

Yi Qiang

Assistant Professor

School of Geosciences, University of South Florida

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Education

- 2012 **Ph.D. in Geography**, Department of Geography, Ghent University, Belgium
- 2007 **M.Sc. in Geographic Information Science**, University of Edinburgh, United Kingdom
- 2006 **B.Sc. in Geographic Information Systems and B.A. in Law (Minor)**, Beijing Normal University, China
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Appointments

- 2020 - now **Assistant Professor**, School of Geosciences, University of South Florida
- 2020 - now **Affiliate Faculty**, Dept of Geography and Environment, University of Hawai'i – Mānoa
- 2017 - 2020 **Assistant Professor**, Dept. of Geography and Environment, University of Hawai'i – Mānoa
- 2016 **Research Associate**, the Earth Lab, University of Colorado-Boulder
- 2013 - 2016 **Post-doctoral Researcher**, Dept. of Environmental Sciences, Louisiana State University
- 2007 **Research Assistant**, UK National e-Science Institute, University of Edinburgh
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Publications

Peer-Reviewed Journal Articles (*advised student author)

-Forthcoming.....
1. Carlson, K.; Battenfield, B; **Qiang, Y.**, “Wetland Classification Accuracy and Scale: Visualizing Uncertainty Metrics Across Multiple Resolutions”. under review by *Transactions in GIS*
 2. **Qiang, Y.**, Zou, L., Cai, H., “Quantitative Measurement of Community Resilience: Current Challenges, Progresses and Future Directions”. minor revision in *Urban Resilience and Sustainability*
-Published.....
3. **Qiang, Y.**, Battenfield, B., Xu, J.* , (2022) “Analyzing Multi-Scale Spatial Pattern in a Pyramid Modeling Framework”. *Cartography and Geographic Information Science*. <http://10.1080/15230406.2022.2048419>
 4. Yang, M., Zou, L., Cai, H., **Qiang, Y.**, Lin, B., Zhou, B., Abedin, J., Mandal, D. (2022). “Spatial–Temporal Land Loss Modeling and Simulation in a Vulnerable Coast: A Case Study in Coastal Louisiana”. *Remote Sensing*. vol.14 (4). DOI: <https://doi.org/10.3390/rs14040896>
 5. Xu, J.* , **Qiang, Y.** (2021). “Spatial Assessment of Community Resilience from 2012 Hurricane Sandy using Nighttime Light”. *Remote Sensing*. <https://doi.org/10.3390/rs13204128>
 6. Xu, J.* , **Qiang, Y.** (2021). “Analysing Information Diffusion in Natural Hazards using Retweets – a Case Study of 2018 Winter Storm Diego” *Annals of GIS*. vol.28(2), pp. 213-227. DOI: 10.1080/19475683.2021.1954086
 7. Peng, B., Huang, Q., Vongkusolkiet, J., Gao, S., Wright, D. B., Fang, Z. N., **Qiang, Y.** (2020). “Urban Flood Mapping with Bi-temporal Multispectral Imagery via a Self-supervised Learning Framework” *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*. vol.8. DOI: 10.1109/JSTARS.2020.3047677

