

CURRICULUM VITAE

FANG QIU

Geospatial Information Sciences
School of Economic, Political and Policy Sciences
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EDUCATIONAL HISTORY

- Ph. D. December 2000, University of South Carolina, Columbia, South Carolina, Geographic Information System and Remote Sensing
Dissertation: *Opening the Black Box of Neural Networks and Breaking the Knowledge Acquisition Bottleneck of Fuzzy Expert Systems with a Hybrid Neuro-Fuzzy Image Classification System*. Major Advisor: John R. Jensen.
- M. Sc. August 1993, National Laboratory of Resource and Environmental Information System, Chinese Academy of Sciences, Beijing, China, Geographic Information Systems
Thesis: *Spatial Decision Support System for Site Selection Study*.
- B. Sc. August 1990, East China Normal University, Shanghai, China
Geography with GIS emphasis
Thesis: *Map Display System Design and Implementation for GIS*.
- Certificates August, 1995, Authorized Instructor, Environment System Research Institution (ESRI). For teaching *Introduction to Arc/Info*, *Introduction to ArcView GIS*, and *Spatial Database Design*

PROFESSIONAL TRAINING:

- 2005, Nov. Advanced Spatial Demography, by Daniel Griffith and Francesco Lagona, International Max Planck Research School of Demography, Max Planck Institute for Demographic Research, Rostock, Germany
- 2002, June Introduction to Spatial Data Analysis, by Luc Anselin, ICPSR Summer Program in Quantitative Methods, The University of California, Santa Barbara
- 1994-2004 Multiple ESRI Training Certificates: Introduction to Arc/Info, Introducing ArcView, Customize ArcView with Avenue, Using Arc/Info with Grid, ArcStorm, ArcScan, Network, Cogo, Tin and Database Design, Designing GeoDatabase, Introduction to ArcIMS, Customize ArcIMS with HTML and Javascript, Introduction to Geoprocessing Scripts Using Python

EMPOLYMENT HISTORY:

2013 - Now Department Head, Geospaital Information Sciences, School of
Economic, Political and Policy Sciences, University of Texas at Dallas
2014 - Now Professor with tenure, Geospaital Information Sciences, School of
Economic, Political and Policy Sciences, University of Texas at Dallas
2006 - 2013 Associate Professor with tenure, Geospaital Information Sciences,
School of Economic, Political and Policy Sciences, University of
Texas at Dallas
2000 - 2006 Assistant Professor, Geographic Information Sciences, School of
Social Sciences, University of Texas at Dallas
1996 - 2000 Research Assistant and Instructor, NASA Affiliated Research Center
at the Department of Geography, University of South Carolina.
1994 - 1996 Director and Certified Instructor, Arc/Info Technical Consulting and
Training Center of China, Chinese Academy of Sciences.
1993 - 1994 Research Associate, National Laboratory of Resources and
Environment Information System, Chinese Academy of Sciences.

RESEARCH INTERESTS

Remote Sensing Digital Image Processing, LIDAR, High Spatial Resolution, and
Hyperspectral Remote Sensing, Neural Network and Fuzzy Logic, Spatial Analysis
and Modeling, Small Area Population Estimation and Areal Interpolation, Crime
Analysis and Modeling, GIS Application Software Development, and Web-based
Mapping and Information Processing.

PROFESSIONAL RECONITIONS AND HONORS:

2013-2015 EPPS Outstanding Teaching Comet Award, University of Texas at
Dallas, three times.
2013 ERDAS Award for the Best Scientific Paper in Remote Sensing, 1st
Place, American Society of Photogrammetry and Remote Sensing.
2013 AAG Remote Sensing Specialty Group 2013 Award Winner,
American Association of Geographers
2011 AAG Remote Sensing Specialty Group 2011 Award Winner,
American Association of Geographers
2006 Best Web Application Award (3rd place), ESRI (Environmental
Systems Research Institute) International Conference.
2004-2006 CPGIS Go-West Lecture Tour Travel Award, International
Association of Chinese Professionals in Geographic Information
Sciences.
2002 Course Development for Online Instruction Award, UTD Center for
Online Learning and Technology
2000 Paul E. Lovingood, Jr. Research Award, 2000, University of South
Carolina
2000 IEEE Geoscience and Remote Sensing Society 2000 Student Prize
Paper Award, Second Prize, Institute of Electrical and Electronics
Engineering
2000 IGASS 2000 Travel Support Award, Honolulu Hawaii

