius Institute’s Board of Advisors at Southeast

University in Nanjing, China and to visit other universities in China and Taiwan for international collaboration and student recruitment, July 6-15, 2016

Member, UTK Delegation Team led by Associate Provost Pia Wood and Dean of Libraries Steve Smith to visit universities and recruit students in China, March 20-25, 2016

Member, Spatial Biology Faculty Search Committee, Department of Ecology and Evolutionary Biology/National Institute for Mathematical and Biological Synthesis (NIMBioS), University of Tennessee, 2015-2016

Reviewer, Mid-cycle Program Review, Department of Business Analytics and Statistics, Haslam College of Business, University of Tennessee, November 16-17, 2015

Member, UTK Delegation Team led by Provost and Senior Vice Chancellor Susan Martin to visit universities in China for international collaboration and student recruitment, March 17-21, 2015

Member, Graduate Program Committee, Department of Geography, University of Tennessee, 2011-2015

Member, Space Committee, Department of Geography, University of Tennessee, 2014-2015

Member, Development and Alumni Relations Committee, Department of Geography, University of Tennessee, 2014-2015

Member, Delegation Team to China and Hong Kong led by Senior Vice Chancellor and Provost Susan Martin, University of Tennessee, October 25-30, 2014

Member, Delegation Team to China led by Chancellor Jimmy Cheek, University of Tennessee, October 20-31, 2013

Presentation to the Dean's Advisory Board, invited by the Dean of the College of Arts and Sciences, University of Tennessee, October 4, 2013

Member, Dean's Advisory Council, College of Arts and Sciences, University of Tennessee, 2010-2013 (excluding Fall 2011 when I was on a faculty development leave)

Faculty Mentor to Dr. Jiang Jiang, Postdoctoral Researcher, National Institute for Mathematical and Biological Synthesis (NIMBioS), University of Tennessee, Knoxville, 2013-2014 (NSF-funded Grant)

Chair, Visiting Speakers Committee, Department of Geography, University of Tennessee, 2012-2013

Member, Executive Committee, Department of Geography, University of Tennessee, 2010-2013

Member, Graduate Admissions Committee, Department of Geography, University of Tennessee, 2006-2013

Member, Graduate Examinations Committee, Department of Geography, University of Tennessee, 2011-2013

Member, Development and Alumni Relations Committee, Department of Geography, University of Tennessee, 2011-2013

Member, Fellowships and Scholarships Committee, Department of Geography, University of Tennessee, 2008-2013

Member, McCroskey Fund Committee, Department of Geography, University of Tennessee, 2007-2013

Member, Class Scheduling Committee, Department of Geography, University of Tennessee, 2007-2013

Head, Department of Geography, University of Tennessee, 2007-2010

Chair, Executive Committee, Department of Geography, University of Tennessee, 2007-2010

Chair, Transportation/Spatial Analysis Faculty Search Committee, Department of Geography, University of Tennessee, 2010-2011

Chair, Graduate Program Committee, Department of Geography, University of Tennessee, 2011 Spring.

Chair, Ad Hoc Cumulative Performance Review Committee, College of Arts and Sciences, University of Tennessee, 2008-2011

Member, College Budget Committee, College of Arts and Sciences, University of Tennessee, 2007-2008

Member, Ad Hoc Graduate School Committee on Joint Degrees, Graduate School, University of Tennessee, 2007-08

Co-Coordinator, Computer Laboratory, Department of Geography, University of Tennessee, 1999-2006

Member, Executive Committee, Department of Geography, University of Tennessee, 2006-2007

Member, Graduate Program Committee, Department of Geography, University of Tennessee, 2006-2007

Chair, Graduate Program Committee, Department of Geography, University of Tennessee, 2000-2006 & Spring 2011

Chair, Geographic Information Science/Physical Geography Faculty Search Committee, Department of Geography, University of Tennessee, 2005-2006

Member, Urban/Economic Geography Faculty Search Committee, Department of Geography, University of Tennessee, 2005-2006

Associate Head, Department of Geography, University of Tennessee, 2001-2004

Webmaster, Department of Geography, University of Tennessee, 1998-2003

Chair, Geographic Information Science/Physical Geography Faculty Search Committee, Department of Geography, University of Tennessee, 2002-2003

Member, Executive Committee, Department of Geography, University of Tennessee, 1999-2002

Member, Population Geography Faculty Search Committee, Department of Geography, University of Tennessee, 2001-2002

Coordinator, VolNet Upgrade of the Burchfiel Geography Building, University of Tennessee, 2000-2001

Member, Semester Banking Committee, Department of Geography, University of Tennessee, 1999-2001

Member, Space Committee, Department of Geography, University of Tennessee, 1999-2001

