

Curriculum Vitae

Qunshan Zhao

Contact Details

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Education

- 2017 Ph.D. Geography, *Arizona State University*, School of Geographical Sciences and Urban Planning, Tempe, AZ, USA
American Association of Geographers “J. Warren Nystrom” Award for the Most Outstanding Research Paper Based Upon a Recent Dissertation (<http://www.aag.org/cs/nystrom>).
- 2015 M.A. Geography, *Arizona State University*, School of Geographical Sciences and Urban Planning, Tempe, AZ, USA
- 2013 B.E. Remote Sensing Science and Technology, *Wuhan University*, School of Remote Sensing and Information Engineering, Wuhan, Hubei, China

Academic Appointments

- 2019-present **Lecturer (Assistant Professor) in Urban Analytics**, Urban Big Data Centre (UBDC), School of Social and Political Sciences, University of Glasgow, UK
- 2017-2019 **Postdoctoral Research Associate**, Knowledge Exchange for Resilience (KER) and Spatial Analysis Research Center (SPARC), Arizona State University, USA
- 2013-2017 **Research Associate, Teaching Assistant, and Instructor**, School of Geographical Sciences and Urban Planning, Arizona State University, USA

Research Interests

Empirical: Urban Analytics, Active Travel and Sustainable Transport, Urban Green Infrastructure, Fuel Poverty, Urban Resilience, Human Activity Space, Urban and Regional Planning, Human-Environment Systems.

Methodology: GIScience (Geographic Information Systems, Remote Sensing, Spatial Analysis), Machine Learning/Statistics, Operations Research, Big Data Analytics, Urban Climate Modeling and Instrumentation, Sensor Network.

Study Area: United Kingdom, United States, China, Nepal.

Publications

Refereed Journal Articles

- 2020 **Zhao, Q.** & Wentz, E. A. (2020) Editorial for the Special Issue: “Remote Sensing of Urban Ecology and Sustainability.” *Remote Sensing*, 12(3), 443. <https://doi.org/10.3390/rs12030443>
- 2020 Wang, Z., Fan, C., **Zhao, Q.**, & Myint, S. W. (2020) A geographically weighted regression approach to understanding urbanization impacts on urban warming and cooling: A case study of Las Vegas. *Remote Sensing*, 12(2), 222. <https://doi.org/10.3390/rs12020222>
- 2019 Wang, C., Li, Y., Myint, S. W., **Zhao, Q.**, & Wentz, E. A. (2019). Impacts of spatial clustering of urban land cover on land surface temperature across Köppen climate zones in the contiguous United States. *Landscape and Urban Planning*, 192, 103668. <https://doi.org/10.1016/j.landurbplan.2019.103668>
- 2019 **Zhao, Q.**, Kelley, S., Xiao, F., & Kuby, M. J. (2019). A multi-scale framework for fuel station location: from highways to street intersections. *Transportation Research Part D: Transport and Environment*, 74, 48-64. <https://doi.org/10.1016/j.trd.2019.07.018>
- 2018 **Zhao, Q.**, Sailor, D. J., & Wentz, E. A. (2018). Impact of tree locations and arrangements on outdoor microclimates and human thermal comfort in an urban residential environment. *Urban Forestry & Urban Greening*, 32, 81-91. <https://doi.org/10.1016/j.ufug.2018.03.022>
- 2018 **Zhao, Q.**, Yang, J., Wang, Z., & Wentz, E. A. (2018). Assessing the cooling benefits of tree shade by an outdoor urban physical scale model at Tempe, AZ. *Urban Science*, 2(1), 4. <https://doi.org/10.3390/urbansci2010004>
- 2017 Yabiku, S. T., Glick, J. E., Wentz, E. A., Ghimire, D., & **Zhao, Q.** (2017). Comparing paper and tablet modes of retrospective activity space data collection. *Survey Research Methods*, 11(3), 329-344. <https://doi.org/10.18148/srm/2017.v11i3.6741>
- 2017 Kuai, X., & **Zhao, Q.** (2017). Examining healthy food accessibility and disparity in Baton Rouge, Louisiana. *Annals of GIS*, 23(2), 103-116. <https://doi.org/10.1080/19475683.2017.1304448>
- 2017 **Zhao, Q.**, Wentz, E. A., & Murray, A. T. (2017). Tree shade coverage optimization in an urban residential environment. *Building and Environment*, 115, 269-280. <https://doi.org/10.1016/j.buildenv.2017.01.036>
- 2016 **Zhao, Q.**, & Wentz, E. A. (2016). A MODIS/ASTER Airborne Simulator (MASTER) Imagery for Urban Heat Island Research. *Data*, 1(1), 7. <https://doi.org/10.3390/data1010007>
- 2015 **Zhao, Q.**, Myint, S. W., Wentz, E. A., & Fan, C. (2015). Rooftop surface temperature analysis in an urban residential environment. *Remote Sensing*, 7(9), 12135-12159. <https://doi.org/10.3390/rs70912135>