8. **Qiang, Y.**, Bittenfield, B. P., Joseph, M. B., (2020) “How to Measure Distance on a Digital Terrain Surface and Why it Matters in Geographical Analysis”, *Geographical Analysis*. vol.53(3), pp. 588-622. DOI: 10.1111/gean.12255
9. **Qiang, Y.**, Huang, Q., Xu, J.*, (2020) “Observing Disaster Resilience from Space: Using Nighttime Light to Model Economic Disturbance and Recovery Pattern in Natural Disaster”, *Sustainable Cities and Society*, vol.57. <https://doi.org/10.1016/j.scs.2020.102115>
10. **Qiang, Y.**, Xu, J.*, (2020) “Empirical assessment of road network resilience in natural hazards using crowdsourced traffic data”, *International Journal of Geographical Information Science*, vol: 12(34) pp.2434-2450. DOI: 10.1080/13658816.2019.1694681
11. **Qiang, Y.**, Xu, J.*, Zhang, G., (2019) “The Shapes of US Cities: Revisiting the Classic Population Density Functions Using Crowdsourced Geospatial Data”, *Urban Studies*. vol.57(10). DOI:10.1177/0042098019871191
12. **Qiang, Y.** (2019) “Flood Exposure of Critical Infrastructure in the United States”, *International Journal of Disaster Risk Reduction*. vol: 39, DOI:10.1016/j.ijdr.2019.101240
13. **Qiang, Y.** and Van de Weghe, N. (2019) “Re-Arranging Space, Time and Scales in GIS: Alternative Models for Multi-Scale Spatio-Temporal Modeling and Analyses”, *ISPRS International Journal of Geo-Information*. vol: 8(2). DOI:10.3390/ijgi8020072
14. **Qiang, Y.** (2019) “Disparities of Population Exposed to Flood Hazards in the United States”, *Journal of Environmental Management*. vol: 232 (15). DOI:10.1016/j.jenvman.2018.11.039
15. **Qiang, Y.**, Shen, S., and Chen, Q. (2019) “Visibility Analysis of Oceanic Blue Space Using Digital Elevation Models”, *Landscape and Urban Planning*. vol:181. DOI:10.1016/j.landurbplan.2018.09.019
16. Cai H., Lam NSN., **Qiang Y.**, Zou L., Correll RM., Mihunov V. (2018). “A Synthesis of Disaster Resilience Measurement Methods and Indices” *International Journal of Disaster Risk Reduction*. vol: 31. DOI:10.1016/j.ijdr.2018.07.015.
17. Cai H., Lam NSN., Zou L., **Qiang Y.** (2018). “Modeling the Dynamics of Community Resilience to Coastal Hazards Using a Bayesian Network.” *Annals of the American Association of Geographers*. vol:108(5). DOI:10.1080/24694452.2017.1421896.
18. Lam, NSN., Xu, Y.J., Liu, K., Dismukes, D.E., Reams, M., Pace, R.K., **Qiang, Y.**, Narra, S., Li, K., Bianchette, T.A., Cai, H., Zou, L., Mihunov, V. (2018). “Understanding the Mississippi River Delta as a Coupled Natural-Human System: Research Methods, Challenges, and Prospects.” *Water*. vol: 10(8). DOI:10.3390/w10081054.
19. Zou L., Lam NSN., Cai H., **Qiang Y.** (2018). “Mining Twitter Data for Improved Understanding of Disaster Resilience.” *Annals of the American Association of Geographers*. vol: 108(5). DOI:10.1080/24694452.2017.1421897.
20. Lam, NSN., **Qiang Y.**, Li, K., Cai H., Zou, L and Mihunov, V. (2018) “Extending Resilience Assessment to Dynamic System Modeling: Perspectives on Human Dynamics and Climate Change Research”. *Journal of Coastal Research*. vol: 85, pp:1401–1405. doi.org/10.2112/SI85-281.1.
21. **Qiang, Y.**, Lam, N., Zou, L. and Cai, H., (2017) “Changes in Exposure to Flood Hazards in the United States”, *Annals of the American Association of Geographers*. vol: 107(6). DOI:10.1080/24694452.2017.1320214
22. Li, X., Lam, N., **Qiang, Y.**, Li, K., Yin, L., Liu, S., and Zheng, W., (2016) “Measuring County Resilience after the 2008 Wenchuan Earthquake”, *International Journal of Disaster Risk Science*. vol:7(4), DOI:10.1007/s13753-016-0109-2