- 2000 CPGIS 2000 Annual Best Student Paper Award, International Association of Chinese Professional in Geographic Information Systems
- 1990 - 1993 Outstanding Graduate Student, Chinese Academy of Sciences.
- 1990 Best Bachelor Thesis Award, East China Normal University.
- 1986 - 1990 Fellowship, East China Normal University, Shanghai

PROFESSIONAL MEMBERSHIP/LEADSHIP:

- 2007-2008 President, International Association of Chinese Professional in Geographic Information Sciences - Abroad (CPGIS)
- 2010-2013 Vice Chair, Spatial Analysis and Modeling specialty group, Association of American Geographers (AAG)
- Member American Society for Photogrammetry and Remote Sensing (ASPRS)
- Member Association of American Geographers (AAG)
- Member IEEE Geosciences and Remote Sensing Society (GRSS)
- Life Member International Association of Chinese Professional in Geographic Information Sciences - Abroad (CPGIS)

PUBLICATIONS:

Peer Reviewed Articles: (+ denotes advisee, * denotes corresponding author)

1. Haitao Lyu, Fang Qiu, Li An, Douglas Stow, Rebecca Lewison, Eve Bohnett, 2024, Deer survey from drone thermal imagery using enhanced faster R-CNN based on ResNets and FPN, *Ecological Informatics*, Volume 79, 102383, <https://doi.org/10.1016/j.ecoinf.2023.102383>.
2. Qiu, F., and Y. Tang⁺, 2022, Big remote sensing data as curves, In B. Li, X. Shi, AX, Zhu., C. Wang, and H. Lin (eds.), *New Thinking in GIScience*, pp 29-39, Springer, Singapore https://doi.org/10.1007/978-981-19-3816-0_4
3. Li, X⁺, F. Qiu*, F. Shi, and Y. Tang. 2022. A Recursive Hull and Signal-Based Building Footprint Generation from Airborne LiDAR Data. *Remote Sensing* 14, No. 22: 5892. <https://doi.org/10.3390/rs14225892>
4. Tang, Y. ⁺, F. Qiu*, B. Wang, D. Wu, L. Jing and Z. Sun, 2022. A deep relearning method based on the recurrent neural network for land cover classification. *GIScience & Remote Sensing*, 59: 1, 1344–1366. <https://doi.org/10.1080/15481603.2022.2115589>
5. Tang, Y. ⁺, F. Qiu*, L. Jing, F. Shi, and X. Li, 2021, A recurrent curve matching classification method integrating within-object spectral variability and between-object spatial association. *International Journal of Applied Earth Observation and Geoinformation*, 101, 102368. <https://doi.org/10.1016/j.jag.2021.102367>
6. Wan, H., Y. Tang⁺, L. Jing, H. Li, F. Qiu, and W. Wu, 2021, Tree Species Classification of Forest Stands Using Multisource Remote Sensing Data. *Remote Sensing.*, 13, 144. <https://doi.org/10.3390/rs13010144>
7. Tang, Y. ⁺, F. Qiu*, L. Jing, F. Shi, and X. Li, 2020, Integrating spectral variability and spatial distribution for object-based image analysis using curve matching approaches, *ISPRS Journal of Photogrammetry and Remote Sensing*, 169:320-336; <https://doi.org/10.1016/j.isprsjprs.2020.09.023>
8. Shi, F. ⁺, F. Qiu*, X. Li, R. Zhong, C. Yang, and Y. Tang, 2020, Detecting and