Submitted Journal Articles

- 2020 **Zhao, Q.**, Dickson, C., Thornton, J., Solis, P., & Wentz, E. A. “Articulating strategies to address heat resilience using spatial optimization and temporal analysis of utility assistance data of the Salvation Army Metro Phoenix.”

- Submitted to *Applied Geography*.
- 2020 Glick, J. E., Wentz, E. A., Yabiku, S. T., & **Zhao, Q.** Activity Space and Gender Stratification. Submitted to *Population, Space, and Place*.

Works in Progress

- 2020 **Zhao, Q.**, Shah, D., Li, Z., Fischer, H., Solis, P., & Wentz, E. A. “ActivityLog-HeatMappers: a novel research data collection tool for logging activities, locations and environment data.” To be submitted to *Computers, Environment, and Urban Systems*.
- 2020 **Zhao, Q.**, Reynolds, R., Li, Y., Wang, C., & Wentz, E. A. “A multidimensional (spatio-temporal-vertical) urban land cover change detection and spatial analysis.” Manuscript in preparation.
- 2020 **Zhao, Q.**, Wentz, E. A., Fotheringham, A. S., Yabiku, S. T., Hall, S. J., Murphy, S., & Clark, M. Spatial, social and ecological factors driving the distribution of invasive plant species in community forest ecosystems in subtropical Nepal. Manuscript in preparation.
- 2020 **Zhao, Q.**, Li, Y., Myint, S.W., Nelson, T., Wentz, E. A., Hu, Y., & Wang, F. Examining spatial association of crime, facilities, and night lights. Manuscript in preparation.
- 2020 Yabiku, S. T., Sullivan, A., York, A., **Zhao, Q.**, Glick, J. E., Hall, S. J., Ghimire, D., & An, L. Drivers of prohibited natural resource collection in a protected area invaded by the mile-a-minute weed (*Mikania micrantha*). Manuscript in preparation.
- 2020 Clark, M., **Zhao, Q.**, Sullivan A., Yabiku, S. T., York, A., Ghimire, D., An L., Murphy, S., and Hall, S. J. Social and ecological drivers of invasive plant species distribution in a biodiversity hotspot in subtropical Nepal. Manuscript in preparation.