23. **Qiang, Y.** and Lam, N., (2016) “The Impact of Hurricane Katrina on Urban Growth in Louisiana: An Analysis Using Data Mining and Simulation Approaches”, *International Journal of Geographical Information Science*. vol:30(9). DOI:10.1080/13658816.2016.1144886
24. Bianchette, T., Liu, K., **Qiang, Y.**, and Lam, N., (2015) “Wetland accretion rates along coastal Louisiana: Spatial and temporal variability in light of Hurricane Isaac’s impacts”, *Water*. vol: 8(1). DOI:10.3390/w8010001
25. Cai, H., Lam, N., Zou, L., **Qiang, Y.**, Li, K., (2015) “Assessing Community Resilience to Coastal Hazards in the Lower Mississippi River Basin”, *Water*. vol: 8(1). DOI:10.3390/w8020046
26. Zou, L., Kent, J., Lam, N., Cai, H., **Qiang Y.**, Li, K., (2015) “Evaluating Land Subsidence Rates and their Implications for Land Loss in the Lower Mississippi River Basin”, *Water*. vol:8(1). DOI:10.3390/w8010010
27. Lam, N., **Qiang, Y.**, Arenas, H., Brito, P. and Liu, K., (2015) “Mapping and Assessing Coastal Resilience in the Caribbean Countries”, *Cartography and Geographic Information Science*. vol:42(4). DOI: 10.1080/15230406.2015.1040999
28. **Qiang, Y.** and Lam, N., (2015) “Modeling Land Use and Land Cover Changes in a Vulnerable Coastal Region Using Artificial Neural Networks and Cellular Automata”, *Environmental Monitoring and Assessment*. vol:187(3). DOI:10.1007/s10661-015-4298-8
29. Li, K., Lam, N., **Qiang, Y.**, Zou, L. and Cai H., (2015) “A Cyberinfrastructure for Community Resilience Assessment and Visualization”, *Cartography and Geographic Information Science*. vol:42(s1). DOI:10.1080/15230406.2015.1060113
30. Chavoshi, S. H., De Beats, B., **Qiang, Y.**, De Tré, G., Neutens, T. and Van de Weghe, N., (2015) “A Qualitative Approach to the Identification, Visualisation and Interpretation of Repetitive Motion Patterns in Groups of Moving Point Objects”, *International Arab Journal of Information Technology*. vol:12, no. 5, pp 415-423
31. Van de Weghe, N., De Roo, B., **Qiang, Y.**, Neutens, T. and De Maeyer, P., (2014) “The Continuous Spatio-Temporal Model (CSTM) as an Exhaustive Framework for Multi-Scale Spatio-Temporal Analysis”, *International Journal of Geographical Information Science*. vol:28(5). DOI:10.1080/13658816.2014.886329
32. **Qiang, Y.**, Valcke, M., and Van de Weghe, N., (2014) “Representing Time Intervals in a Two-Dimensional Space: An Empirical Exploratory Study”. *Journal of Visual Languages and Computing*. vol:25(4), pp 466-480. doi.org/10.1016/j.jvlc.2014.01.001
33. **Qiang, Y.**, Chavoshi, S.H., Logghe, S., De Maeyer, P., and Van de Weghe, N. (2014) “Multi-scale Analysis of Linear Data in a Two-Dimensional Space”, *Information Visualization*. vol:13(3), pp 248-265. DOI:10.1177/1473871612436775
34. **Qiang, Y.**, Delafontaine, M., Versichele, M., De Maeyer, P., and Van de Weghe, N., (2012) “Interactive Analysis of Time Intervals in a Two-Dimensional Space”, *Information Visualization*. vol:11(4). DOI:10.1177/1473871612436775
35. **Qiang, Y.**, Delafontaine, M., Neutens, T., Stichelbaut, B., De Maeyer, P., and Van de Weghe, N., (2012) “Analysing imperfect temporal information in GIS using the Triangular Model”, *The Cartographic Journal*. vol:11(4). DOI:10.1179/1743277412Y.0000000008
36. **Qiang, Y.**, Delafontaine, M., Asmussen, K., Stichelbaut, B., De Tré, G., De Maeyer, P. and Van de Weghe, N. (2010) “Modelling Imperfect Time Intervals in a Two-Dimensional Space”, *Control and Cybernetics*, vol:39(4).

Book Chapters

37. **Qiang, Y.** (2021) “Geospatial Analysis and Model Building”. *The Geographic Information Science & Technology Body of Knowledge (1st Quarter 2020 Edition)*, John P. Wilson (ed.). DOI:10.22224/gistbok/2021.1.12.
38. Yuan, Y., **Qiang, Y.**, Bin Asad, K., and Chow, T. E. (2020). “Point Pattern Analysis”. *The Geographic Information Science & Technology Body of Knowledge (1st Quarter 2020 Edition)*, John P. Wilson (ed.). DOI: 10.22224/gistbok/2020.1.13.
39. Lam NS-N, Xu Y.J., Pace R.K., Liu, K.B., **Qiang, Y.**, Narra, S., Bianchette, T.A., Cai, H. (2019) “Collaboration Across Boundaries: Reflections on Studying the Sustainability of the Mississippi River Delta as a Coupled Natural-Human System”. In: Perz SG (ed.) *Collaboration Across Boundaries for Social-Ecological Systems Science: Experiences Around the World*. Springer International Publishing, pp. 361–393. DOI: 10.1007/978-3-030-13827-1_11.
40. Brodaric, B., Reitsma, F. and **Qiang, Y.** 2007, “SKling with DOLCE: toward an e-Science Knowledge Infrastructure”, in *Formal ontology in information systems*, C Eschenbach, M Gruninger (ed.), Amsterdam, The Netherlands. pp. 208-219. ISBN: 978-1-58603-923-3