- Tracking Moving Airplanes from Space Based on Normalized Frame Difference Labeling and Improved Similarity Measures, *Remote Sensing*, 12, 3589, <https://doi.org/10.3390/rs12213589>
9. Shi, F. ⁺, F. Qiu*, X. Li, Y. Tang, R. Zhong and C. Yang, 2020, A Method to Detect and Track Moving Airplanes from a Satellite Video, *Remote Sensing*, 12, 2390; <https://doi.org/10.3390/rs12152390>
 10. Ding, H. ⁺, K. Liu, X. Chen, L. Xiong, G. Tang, F. Qiu and J. Strobl, 2020, Optimized Segmentation Based on the Weighted Aggregation Method for Loess Bank Gully Mapping, *Remote Sensing*, Vol.12 (793), <https://doi.org/10.3390/rs12050793>
 11. Tang, Y. ⁺, L. Jing, F. Shi, X. Li, and F. Qiu*, 2019, A hybrid model integrating spatial pattern, spatial correlation, and edge information for image classification. *Remote Sensing*, Vol. 11(13), 1599, <https://doi.org/10.3390/rs11131599>
 12. X. Zhang⁺, F. Qiu, and F. Qin, 2019. Identification and mapping of winter wheat by integrating temporal change information and Kullback–Leibler divergence. *International Journal of Applied Earth Observation and Geoinformation*, Vol 76, 26-39, <https://doi.org/10.1016/j.jag.2018.11.002>
 13. Y. Zhou⁺, F. Qiu*, F. Ni, C. Zhang, M. Alfarhan, and A. Al-Dosari, 2016, Curve matching approaches to waveform classification: a case study using ICESat data. *GIScience & Remote Sensing*. Vol. 53(6), 739-758. <https://doi.org/10.1080/15481603.2016.1232147>
 14. Chastain, B. ⁺, F. Qiu*, and A. R. Piquero. 2016, Crime theory evaluation using simulation models of residential burglary. *American Journal Of Criminal Justice*. Vol. 41 (4), 814-833. <https://doi.org/10.1007/s12103-016-9336-8>
 15. Zhou, Y. ⁺ and F. Qiu*, 2015. Fusion of high spatial resolution WorldView-2 imagery and LiDAR pseudo-waveform for object-based image analysis. *ISPRS Journal of Photogrammetry and Remote Sensing*. Vol 101:221-232. <https://doi.org/10.1016/j.isprsjprs.2014.12.013>
 16. Zhou, Y. ⁺, F. Qiu*, A. Al-Dosari, and M. Alfarhan. 2015. ICESat waveform-based land cover classification using a curve matching approach. *International Journal of Remote Sensing*. Vol. 36 (1), 36-60. <https://doi.org/10.1080/01431161.2014.990648>
 17. Chen B. ⁺, F. Qiu*, B. Wu, and H. Du. 2015. Image Segmentation Based on Constrained Spectral Variance Difference and Edge Penalty. *Remote Sensing*. 7(5), 5880-6004. <https://doi.org/10.3390/rs70505980>
 18. Zhang, C. ⁺, Y. Zhou, and F. Qiu*. 2015. Individual Tree Segmentation from LiDAR Point Clouds for Urban Forest Inventory. *Remote Sensing*. 7 (6), 7892-7913. <https://doi.org/10.3390/rs70607892>
 19. Qiu⁺, F., B. Chastain, Y. Zhou, C. Zhang, and H. Sridharan*. 2014. Modeling land suitability/capability using fuzzy evaluation, *GeoJournal*. Vol 79:167-182. <https://doi.org/10.1007/s10708-013-9503-0>
 20. Zhang, C. ⁺, H. Cooper, D. Selch, X. Meng, F. Qiu, S. W. Myint, C. Roberts, Z. Xie. 2014. Mapping Urban Land Covers Using Object-based Multiple Endmember Spectral Mixture Analysis, *Remote Sensing Letters*, Vol. 5 (6). 521-529. <https://doi.org/10.1080/2150704X.2014.930197>