Refereed Conference Proceedings

- 2020 Vonnak, R. & **Zhao, Q.** “Fuel Poverty and Income Deprivation in Bristol, UK.” *25th Geographical Information Science Research UK Conference (GISRUK 2020)*. (Accepted)
- 2019 **Zhao, Q.**, Dickson, C., Thornton, J., Wang, C., Solis, P., & Wentz, E. A. “Optimizing and rebalancing heat-related utility assistance provider-client system of the Salvation Army in Phoenix, Arizona.” *16th International Conference on Computers in Urban Planning and Urban Management (CUPUM 2019)*.
- 2019 **Zhao, Q.**, Reynolds, R., Wang, C., & Wentz, E. A. “A multidimensional urban land cover change analysis in Tempe, AZ.” *2019 Joint Urban Remote Sensing Event (JURSE 2019)*. IEEE. <https://doi.org/10.1109/JURSE.2019.8808957>
- 2018 **Zhao, Q.**, Fischer, H., Luo, W., & Wentz, E. A. Community resilience in Maricopa County, Arizona, USA: the analysis of indoor heat-related death and urban thermal environment.” In *AutoCarto/UCGIS 2018*, Madison, Wisconsin, USA.
- 2016 **Zhao, Q.**, Wentz, E. A., Fotheringham, A. S., Yabiku, S. T., Hall, S. J., Glick, J. E., Dai, J., Clark, M., & Heavenrich, H. Semi-parametric Geographically Weighted Regression (S-GWR): a Case Study on Invasive Plant Species Distribution in Subtropical Nepal. In *9th International Conference on*

Geographic Information Science, Montreal, Canada.

<https://doi.org/10.21433/B3118kv3n3bq>

- 2015 Wentz, E. A., & **Zhao, Q.** Assessing validation methods for building identification and extraction. In *2015 Joint Urban Remote Sensing Event (JURSE)* (pp. 1-4). IEEE. <https://doi.org/10.1109/JURSE.2015.7120453>
- 2014 **Zhao, Q.**, Wentz, E. A. & Murray, A. T. Shade optimization in a desert environment. In *8th International Conference on Geographic Information Science*, Vienna, Austria.
- 2012 **Zhao, Q.**, & Kuai, X. Land use classification and accuracy assessment based on image fusion of TM and SPOT5. In *18th China Symposium on Remote Sensing*. (In Chinese)
- 2012 Kuai, X., & **Zhao, Q.** Wetland image classification of remote sensing based on support vector machine. In *18th China Symposium on Remote Sensing*. (In Chinese)

Research Grants

External Funding

Submitted

Funded

- 2019-2022 **Urban Big Data Centre Data Service Extension**, Economic and Social Science Council (ESRC), United Kingdom (Co-PI. PI: Dr. Nick Bailey)
- 2019-2021 **Data Lab MSc Scholarship**, Scottish Funding Council and European Social Fund, United Kingdom (£12,060 for 2 MSc studentship each year, PI)
- 2019-2022 **Ventilation based Planning Methods to Respond Urban Haze Supported by Multi-source Spatial-temporal Big Data**, National Natural Science Foundation of China (¥600,000 in total, Co-PI. PI: Dr. Qingming Zhan, Grant # 51878515)
- 2017 **Optimizing Tree Locations and Arrangement for Mitigating Urban Heat Island Effects and Improving Human Thermal Comfort in a Hot Arid Urban Residential Environment**, Dissertation Research Grant, American Association of Geographers (\$1,000, PI)
- 2016 **Imagery Grant**, DigitalGlobe Foundation (12 high resolution remotely sensed imagery of QuickBird, WorldView-1, WorldView-2 and GeoEye-1 in Chitwan, Nepal, PI)
- 2016 **Imagery Grant**, European Space Agency (1 high resolution remotely sensed imagery of SPOT 6 in Chitwan, Nepal, Co-PI. PI: Dr. Sean Murphy)

Declined

- 2019 **The University as an Enabler for Sustainable Solutions**, Scottish Funding Council, United Kingdom (£250,000, Co-PI. PI: Dr. Jaime Toney)
- 2019 **Constructing a Digital Environment Expert Network**, Natural Environment Research Council, United Kingdom (£10,000, PI, invited for final interview)
- 2019 **Promoting cycling in Scottish cities: how to build effective cycling infrastructure?** Scottish Graduate School of Social Science Supervisor-led ESRC Steers PhD Competition, United Kingdom (4 years PhD studentship funding, Co-supervisor with Dr. Jinhyun Hong)