Conference proceedings

41. **Qiang, Y.**, Barbara P. Buttenfield, Nina Lam, and Nico Van de Weghe. 2018. “Novel Models for Multi-Scale Spatial and Temporal Analyses.” In *Proceedings of 10th International Conference on Geographic Information Science (GIScience 2018)*, edited by Stephan Winter, Amy Griffin, and Monika Sester, 114:55:1–55:7. DOI:10.4230/LIPIcs.GISCIENCE.2018.55.
42. Buttenfield, B., Ghandehari, M., Leyk, S., Stanislawski, L., Brantley, M. and **Qiang, Y.**, (2016) Measuring Distance “As the Horse Runs”: Cross-Scale Comparison of Terrain-Based Metrics, In *proceedings of GIScience 2016*, Montreal, Canada, pp.41-44
43. De Tré, G., Bronselaer, A., Billiet, C., **Qiang, Y.**, Van de Weghe, N., De Maeyer, P., Enrique Pons, J., and Pons, O. (2012) Visualising and handling uncertain time intervals in a two-dimensional triangular space, In *proceedings of the 2nd world conference on soft computing*, Baku, Azerbaijan, pp.585-592
44. Asmussen, K., **Qiang, Y.**, De Maeyer, P., Van de Weghe, N. (2009). Triangular Model for Studying and Memorising Temporal Knowledge, In *proceedings of International Conference of Education, Research and Innovation*, Madrid, Spain. pp. 1849-1859.
45. **Qiang, Y.**, Reitsma, F. & Van de Weghe, N. (2009) Towards a General Temporal Ontology for Knowledge Integration, In *proceedings of the International Conference on Knowledge Engineering and Ontology Development*, Funchal. Portugal. pp. 275-280.
46. **Qiang, Y.**, Asmussen, K., Delafontaine, M., De Tré, G., Stichelbaut, B., De Maeyer, P. & Van de Weghe, N. (2009) Visualising rough time intervals in a two-dimensional space, In *proceedings of 2009 IFSA World Congress / EUSFLAT Conference*, Lisbon, Portugal. pp. 1480-1485

Presentations

1. “CroScalar: A Multi-Scale Modeling Framework for Spatio-Temporal Data”. Abstract accepted by AutoCarto 2022, Riverside, LA, November, 2022
2. “CroScalar: An Integrated Framework for Cross-Scale Spatio-Temporal Modeling” in the 2022 Annual Meeting of American Association of Geographers (virtual)
3. “Tracing the Curves of Rebound: Data-Driven Methods for Disaster Resilience Modeling” in the 2021 Annual Meeting of American Association of Geographers (virtual)