21. Qiu F. and R. Cromley. 2013. Introduction: Areal interpolation and dasymetric modeling, *Geographical Analysis*. Vol. 45 (3). 213-215.
<http://dx.doi.org/10.1111/gean.12016>
22. Sridharan, H. ⁺ and F. Qiu*. 2013. A spatially disaggregated areal-interpolation model using LiDAR derived building volumes, *Geographical Analysis*. Vol. 45 (3). 238-258. <https://doi.org/10.1111/gean.12010>
23. Sridharan, H. ⁺ and F. Qiu*. 2013. Developing an object-based hyperspatial image classifier with a case study using Worldview-2 data, *Photogrammetric Engineering and Remote Sensing*. Vol. 79 No. 11, 1027–1036. (AAG Remote Sensing Specialty Group 2013 Award Winner).
<https://doi.org/10.14358/PERS.79.11.1027>
24. Qiu, F., C. Zhang, and Y. Zhou, 2012. The development of an areal interpolation ArcGIS extension and a comparative study, *GIScience and Remote Sensing*. Vol. 49 (5), 644-663. <https://doi.org/10.2747/1548-1603.49.5.644>
25. Qiu, F., F. Ni, B. Chastain, H. Huang, P. Zhao, W. Han, and L. Di. 2012. GWASS: GRASS web application software system based on the GeoBrain web service, *Computers & Geosciences*. 47:143-150.
<https://doi.org/10.1016/j.cageo.2012.01.023>
26. Zhang, C. ⁺ and F. Qiu*. 2012a. Mapping individual tree species in an urban forest using airborne LiDAR data and hyperspectral imagery, *Photogrammetric Engineering and Remote Sensing*. Vol. 78 (10) 1079-1087 (AAG Remote Sensing Specialty Group 2012 Award Winner, and 2013 ERDAS Award for Best Scientific Paper in Remote Sensing, 1st Place by American Society of Photogrammetry and Remote Sensing).
<https://doi.org/10.14358/PERS.78.10.1079>
27. Zhang, C. ⁺ and F. Qiu*. 2012b. Unsupervised hyperspectral image classification using a neuro-fuzzy system, *Journal of Applied Remote Sensing*. Vol. 6 (063515) 1-14, (AAG Remote Sensing Specialty Group 2011 Best Student Paper Competition Award 1st Place) <https://doi.org/10.1117/1.JRS.6.063515>
28. Zhang, C. ⁺, and F. Qiu*. 2011. A point-based intelligent approach to areal interpolation, *Professional Geographer*. Vol. 63, No. 2, 262-276.
<https://doi.org/10.1080/00330124.2010.547792>
29. Qiu, F., H. Sridharan, and Y. Chun, 2010. Spatial autoregressive models for population estimation at the block level using LIDAR derived volume information. *Cartography and Geographic Information Systems*. Vol. 37, No. 3, 239-257. <https://doi.org/10.1559/152304010792194949>
30. Curtin, K. M., K. L. Hayslett-McCall, and F. Qiu, 2010. Determining Optimal Police Patrol Areas with Maximal Covering and Backup Covering Location Models, *Networks and Spatial Economics*, DOI 10.1007/s11067-007-9035-6. Vol. 10, No. 1, 125-145. <https://doi.org/10.1007/s11067-007-9035-6>
31. Qiu, F., 2008. Neuro-fuzzy Based Analysis of Hyperspectral Imagery, *Photogrammetric Engineering and Remote Sensing*, Vol. 74, No. 10, 1235-1247.
<https://doi.org/10.14358/PERS.74.10.1235>
32. Zhang, C. ⁺, G. Chen, and F. Qiu. 2008, Annual amphibidromes observed in the atmosphere with remote sensing data, *Journal of Geophysical Research-Atmospheres*, 113, D16112, <https://doi.org/10.1029/2008JD009864>