Internal Funding

Submitted

Funded

- 2020 **Mitigating Urban Heat Island Effects through the Intelligent Use of Sustainable Materials**, University of Edinburgh/University of Glasgow Jointly Funded PhD Studentships Project Competition (Theme: Future Cities), United Kingdom (4 years PhD studentship funding, Co-supervisor with Dr. Chris Beckett)
- 2017 **Impact of Tree Locations and Arrangements on Outdoor Microclimate and Human Thermal Comfort in a Compact Urban Residential Environment**, Graduate Grants for Research in Urban Ecology and Urban Systems Research, Central Arizona-Phoenix Long-Term Ecological Research (CAP-LTER), Arizona State University (\$4,000, PI)
- 2016 **Validating Microclimate Benefits from Optimal Tree Location Arrangement: a Physical Scale Model Site Field Measurement**, JumpStart Research Grant, Graduate and Professional Student Association (GPSA), Arizona State University (\$500, PI)
- 2015 **Rooftop Surface Temperature Analysis in an Urban Residential Environment**, Graduate Grants for Research in Urban Ecology and Urban Systems Research, Central Arizona-Phoenix Long-Term Ecological Research (CAP-LTER), Arizona State University (\$4,000, PI)
- 2015 **Tree Shade Effects on House Surface Temperature in an Urban Desert Environment**, Matthew G. Bailey Scholarship Award, School of Geographical Sciences and Urban Planning, Arizona State University (\$1,500, PI)

Honors and Awards

Awards

- 2018 **J. Warren Nystrom Award** (An outstanding paper based upon a recent dissertation in geography), American Association of Geographers
- 2017 **Graduate Excellence Awards**, College of Liberal Arts and Sciences, Arizona State University
- 2016 **Finalist, Landscape Specialty Group Student Presentation Competition**, American Association of Geographers
- 2013-2014 **University Graduate Fellowship**, Arizona State University
- 2013 **Geographical Sciences Teaching Assistant Award**, School of Geographical Sciences and Urban Planning, Arizona State University
- 2010-2012 **Fellowship for Academic Excellence**, Wuhan University
- 2011 **First Prize in Social Science Research**, Youth Research Center at Wuhan University
- 2010-2011 **Trimble Scholarship**, Wuhan University
- 2010-2011 **Outstanding Student**, Wuhan University

Travel Grants

- 2017 **Graduate College Preparing Future Faculty Travel Award**, Arizona State University
- 2015-2017 **Graduate College Travel Award**, Arizona State University
- 2015 **Conference Travel Grants**, CAP-LTER, Arizona State University

2015 **Individual Travel Funding**, GPSA, Arizona State University
2014 **John F. Lounsbury Student Travel Scholarship**, School of Geographical Sciences and Urban Planning, Arizona State University

Editorial Appointments

Themed Issues

2019-2020 Guest Editor, *Annals of GIS*, GIS and Urban Data Science (with Dr. Yijing Li and Dr. Chen Zhong)
2018-2019 Guest Editor, *Remote Sensing*, Remote Sensing of Urban Ecology and Sustainability (with Prof. Elizabeth A. Wentz)

Teaching Interests

Urban Analytics, Geographic Information Science, Remote Sensing, Spatial Analysis and Statistics, Location Modeling and Spatial Optimization, Sustainable Urban Environment.

Teaching Experience

University of Glasgow

Postgraduate

Spring 2020 Urban Analytics Group Projects (Course Convener).
Spring 2020 Programming Tools for Urban Analytics (Course Convener).
Fall 2019 Big Data and Urban Analytics (Course Convener).
Fall 2019 Quantitative Data Analysis (Course Tutor)

Undergraduate

Spring 2020 Social & Public Policy 2B: Policy, Politics and Power (Course Contributor).