Undergraduate Advisor, Department of Geography, University of Tennessee, 2000-2001

Assistant Coordinator, Relocation to Burchfiel Geography Building, Department of Geography, University of Tennessee, 2000

Member, Planning/Urban Studies/Social Science Curricula Committee, College of Arts and Sciences, University of Tennessee, 1999-2000

Member, Graduate Program Committee, Department of Geography, University of Tennessee, 1998-2000

Director, Geographic Information and Analysis Laboratory, Department of Geography, Florida Atlantic University, 1993-1998

Member, University Distance Learning Council, Florida Atlantic University, 1995-1998

Member, College By-Laws Committee, Florida Atlantic University, 1995-1996

Member, Graduate Studies Committee, Department of Geography, Florida Atlantic University, 1992-1996
Member, Teaching Incentive Program Award Committee, College of Social Science, Florida Atlantic University, 1994-1995
Member, Personnel Committee, College of Social Science, Florida Atlantic University, 1994-1995
Member, University Distance Learning Task Force, Florida Atlantic University, 1994-1995
Member, Salary Equity Appeals Committee, Florida Atlantic University, 1992-1994
Member, University Senate, Florida Atlantic University, 1991-1994
Advisor, Chinese Students Association, Florida Atlantic University, 1991-1993
Member, Undergraduate Teaching and Advising Awards Committee, College of Social Science, Florida Atlantic University, 1991-1992
Member, University Committee on Statistics, Florida Atlantic University, 1991-1992
Co-Director, GIS/Remote Sensing Laboratory, Department of Geography, Florida Atlantic University, 1990-1992
EEO Associate, College of Urban and Public Affairs, Florida Atlantic University, 1989-1990
Member, University Tower Computing Committee, Florida Atlantic University, 1989-1990
Director, Geographic Information Systems Laboratory, Master's Program of Urban and Regional Planning, Florida Atlantic University, 1988-1990
Also, served on various search committees at Florida Atlantic University

C. Service to the Public

Advisor, Federation of Overseas Chinese Associations, 2003-2016
Member, Board of Directors, Organization of Chinese Americans – East Tennessee Chapter, 2005-2007 and 2000-2004
Advisor, Overseas Chinese Affairs Commission of the Government of Republic of China, 1998-2002
External Reviewer, Knox County/Blount County Regional Transportation Survey, Knoxville-Knox County Metropolitan Planning Commission, 2000-2001
President, Coral Springs Chinese Cultural Association, Florida, USA, 1992-1993

D. Invited Guest Presentations/Lectures

Guest Speaker, invited to give a presentation at a Webinar of University Consortium for Geographic Information Science (UCGIS), October 20, 2021 (delivered online)
Guest Speaker, invited to give a presentation at the Department of Geography, University at Buffalo, Buffalo, New York, October 1, 2021
Guest Speaker, invited to give a presentation at a Webinar of Computational Social Science Laboratory, Chinese University of Hong Kong, Hong Kong, August 26, 2021 (delivered online)
Guest Speaker, invited to give a presentation at the Department of Land Surveying and Geo-Informatics, Hong Kong Polytechnic University, Hong Kong, June 15, 2021 (delivered online)

- Guest Speaker, invited to give a presentation at the Department of Geography, National Taiwan University, Taipei, Taiwan, May 12, 2021
- Guest Speaker, invited to give a presentation at the Wyoming Geographic Information Science Center, University of Wyoming, Laramie, Wyoming, November 18, 2020 (delivered online)
- Guest Speaker, invited to serve as a discussant at the Rethinking Space and the Uses of GIScience in Digital Humanities Research Seminar, Humanities Center, University of Tennessee, Knoxville, Tennessee, October 23, 2020 (delivered online)
- Guest Speaker, invited to give a presentation at the Convergent GIScience Priorities Workshop, University of Arkansas, Fayetteville, Arkansas, October 28, 2019
- Guest Speaker, invited to give a presentation at the Spatial History Research Seminar, University of Tennessee, Knoxville, Tennessee, October 25, 2019
- Guest Speaker, invited to give a presentation at the Department of Land Surveying and Geo-Informatics, Hong Kong Polytechnic University, Hong Kong, October 9, 2019
- Guest Speaker, invited by the Bureau of Transportation Statistics, U.S. Department of Transportation, Washington, DC, April 4, 2019
- Guest Speaker, invited to give a presentation at the Department of Urban Engineering, University of Tokyo, Tokyo, Japan, March 25, 2019
- Guest Speaker, invited to give a presentation at the Research Center for Humanities and Social Sciences, Academia Sinica, Taipei, Taiwan, March 15, 2019
- Guest Speaker, invited to give a presentation at the Department of Geography, National Taiwan University, Taipei, Taiwan, March 14, 2019
- Guest Speaker, invited to give a presentation at the Department of Geography, Ohio State University, Columbus, Ohio, October 10, 2018
- Guest Speaker, invited by Shenzhen University, Shenzhen, China, November 16, 2017
- Guest Speaker, invited by the Lands Department, Government of the Hong Kong Special Administrative Region, November 13, 2017
- Guest Speaker, invited by the Department of Land Surveying and Geo-Informatics, Hong Kong Polytechnic University, Kowloon, Hong Kong, June 22, 2017
- Guest Speaker, invited by the Department of Geography, National Taiwan Normal University, Taipei, Taiwan, June 13, 2017
- Guest Speaker, invited by the Department of Geosciences, East Tennessee State University to deliver an online lecture to a graduate “GIS Projects” class, Johnson City, Tennessee, April 20, 2017
- Guest Speaker, invited by the School of Information Science and Technology and the School of Tourism and Geographical Sciences, Yunnan Normal University, Kunming, China, December 14, 2016
- Guest Speaker, invited by the First Interdisciplinary Forum, Shenzhen University, Shenzhen, China, December 7, 2016
- Guest Speaker, invited by the Traffic Control Center, Xiamen Police Department, Xiamen, China, December 5, 2016
- Guest Speaker, invited by the Institute of Geographical Science, Guangzhou Academy of Sciences, Guangzhou, China, November 29, 2016
- Guest Speaker, invited by the Speaker Series of Advanced Geoinformatics Research Topics, Wuhan University, Wuhan, China, March 14, 2016