33. Qiu, F., B. Li, B. Chastain, and M. Alfarhan, 2008. A GIS based spatially explicit model of dispersal agent behavior, *Forest Ecology and Management*, Vol. 254, No. 3, 524-537. <https://doi.org/10.1016/j.foreco.2007.06.038>
34. Zhang, C. ⁺, and F. Qiu*, 2008. An empirical relationship between sea surface temperature and water vapor: an improvement to the physical model with remote sensing derived data, *Journal of Oceanography*, Vol. 64, No. 1, 163-170. <https://doi.org/10.1007/s10872-008-0012-6>
35. Qian, Y., F. Qiu, J. Chang and K. Zhang, 2008. Visualization informed noise elimination and its application in processing high spatial resolution remote sensing imagery, *Computers and Geosciences*, Vol. 34. No. 1, 35-52. <https://doi.org/10.1016/j.cageo.2007.02.006>
36. Qiu, F., M. Abdelsalam, and P. Thakkar, 2006. Spectral Analysis of ASTER Data Covering Part of Neoproterozoic Allaqi-Heiani Suture, Southern Egypt, *Journal of African Earth Sciences* (Special issue on Remote Sensing Applications to Geological Problems of Africa), Vol. 44, No. 2, 169-180. <https://doi.org/10.1016/j.jafrearsci.2005.10.009>
37. Cooper, J. R. ⁺ and F. Qiu, 2006. Expediting and Standardizing Stone Artifact Refitting Using a Computerized Suitability Model. *Journal of Archaeological Science*, Vol. 33, 987-998. <https://doi.org/10.1016/j.jas.2005.11.005>
38. Xie, Z., and F. Qiu, 2005. Issues on the Use of Variogram-Based Feature Vectors in Content Based Image Retrieval. *The Florida Geographer*, Vol. 36, 41-60. <https://journals.flvc.org/flgeog/article/view/76886/75295>
39. Qiu, F., J. Berglund, J.R. Jensen, P. Thakkar and D. Ren, 2004. Speckle Noise Reduction for SAR Imagery Using a Local Adaptive Median Filter, *GIScience and Remote Sensing*, Vol. 41, No. 3, 224-266. <https://doi.org/10.2747/1548-1603.41.3.244>
40. Qiu, F. and J.R. Jensen, 2004. Opening the Black Box of Neural Networks for Remote Sensing Image Classification. *International Journal of Remote Sensing*, Vol. 25, No. 9, 1749-1768. <https://doi.org/10.1080/01431160310001618798>
41. Qiu, F., K. Woller and R. Briggs, 2003. Modeling Urban Population Growth from Remotely Sensed Imagery and TIGER GIS Road Data, *Photogrammetric Engineering and Remote Sensing*, Vol. 69, No. 9, September, 2003, 1031-1042. <https://doi.org/10.14358/PERS.69.9.1031>
42. Jensen, J.R., F. Qiu, and K. Patterson, 2001. A Neural Network Image Interpretation System to Extract Rural and Urban Land Use and Land Cover Information from Remote Sensor Data, *GeoCarto International, A Multi-disciplinary Journal of Remote Sensing and GIS*, Vol. 16. No. 1, 19-28. <https://doi.org/10.1080/10106040108542179>
43. Jensen, J.R., F. Qiu and M. Ji, 1999. Predictive Modeling of Coniferous Forest Age Using Statistical and Artificial Neural Network Approaches Applied to Remote Sensing Data, *International Journal of Remote Sensing*, Vol. 20, No. 14, 2805-2822, <https://doi.org/10.1080/014311699211804>
44. Li, X. and F. Qiu, 1995. The Application of GPS and GIS in Vehicle Real-time Monitoring, *Remote Sensing Technology and Application*, Vol. 10, No. 2, 33 – 37

Edited Special Issues

45. Qiu, F., and R. Cromley (eds), 2013. Areal Interpolation and Dasymetric Mapping. *Geographical Analysis*. Vol. 45 (3).

Peer Reviewed Book Chapters:

46. Hayslett-McCall, K.L., F. Qiu, B. Chastain, J. Schubert, and V. Carver, 2008. The Simulation of the Journey to Residential Burglary, In Liu L. and J. Eck (ed.), *Artificial Crime Analysis System: Using Computer Simulation and Geographic Information Systems*, Hershey, PA: Idea Group, pp. 281-299
47. Curtin, K. M., F. Qiu, K. L. Hayslett-McCall, and T. M. Bray, 2005. Integrating Geographic Information Systems and Maximal Covering Models to Determine Optimal Police Patrol Areas, In Fahui Wang (ed.), *Geographic Information Systems and Crime Analysis*. Hershey, PA: Idea Group, pp 214-235.

Peer Reviewed Articles in Conference Proceedings:

48. Li, C., L. Khan, B. Thuraisingham, M. Husain, S. Chen, and Fang Qiu, 2007. Land Cover Classification and Grouping For Semantic Assessment, IEEE International Conference on Intelligence and Security Informatics (ISI) New Brunswick, NJ, May 23-24, 2007, 255-262.
49. Qian, Y., K. Zhang, and F. Qiu, 2005. Spatial Contextual Noise Removal for Post-classification Smoothing of Remotely Sensed Images, Proc. 20th Annual ACM Symposium on Applied Computing, Santa Fe, USA, 13-17 March 2005, ACM Press, pp. 524-528.
50. Qiu, F. and T. Pathik, 2004, Online Geo-referencing of satellite imagery using GIS Web Services, Proceedings of International Geoscienc and Remote Sensing Symposium, IEEE IGARSS 2004 Conference, September 20-24, 2004, Anchorage, Alaska, DVD-ROM 0-7803-8743-0
51. Qiu, F. 2000. Opening the Black Box of Neural Networks with Fuzzy Set Theory to Facilitate the Understanding of Remote Sensing Image Processing, Proceedings of International Geoscienc and Remote Sensing Symposium, IEEE IGARSS 2000 Conference, July 24-28, 2000, Honolulu, Hawaii, pp. 1531-1533 Vol. 4
52. Qiu, F. 1998. Simulation of Seed Dispersal in a Competitive Environment Using a Spatial Behavioral Model, Proceedings of International Conference on Modeling Geographical and Environmental System with Geographical Information System (GIS), Vol. 2, 645-651, June 22-25, 1998, Hong Kong.
53. Qiu F. and G. Cao, 1994. SSDSS: A Prototype of Site Selecting Spatial Decision Support System, Proceedings of Asia GIS/LIS, AM/FM and Spatial Analysis Conference (CD-ROM). March 29 - 31, 1994, Hong Kong.