Arizona State University

Spring 2017 GIS 461/561: Optimization Fundamentals for Spatial Analysis.
(Hybrid course instructor, co-teach with Dr. Heather Fischer)
Fall 2013 GPH 370: Geographic Information Technologies. (Teaching assistant, lab leader and grader)

Students Advised

University of Glasgow

- Reka Vonnak (M.Sc. in Urban Analytics, 2019-2020)
- Niantang Liu (Ph.D. in Geological and Earth Sciences/Geosciences, 2019-2022, Co-supervised with Dr. Brian Barrett and Dr. Richard Williams)
- Henry Ibitolu (Ph.D. in Civil and Environmental Engineering, University of Edinburgh/University of Glasgow Jointly Funded PhD Studentships, 2020-2024, Co-supervised with Dr. Chris Beckett)

Arizona State University

- Ryan Reynolds (M.A. in Geography, 2018-2019)
- Sam Golla (M.S. in Computer Science, 2018-2019)
- Dhruvil Shah (M.S. in Computer Science 2018-2019)

- Yalin Qu (Master of Urban and Environmental Planning, 2016-2017)
- Fan Xiao (Master of Geographic Information Science, 2015-2016)
- Sydney Tirella (B.S. in Geography, 2015)

Invited Presentations and Workshop

- 2019 Urban Studies Monday Workshop, University of Glasgow, United Kingdom. “Understanding Long-term Heat Resilience by Urban Analytics.” Nov 4, 2019.
- 2019 Building a Future for the Urban Analytics Blueprints, The Alan Turing Institute and University of Bristol, United Kingdom. “Understanding the Long-term Heat Resilience by Urban Analytics” Oct 17, 2019.
<https://www.turing.ac.uk/events/building-future-urban-analytics-blueprint>
- 2019 NERC Constructing a Digital Environment Workshop, Edinburgh, United Kingdom. Oct 16, 2019.
<https://nerc.ukri.org/innovation/activities/environmentaldata/digitalenv/news/workshops/>
- 2019 Urban Big Data Centre Research Meeting, University of Glasgow, United Kingdom. “Urban Analytics Implication for Urban Planning and Public Policy.” May 28, 2019.
- 2019 SPARC Brown Bag, Arizona State University, USA. “Knowledge Exchange for Resilience.” Mar 20, 2019. (Co-present with KER Executive Director, Dr. Patricia Solís)
- 2019 Laboratory of Systems Pharmacology and Center for Geographic Analysis, **Harvard University**, USA. “Thrive as cancer cells in forests? Spatial, social, and ecological factors driving the distribution of invasive plant (Mikania micrantha) establishment and spread in a biodiversity hotspot in subtropical Nepal.” Jan 10, 2019. (Presentation audio is available online at:
<https://gis.harvard.edu/event/thrive-cancer-cells-forests-spatial-social-and-ecological-factors-driving-distribution>)
- 2018 University of Glasgow, United Kingdom. “Building the MSc in Urban Analytics.” Dec 10, 2018.
- 2018 Transport Lab, Arizona State University, USA. “Trip-Based Hydrogen Station Location for Central Connecticut: Combining Regional and Micro Scale Modeling.” Nov 14, 2018. (Co-present with Dr. Michael Kubly)
- 2018 Science and Mathematics Colloquium Series, College of Integrative Sciences and Arts, Arizona State University, USA. “Community resilience in Maricopa County: urban green infrastructure planning and the HeatMapper citizen science project.” Sep 5, 2018.
- 2018 J. Warren Nystrom Award Presentation, **American Association of Geographers**, USA. “Impact of tree locations and arrangements on outdoor microclimates and human thermal comfort in an urban residential environment.” April 11, 2018.
<https://aag.secure-abstracts.com/AAG%20Annual%20Meeting%202018/sessions-gallery/12160>
- 2017 SPARC Brown Bag, Arizona State University, USA. “Designing a sustainable urban environment by spatial data science and urban climatology.” Nov 14, 2017.
- 2017 Dr. Chao Wang and Dr. Yu Yao’s group, School of Electrical, Computer, and Energy Engineering, Arizona State University, USA. “Fund yourself in the graduate school.” May 3, 2017.
- 2017 Dr. Kevin Gurney’s group, School of Life Sciences, Arizona State University,

USA. “Unveiling the myth of creating sustainable urban desert residential environment.” March 15, 2017.