4. "Data-Driven Approaches to Analyze Geographic Disparities in Flood Exposure and Community Resilience" in the 2021 Annual Workshop of Initiative on Coastal Adaptation and Resilience (iCAR) (virtual)
5. "Big Data Approaches for Disaster Resilience Assessment" in the Fall Colloquium of School of Geosciences, University of South Florida, virtual, November, 2020
6. "Scales as Additional Dimensions in Space and Time" in the Scale and Spatial Analytics Workshop, Spatial Analysis Research Center (SPARC), Arizona State University, February, 2020.
7. "Tracing the Curves of Bouncing Back: Data Driven Methods for Assessing Disaster Resilience" in the Natural Resources & Environmental Management Research Seminar Series, University of Hawaii, Honolulu, HI, September 2019
8. "Spatio-Temporal Data Mining and Analyses in a Multi-Scale Framework" in the 2019 Annual Meeting of American Association of Geographers, Washington, DC, 2019
9. "Novel Models for Multi-Scale Spatial and Temporal Analyses" in the 10th International Conference of Geographical Information Science, Melbourne, Australia, August, 2018
10. "Physical Exposure and Social Sensitivity: Sea Level Rise Impacts to Transportation through Vulnerability Assessment and Social Media Analysis" in *2018 PRiMO Conference Technology and Disaster Risk Reduction*, Honolulu, Hawaii, August, 2018.
11. "Artificial Intelligence and Deep Learning in the Modeling of Coupled Natural and Human Dynamics" in *2018 Annual Meeting of AAG*, New Orleans, LA, April, 2018
12. "A Systematic Evaluation of Surface-Adjusted Distance Measurements using a HPC-enabled Monte Carlo Simulation", in *2017 Annual Meeting of AAG*, Boston, Massachusetts, April 2017.
13. "Modeling Long-Term Human Dynamics in Response to Natural Hazard Using Remote Sensing Data", in *2016 Annual Meeting of AAG*, San Francisco, California, March 2016.
14. "High Performance Computing with Python for Geocomputation", in *2015 AAG CyberGIS Workshop*, Chicago, Illinois, April 2015.
15. "Modeling the Coupled-Natural and Human Dynamics in a Vulnerable Coastal System Using CyberInfrastructure", in *2015 annual meeting of the Association of American geographers*, Chicago, Illinois, April 2015.
16. "Modeling Land Use and Land Cover Changes in A Vulnerable Coastal Region Using Artificial Neural Network", in *2014 annual meeting of the Association of American geographers*, Tampa, Florida, April 2014.
17. "Comparing the Land Use Land Cover Change between the South and North Louisiana Using Data Mining", in *the 29th RSGIS workshop in Louisiana*, Lafayette, Louisiana, April 2013
18. "Multi-Scale Analysis of Linear Data in a Two-Dimensional Space", in *workshop on space-time cube*, Enschede, the Netherlands, June 2012
19. "Visualising and analysing time series data in GIS", in *Workshop of Geospatial Visual Analytics: Focus on Time (GeoVa(t))*, Guimarães, Portugal, May 2010
20. "Triangular Model for Studying and Memorising Temporal Knowledge", in *the International Conference of Education, Research and Innovation*, Madrid, Spain, Nov. 2009
21. "Towards a General Temporal Ontology for Knowledge Integration", in *the International Conference on Knowledge Engineering and Ontology Development*, Funchal. Portugal, Oct. 2009

Research Grants

1. PI/PD: "CoPe EAGER: Collaborative Research: A GeoAI Data-Fusion Framework for Real-Time Assessment of Flood Damage and Transportation Resilience by Integrating Complex Sensor Datasets",

funded by *NSF CoPe-Coastlines and People Program*, \$40,000, duration 2020-2021, collaborating with University of Wisconsin-Madison and University of Texas at Arlington.

2. PI/PD: “Cross-Scale Spatiotemporal Modeling Using an Integrated Data Framework”, funded by *NSF Methodology, Measurement, and Statistics and Geography and Geospatial Science Program*, \$350,000, duration: 2019 – 2022, with University of Hawaii - Manoa and University of Colorado – Boulder.
 3. Co-PI: “Putting the farmer in the driver's seat: Integrative web tool for improved soil health and carbon assessment, monitoring, and planning”, funded by *US Department of Agriculture, National Institute of Food and Agriculture*, \$449,035, duration 2018 – 2022, with PI Susan Crow and co-PI Johnathan Deenik (UH-Manoa)
 4. Co-investigator: “Understanding the Socio-Ecological Drivers and Consequences of Seasonal Air Pollution”, funded by *NSF Cultural Anthropology Senior Research Program (98-1390)*, \$276,897, duration 2018-2021, with PI Mary Mostafanezhad and co-PI Olivier Evrard (Institute of Research for Development, France).
 5. Co-PI: “Physical Exposure and Social Sensitivity: Estimating Sea Level Rise Impacts to Transportation through Vulnerability Assessment and Social Media Analysis”, funded by *University of Hawaii Pacific Southwest Region 9 University Transportation Center*, \$40,207, duration 2017-2018, with PI Suwan Shen (UH-Manoa)
 6. PI: “Who Own the Paradise: Using Supercomputer to Analyze Oceanview Inequality in Oahu”, *Support of Undergraduate Research, College of Social Sciences at UH-Manoa*. \$3,600, duration: 2017-2018.
 7. PI: “ Using Social Media Data to Analyze Spatial Zoning, Connectivity and Social Disparities in Honolulu”, *Research Support Award, College of Social Sciences at UH-Manoa*. \$20,318 duration: 2017-2018.
 8. PI: “Using CyberGIS to Model the Coupled Natural and Human Dynamics in a Vulnerable Coastal System” funded by *CyberGIS Fellow Program*, duration: 2014-2015, \$6,400, duration: 2014-2015.
 9. Co-PI: “A Synthesis of Resilience Measurement Methods and Indices”, funded by *Louisiana Sea Grant Program*, duration 2014 -2016, \$49,940, duration: 2014-2016, with PI Nina Lam (Louisiana State University)
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Courses Taught