Edited Books:

54. S. Li, and F. Qiu, 1995. *Customize Arc/Info with AML*, Chinese Academy of Sciences (Chinese)
55. Qiu, F., R. Chen, and S. Li, 1995. *Introducing ArcView*, Chinese Academy of Sciences (Chinese)
56. S. Li and F. Qiu, 1995. *Customize ArcView with Avenue*, Chinese Academy of Sciences (Chinese)

57. Qiu, F., Y Su, Q. Shao, Y. Sheng, X. Li, and Q. Wang, 1994. *Introduction to Arc/Info*, Chinese Academy of Sciences (Chinese)
58. Shao, Q., Q. Wang, X. Li, and F. Qiu, 1994. *Advanced Arc/Info*, Editor, Chinese Academy of Sciences (Chinese)
59. Qiu, F., Q. Shao, Y. Yao, and S. Li, 1995. *Using Grid and Tin in Arc/Info*, Chinese Academy of Sciences (Chinese)

Other Conference Abstract and Presentation:

60. Qiu, F., 2019, A New Paradigm for Remote Sensing Big Data Analytics, Invited Speaker by Henan University, Kaifeng, Henan, China, December 20th, 2019.
61. Qiu, F., LiDAR Based Detection of Power Distribution Facilities, GeoTech Conference, Dallas, TX, February 27-March 3, 2018.
62. Qiu, F., R. Liu, and F. Shi, 2018, Segmentation-based LiDAR Data Classification using Fractal in an Urban Environment, Annual Conference of American Association of Geographers (AAG), New Orleans, LA, April 10-14th, 2019.
63. Li, X., and F. Qiu, 2018, Fast Detection and Localization of Powerline using Lidar Data, Annual Conference of American Association of Geographers (AAG), New Orleans, LA, April 10-14th, 2019.
64. Qiu, F. and F. Ni, 2017. GPU-based Parallelization of a Neuro-Fuzzy Hyperspectral Image Classification. Annual Conference of American Association of Geographers (AAG), Boston, MA, April 5-9th, 2017.
65. Shi, F., S., Liang, and F. Qiu, 2017. Object-Based Image Classification Using Ensemble Learning Algorithm, Annual Conference of American Association of Geographers (AAG), Boston, MA, April 5-9th, 2017.
66. Qiu, F. and Y. Zhou, 2016. Fusion of LiDAR waveform and high spatial resolution image: an object-based approach. International Remote Sensing Conference, Riyadh, Saudi Arabia, January 17-20, 2016.
67. Qiu, F. and Y. Zhou, 2016. Curve matching approaches to waveform classification: A case study using ICESat Data. Annual Conference of American Association of Geographers (AAG), San Francisco, CA, March 29-April 2, 2016.
68. Ni, F., Qiu, F., and Y. Zhou, 2016. GPU-based Object-based Image Classification through Data Fusion of High Spatial Resolution Imagery and LiDAR Pseudo-waveform. Annual Conference of American Association of Geographers (AAG), San Francisco, CA, March 29-April 2, 2016.
69. Li, X., Qiu, F., 2016. Signal Based Building Footprint Regularization from Airborne LiDAR data. Annual Conference of American Association of Geographers (AAG), San Francisco, CA, March 29-April 2, 2016.
70. Liang S. and Qiu, F., 2016. Structure height extraction using LIDAR data and 3D modeling generation in City Engine. Annual Conference of American Association of Geographers (AAG), San Francisco, CA, March 29-April 2, 2016.
71. Shi, F., Qiu, F., 2016. Object-based classification of WorldView-2 data using semivariogram. Annual Conference of American Association of Geographers (AAG), San Francisco, CA, March 29-April 2, 2016.
72. Qiu F. and H. Sridharan, 2016. Vegetation species identification using hyperspectral and high spatial resolution imagery. The Agro-Geoinformatics, Tianjin, China, July 18-20, 201.