Selected Conference Presentations and Posters

- 2020 Vonnak, R. & **Zhao, Q.** “Fuel Poverty and Income Deprivation in Bristol, UK.” *25th Geographical Information Science Research UK Conference (GISRUK 2020)*, London, UK, April 21-April 24, 2020. (Poster, upcoming)
- 2019 **Zhao, Q.**, Reynolds, R., Li, Y., Wang, C., & Wentz, E. A. “A multidimensional urban land cover change analysis in Tempe, AZ.” *JURSE 2019*, Vannes, France, May 22-May 24, 2019. (Poster)
- 2019 **Zhao, Q.**, Li, Z., Thornton, J., Solis, P., & Wentz, E. A. “Optimizing and rebalancing heat-related utility assistance provider-client system at Phoenix, Arizona.” *2019 Annual Meeting of the American Association of Geographers*, Washington D.C., USA, April 3-April 7, 2019. (Guided poster)
- 2019 **Zhao, Q.**, Fischer, H., Luo, W., Solis, P., & Wentz, E. A. “Community Resilience in Maricopa County, Arizona, USA: the Analysis of Indoor Heat-related Death and Urban Environment.” *The 99th American Meteorological Society Annual Meeting*, Phoenix, Arizona, USA, January 6-January 10, 2019. (Poster)
- 2018 **Zhao, Q.**, Fischer, H., Luo, W., & Wentz, E. A. “Community resilience in Maricopa county, Arizona, USA: the analysis of heat vulnerable population and urban green infrastructure.” *The 10th International Conference on Urban Climate*, New York, New York, USA, August 6-August 10, 2018. (Presentation)
- 2018 **Zhao, Q.**, Sailor, D. J., & Wentz, E. A. “Impact of tree locations and arrangements on outdoor microclimates and human thermal comfort in an urban residential environment.” *2018 Annual Meeting of the American Association of Geographers*, New Orleans, Louisiana, USA, April 10-April 14, 2018. (Presentation)
- 2017 **Zhao, Q.**, Kuby, M. J., & Xiao, F. “Optimal hydrogen station location for central Connecticut by using trip-based modeling at the regional scale.” *UCGIS 2017 Symposium*, Arlington, Virginia, USA, May 23-May 25, 2017. (Poster)
- 2017 **Zhao, Q.**, Yang, J., Wang, Z., & Wentz, E. A. “Assessing the cooling benefits of tree shade by a microclimate physical scale model site at Tempe, AZ.” *2017 Annual Meeting of the American Association of Geographers*, Boston, Massachusetts, USA, April 5-April 9, 2017. (Presentation)
- 2016 **Zhao, Q.**, Wentz, E. A., Fotheringham, A. S., Yabiku, S. T., Hall, S. J., Dai, J., Clark, M., & Heavenrich, H. “Semi-parametric geographically weighted regression (S-GWR): a case study on invasive plant species distribution in subtropical nepal.” *GIScience 2016*, Montreal, Canada, September 27-30, 2016. (Poster)