Guest Speaker, invited by the Department of Traffic Engineering, Tongji University, Shanghai, China, March 10, 2016

Guest Speaker, invited by the Department of Geography, University of North Carolina, Greensboro, NC, February 19, 2016

Guest Speaker, invited by the Research Center of Intelligent Transportation System, Sun Yat-Sen University, Guangzhou, China, September 10, 2015

Guest Speaker, invited by the Institute of Remote Sensing and Geographical Information System, Peking University, Beijing, China, September 6, 2015

Guest Speaker, invited by the Robinson Colloquium, Department of Geography, The Ohio State University, Columbus, Ohio, November 21, 2014

Guest Speaker, invited by the Institute of Space and Earth Information Science, Chinese University of Hong Kong, Hong Kong, China, October 31, 2014

Guest Speaker, invited by the Chattanooga International Business Council, Chattanooga, Tennessee, August 28, 2014

Guest Speaker, invited to give a presentation at the Experian R&D Data Lab, San Diego, California, August 14, 2014

Guest Speaker, invited by the Research Center for Humanities and Social Sciences, Academia Sinica, Taipei, Taiwan, July 21, 2014

Guest Speaker, invited by the Supergeo Technologies, Taipei, Taiwan, July 5, 2014

Guest Speaker, invited by the Department of Geography, National Taiwan University, Taipei, Taiwan, January 8, 2014

Guest Speaker, invited by the Department of Geomatics, National Cheng Kung University, Tainan, Taiwan, January 6, 2014

Guest Speaker, invited by the School of Remote Sensing and Information Engineering, Wuhan University, Wuhan, China, December 26, 2013

Guest Speaker, invited by the Dean of the College of Arts and Sciences to give a presentation on the Confucius Institute at the annual meeting of the Dean's Board of Advisors, University of Tennessee, October 4, 2013

Guest Speaker, invited by the Institutes of Advanced Technology, the Chinese Academy of Sciences, Shenzhen, China, May 10, 2013

Guest Speaker, invited by the Department of Civil and Environmental Engineering, University of Tennessee, Knoxville, Tennessee, March 14, 2013

Guest Speaker, invited by the Department of Urban and Regional Planning, University of Illinois, Urbana-Champaign, Illinois, March 11, 2013

Guest Speaker, invited by the School of Civil and Environmental Engineering, Georgia Institute of Technology, Atlanta, Georgia, March 8, 2013

Guest Speaker, invited by the Office of the President, Shenzhen University, Shenzhen, China, December 31, 2012

Guest Speaker, invited by the School of Civil and Environmental Engineering, Georgia Institute of Technology, Atlanta, Georgia, September 25, 2012

Guest Speaker, invited by Kunming University of Science and Technology, Kunming, China, July 9, 2012

Guest Speaker, invited by Chang'an University, Xi'an, China, May 22, 2012

Guest Speaker, invited by Changsha University of Science and Technology, Changsha, China, March 19, 2012

Guest Speaker, invited by the Department of Geography, University of Georgia, Athens, Georgia, February 3, 2012

Guest Speaker, invited by the State Key Laboratory of Information Engineering in Surveying, Mapping and Remote Sensing, Wuhan University, Wuhan, China, December 27, 2011