73. Qiu F., 2016. Spatial and temporal relationship between ozone and asthma. Workshop of Public Health Application of Geographic Information and Spatial Analysis, Shanghai, China, July 26-28, 2016
74. Qiu, F. and Y. Zhou, 2015. Object based image classification based on fusing WoldView-2 Image and LiDAR pseudo-waveform. SWAAG, San Antonio, TX, November 4-7, 2015.
75. Y. Zhou and Qiu, F., 2015. Comparing curve matching approaches for land cover classification using waveform data. GeoComputation 2015 Conference, Dallas, TX, May 20-23, 2015
76. Qiu, F., Y. Zhou, and F. Ni, 2015. Advances in Remote Sensing Technology Demand New Big Spatial Data Analytics. AAG, Chicago, IL, April 20-25, 2015.
77. J. Chang and Qiu, F., 2015. Segmentation-Based Classification of LiDAR Point Cloud. American Society for Photogrammetry and Remote Sensing (ASPRS) 2015 Annual Conference, Tampa, FL, April 4-8, 2015
78. Qiu, F., 2014. GIS and Remote Sensing for Natural Hazard Management. The 2nd Saudi International Environmental Technologies Conference 2014, Riyadh, Saudi, November 10-12, 2014
79. Qiu, F., 2014. The role of remote sensing in emergency management. International Symposium on Emergency Management 2014 (ISEM'14), Shenzhen, Guangdong, China, November 8-9, 2014.
80. Qiu, F., 2014. Evaluation of crime theories using CA and agent based simulation of burglary. International Conference on Geo-simulation and Crime Geography, Guangzhou, China, July 3-5, 2014
81. Qiu, F., H. Sridharan, and Y. Zhou, 2014. Comparison of WorldView-2 8-band and AISA hyperspectral data for urban forest classification. AAG, Tampa, FL, April 8-12, 2014.
82. Qiu, F. and H. Sridharan, 2013. A spatially disaggregated areal-interpolation model using LiDAR derived building volumes. Annual Conference of American Association of Geographers (AAG), Los Angeles, CA, April 9-13, 2013.
83. Qiu, F., 2013. Professor John. R. Jensen's mentorship. Annual Conference of American Association of Geographers (AAG), Los Angeles, CA, April 9-13, 2013. Invited Speaker.
84. Qiu, F. and Harini Sridharan, 2013. An object-based image analysis of World-View-2 Data, The 21st International Conference on Geoinformatics Conference, Kaifeng, Henan, China, June 20 – 22, 2013.
85. Qiu, F. and C. Yuan, 2012. Parallel processing of massive LiDAR point clouds using CUDA enabled GPU. Annual Conference of American Association of Geographers (AAG), New York City, NY, February 24-28, 2012
86. Qiu, F., 2012. Now you can see trees, not just forest. Ge-tech Conference, Dallas, TX, March 2-3, 2012.
87. Qiu, F. and B. Chastain, 2012. A Residential Burglary Simulation Model with Real-World Calibration. Geoinformatics 2012, HongKong, China, June 15-17, 2012.
88. Qiu, F., 2012. Now you can see trees, not just forest. Geo-Tech Conference, Dallas, TX, March 2-3, 2012.
89. Qiu, F., C. Zhang, and H. Chen. 2011. A k nearest neighbors based areal