- 2016 **Zhao, Q.**, Wentz, E. A., Fotheringham, A. S., Yabiku, S. T., Hall, S. J., & Dai, J. “Socio-ecological factors influence to invasive plant species distribution in community forests ecosystems in subtropical Nepal” *2016 Annual Meeting of the American Association of Geographers*, San Francisco, California, USA, March 29-April 2, 2016. (Presentation)
- 2015 **Zhao, Q.**, Zhan, S., Kuai, X., & Zhan, Q. “Spatio-temporal analysis of urban heat island and urban metabolism by satellite imagery over the Phoenix metropolitan area” *AGU 2015 Fall Meeting*, San Francisco, California, USA, December 14-18, 2015. (Poster)
- 2015 **Zhao, Q.**, Myint, S. W., & Wentz, E. A. “Rooftop surface temperature analysis in urban residential environment.” *2015 Annual Meeting of the Association of American Geographers*, Chicago, Illinois, USA, April 21-25, 2015. (Presentation)
- 2015 **Zhao, Q.**, & Wentz, E. A. “Assessing validation methods for building identification and extraction.” *JURSE 2015*, Lausanne, Switzerland, March 30-April 1, 2015. (Presentation and poster)
- 2014 **Zhao, Q.**, Wentz, E. A., & Murray, A. T. “Shade optimization in a desert environment.” *2014 Annual Meeting of the Association of American Geographers*, Tampa, Florida, USA, April 8-14, 2014. (Presentation)
- 2012 **Zhao, Q.**, & Kuai, X. “Land use classification and accuracy assessment based on image fusion of TM and SPOT5.” *The 18th China Symposium on Remote Sensing*, Wuhan, Hubei, China, October 20-23, 2012. (Presentation)

Professional Service

Research Grant Proposal Reviewer

- *UK Research and Innovation – Global Challenges Research Fund*
- *University of Wisconsin-Milwaukee’s Discovery and Innovation Grant*

Journal Reviewer

- *Journal of Geophysical Research: Atmospheres*
- *Landscape and Urban Planning*
- *Energy Policy*
- *Land Degradation & Development*
- *IEEE Geoscience and Remote Sensing Letters*
- *Transportation Research Record*
- *Environment and Planning B: Urban Analytics and City Science*
- *International Journal of Remote Sensing*
- *Annals of GIS*
- *PLOS ONE*
- *Sustainable Cities and Society*
- *ISPRS International Journal of Geo-Information*
- *PeerJ*

- *Atmosphere*
- *Sustainability*
- *Journal of the American Water Resources Association*
- *Ecosystem Health and Sustainability*
- *Natural Hazards*

Book Chapter Reviewer

- “*Integrating Scale in Remote Sensing and GIS*”, CRC Press, Taylor & Francis Group.

Professional Service

- 2019-2020 Session Chair and Co-organizer, *Urban Data Science: Methods, Models, and Applications for Our Changing Cities*, 2020 Annual Meeting of the American Association of Geographers, Denver, Colorado, USA (Virtual Sessions).
- 2018-2021 Board Member, Spatial Analysis and Modeling Specialty Group, American Association of Geographers (<http://sam-aag.org/officers.html>).
- 2018-2019 Bibliography Committee Member, International Association for Urban Climate
- 2017 Session Chair and Co-organizer, *Urban green infrastructure: geospatial and climate application*, 2018 Annual Meeting of the American Association of Geographers, New Orleans, Louisiana, USA.
- 2017-2018 Science Advisor, NASA DEVELOP National Program
- 2015 Session Co-Chair, *Applications of urban remote sensing*, Joint Urban Remote Sensing Event (JURSE) 2015, Lausanne, Switzerland.

University Service

- 2020-now Core Member, Research Integrity and Openness Working Group, Urban Studies, School of Social and Political Sciences, University of Glasgow
- 2019-now Programme Convener, MSc in Urban Analytics, Urban Studies, School of Social and Political Sciences, University of Glasgow
- 2015-2016 Secretary, ASU Student Chapter of American Society for Photogrammetry & Remote Sensing (ASPRS).

Professional Society Membership

American Association of Geographers
 Chinese Professionals in Geographic Information Sciences
 International Association for Urban Climate
 IEEE Geoscience and Remote Sensing Society
 Association of British Chinese Professors