Guest Speaker, invited by the Department of Thematic Studies, Linköping University, Linköping, Sweden, November 25, 2011

Guest Speaker, invited by the Department of Human Geography, Stockholm University, Stockholm, Sweden, November 22, 2011

Guest Speaker, invited by the State Key Laboratory of Resources and Environmental Information System, the Chinese Academy of Sciences, Beijing, China, October 21, 2011

Guest Speaker, invited by the Center for Intelligent Systems and Machine Learning, University of Tennessee, Knoxville, Tennessee, April 18, 2011

Guest Speaker, invited by the Department of Geography and the Department of Civil and Environmental Engineering, University of Connecticut, Storrs, Connecticut, March 28, 2011

Guest Speaker, invited by the Dean of the College of Arts and Sciences to give a presentation to the Dean's Advisory Board, University of Tennessee, Knoxville, Tennessee, October 22, 2010

Guest Speaker, invited by the Center for Urban and Regional Analysis, Department of Geography, The Ohio State University, Columbus, Ohio, September 3, 2010

Guest Speaker (tele-presentation), invited by the Center for Wireless and Population Health Systems, University of California at San Diego, February 8, 2010

Guest Speaker, invited by the Taiwan GIS Center, Taipei, Taiwan, October 12, 2009

Guest Speaker, invited by the Department of Geography, National Taiwan University, Taipei, Taiwan, October 6, 2009

Guest Speaker, invited by the National Transportation Research Center, Oak Ridge, Tennessee, August 12, 2009

Guest Speaker, invited by the Microsoft Research Institute (Asia), Beijing, China, May 26, 2009

Guest Speaker, invited by the Key State Laboratory of Resources and Environmental Information System, Institute of Geographic Sciences and Natural Resources Research, the Chinese Academy of Sciences, Beijing, China, May 20, 2009

Guest Speaker, invited by the Transportation Research Center, Wuhan University, Wuhan, China, October 16, 2008

Guest Speaker, invited by Office of the President, Chinese Culture University, Taipei, Taiwan, June 10, 2008

Guest Speaker, invited by the Graduate Institute of National Development, National Taiwan University, Taipei, Taiwan, June 3, 2008

Guest Speaker, invited by the Geographic Information Systems Research Center, Feng Chia University, Taichung, Taiwan, May 29, 2008

Guest Speaker, invited by the Department of Geography, National Taiwan University, Taipei, Taiwan, May 27, 2008

Keynote Lecturer, invited by the Department of Geography and Earth Sciences, University of North Carolina, Charlotte, October 26, 2007

Guest Lecturer, invited by the Department of Computer Science, University of Tennessee, Knoxville, September 13, 2007

Guest Speaker, invited by the Environmental Systems Research Institute Beijing (ESRI Beijing), Beijing, China, June 27, 2007

Guest Lecturer, invited by the Chinese University of Mining and Technology, Beijing, China, June 27, 2007

Guest Speaker, invited by the Student Chapter of the Institute of Transportation Engineers, University of Tennessee, Knoxville, March 27, 2007

Guest Lecturer, invited by the Department of Computer Science, University of Tennessee, Knoxville, February 13, 2007

Keynote Speaker, invited by the Tennessee Geographic Alliance, October 5, 2006

Guest Speaker, invited by the Technical Society of Knoxville, September 25, 2006

Guest Speaker, invited by the Computational Sciences and Engineering Division, Oak Ridge National Laboratory, April 28, 2006

Guest Lecturer, invited by the Department of Computer Science, University of Tennessee, Knoxville, January 24, 2006

Guest Speaker, invited by the Technical Society of Knoxville, July 21, 2003

Guest Speaker, invited by the Florida Department of Transportation, May 28, 2002

Guest Speaker, invited by the Knoxville Chinese Christian Church, April 23, 2000

Guest Speaker, invited by the Center for Transportation Research, University of Tennessee, December 3, 1999

Guest Speaker, invited by the Florida Department of Transportation, June 11, 1998

Guest Speaker, invited by the Florida Department of Transportation, July 8 & September 9, 1997

Guest Speaker, invited by the Broward County GIS Users Group, March 25, 1997

Guest Speaker, invited by the South Florida Water Management District, March 5, 1997

Guest Speaker, invited by the Florida Department of Transportation, September 22, 1995

Guest Speaker, invited by the IEEE Broward Chapter, May 12, 1994

Guest Speaker, invited by the Palm Beach Countywide GIS Committee, February 16, 1994

Guest Speaker, invited by the Southeast Florida Arc/Info User Group, November 1, 1993

Guest Speaker, invited by the Florida Department of Transportation, September 3, 1992

Guest Speaker, invited by the South Florida Water Management District, March 4, 1992