- GIS-6100: Geographic Information Systems (USF)
 - GIS-6307: Spatial Data Science (USF)
 - GEO-4930: Geospatial Data Analytics (USF)
 - GEOG-104: Digital Earth (UHM)
 - GEOG-489: Applied GIS (UHM)
 - GEOG-476: Web Mapping (UHM)
 - GEOG-389: Geospatial Data Analytics (UHM)
 - GEOG-388: Introduction to GIS (UHM)
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Graduate Student Advising

Advising

1. Jinwen Xu, Ph.D. in Geography and Environmental Policy, USF (2018 -)
2. Xiang Li, PhD in Geography and Environmental Policy, USF (2022 -)
3. Cong Ma, PhD in Geography and Environmental Policy, USF (2022 -)
4. Megan Grove, MA in Geography, USF (2021 - now)
5. Linbo Han, MS in Environmental Science and Policy, USF (2022 -)
6. Silvia Sulis, MA in Geography, UH-Manoa (graduated in 2019)

Serving in the committee

1. Yuzhou Chen, Ph.D. in Geography and Environmental Policy, USF
2. Shakhawat H. Tanim, Ph.D. in Geography and Environmental Policy, USF
3. Lauren Carter, Ph.D. in Geography and Environmental Policy, USF

4. Leilani Paxton, PhD in Geography and Environmental Science and Policy, USF
 5. Nathan Shull (graduated in 2021), MA in Geography, USF
 6. Ross Wians, MA in Geography (graduated in 2021), UH - Manoa
 7. Derek Ford, MA in Geography (graduated in 2020), UH – Manoa
 8. Renee Setter, MA in Geography (graduated in 2020), UH – Manoa
 9. Qian Zhang, Ph.D. in Geography, UH - Manoa
 10. Mehran Ghandehari, Ph.D. in Geography (graduated in 2019), University of Colorado - Boulder
 11. Pengdong Zhang, Ph.D. in Geography (graduated in 2018), Ghent University, Belgium
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Service to the College and University

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| 2017 - 2018 | Graduate Committee at the Department of Geography and Environment at UH-Manoa |
| 2018 - 2019 | Undergraduate Committee at the Department of Geography and Environment at UH-Manoa |
| 2017 - 2019 | Organizing Committee of the Geography Symposium at the Department of Geography and Environment at UH-Manoa |
| 2020 - now | Graduate Committee at the School of Geosciences, USF |
| 2020 – now | GIS Committee at the School of Geosciences, USF |
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Service to the Community and Profession

Professional Organizations

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| 2022 – now | Member of Board of Directors in the International Association of Chinese Professionals in Geographic Information Sciences |
| 2022 – now | Associate Editor of Journal <i>Urban Resilience and Sustainability</i> |
| 2014 – now | Member of American Association of Geographers |
| 2022 | Organizer of Symposium on Scale in Spatial Analytics and Modeling in 2022 Annual Meeting of AAG |
| 2019 | Co-organizer of “GeoAI and Deep Learning Symposium” at the AAG Annual Meeting, Washington, DC, April 2019 |
| 2018 | Co-organizer of “Artificial Intelligence and Deep Learning Symposium ” at the AAG Annual Meeting, Washington, DC, April 2019 |

Ad-Hoc Reviewer for Grant Proposal

U.S. National Science Foundation; The Research Grant Council (RGC) of Hong Kong

Panel Reviewer for Grant Proposal

NSF Mid-scale Research Infrastructure-1; NSF CSSI Program; U.S. - Egypt Science and Technology Joint Fund

Journal and Manuscript Review

International Journal of Geographical Information Science; Annals of American Association of Geographers; Proceedings of the National Academy of Sciences (PNAS); Scientific Report; Landscape and Urban Planning; Applied Geography; Scientific Report; Journal of Spatial Science; International Journal of Disaster Risk Reduction; Journal of Location Based Services; Geocarto International; Human and Ecological Risk Assessment: An International Journal; Environment Modeling & Assessment; IEEE Transactions on Fuzzy Systems; Agricultural Systems; Sustainability; Health Informatics Journal; Journal of Visual Languages and Computation; International Journal of Urban Sustainable Development; International Journal of Disaster Risk Reduction;