- interpolation using point data as ancillary information. Annual Conference of American Association of Geographers (AAG), Seattle, WA, April 12-16, 2011.
90. Qiu, F. And H. Sridharan. 2011. Urban forest classification using the WorldView-2 8-band hyperspatial imagery: a multi-level object-based approach. Geoinformatics 2011, Shanghai, China, July 24-26, 2011.
 91. Qiu, F. and C. Zhang, 2010. Forest Inventory at the Individual Tree Level using Lidar Point Cloud Data, American Society for Photogrammetry and Remote Sensing (ASPRS) 2010 Annual Conference, San Diego, CA, April 26-30.
 92. Qiu, F. J. Chang, Z. Lu, and C. Zhang, 2010. Object Based 3D Model Acquisition for Individual Buildings and Trees from Airborne Lidar, GeoWeb 2010, Vancouver, Canada, July 26-30, 2010.
 93. Zhang C. and F. Qiu, 2010. Unsupervised Hyperspectral Image Classification Using a Neuro-fuzzy System, Annual Conference of American Association of Geographers (AAG), Washington, DC, April 14-18, 2010.
 94. Sridharan H. and F. Qiu, 2010. Population Estimation from An Additional Third Dimensional Perspective, Annual Conference of American Association of Geographers (AAG), Washington, DC, April 14-18, 2010.
 95. Qiu, F., C. Zhang, and H. Chen, 2010. An Improved Point Based Areal Interpolation Using K-Nearest Neighbors, The 18th International Conference on Geoinformatics 2010, Beijing, China, June 18-20.
 96. Dean D., H. Sridharan and F. Qiu F, 2009. Spectral Separability Analysis of Urban Tree Species Using Spectrometer Measurements, Annual Conference of American Association of Geographers (AAG), Las Vegas, NV, March 22-27, 2009.
 97. Chastain B., F. Qiu, F. and F. Mendoza J., 2009. A GIS-based simulation model of seed dispersal with mammalian habitat corridors, Annual Conference of American Association of Geographers (AAG), Las Vegas, NV, March 22-27, 2009.
 98. Chang J. and F. Qiu, 2009, Object-Oriented Feature Extraction Based on LIDAR Point Segmentation, American Society for Photogrammetry and Remote Sensing (ASPRS) 2009 Annual Conference, Baltimore, MD, March 9-13, 2009
 99. Qiu F., Bryan Chastain, Haiting Huang, 2009. GWASS: GRASS Web Application Software System enabled by service oriented architecture, American Society for Photogrammetry and Remote Sensing (ASPRS) 2009 Fall Conference, San Antonio, TX, November 16-19, 2009
 100. Fang Qiu, Bryan Chastain, Haiting Huang, Yaochen Qin, Liping Di, 2009. Revitalizing GRASS using service oriented architecture, Geoinformatics 2009 Conference, Fairfax, VA, August 12-14, 2009
 101. Qiu F. and J. Chang, 2008. A 3D Mutual Nearest Neighborhood Based Filtering of Airborne LIDAR Data, Annual Conference of American Association of Geographers (AAG), Boston, MA, April 15-19, 2008.
 102. Chen S. and F. Qiu. 2008, Population estimation based on object-oriented classification of high spatial image at the census block level, ASPRS 2008 Annual Conference, Portland, Oregon, April 28 – May 2, 2008.
 103. Qiu F., 2008, Spectral analysis of hyperspectral imagery based on a neuro-fuzzy system, Advanced Remote Sensing Training Workshop, June 25-26, Hong

Kong

104. Chastain B., F. Qiu, 2008, Modeling residential burglary in a hybrid CA/MAS system with automatic AHP calibration, Geoinformatics 2008, Guangzhou, Guang Dong, China, June 28-29, 2008.
105. Qiu, F., 2008, Segmentation based airborne LIDAR data filtering and feature extraction, CPGIS 2008 Geomatics Workshop, Harbin, Heilongjiang, China, July 1-2, 2008
106. Qiu, F. and S. Chen, 2007. Multivariate Spatial Interpolation: A Comparative Study, Annual Conference of American Association of Geographers (AAG), San Francisco, CA, April 17-21 2007.
107. Qiu, F., and S. Ibrahim, 2006. Urban Feature Extraction and 3d City Modeling Using LIDAR and High-Resolution Digital Orthophotos, American Association of Geographers Annual Conference, Chicago, IL, USA, 6-11 March 2006.
108. Qiu, F. 2006. Cellular Automata and Agent-Based Modeling and Simulation of Forest Distribution in a GIS Environment, International Workshop of Forest Landscape Modeling, Beijing, China, 20- 24 June, 2006
109. Qiu, F., K.M. Curtin, R. Briggs, J. McElory, E. Li and Q. Li, 2006. Waste-to-Energy Strategic Geographic Planning Tool, Land Revitalization Summit, Austin, TX, 30 October – 1 November, 2006
110. Fang Qiu, 2006. Application Development with Map Service for Use in Classroom Teaching NASA NEHEA/GEOBRAIN Team Meeting, Greenbelt, MD, 12-13, January, 2006
111. Qiu, F., 2005. Locating Brown Field with Fuzzy Weighted Overlay, American Association of Geographers Annual Conference, Denver, Colorado, April 5- 9, 2005
112. Sun, F, and F. Qiu, 2004. Towards a Sustainable Development of Chongqing Through Improved Water Resource Management Strategies, Inaugural Conference of the Consortium for Western China Development Studies, Chengdu, Sichuan, China, June 22-23, 2004
113. Qiu, F. 2004. Fuzzy Membership Mapping of Land Use and land Cover Using Remote Sensing Image. The International Conference on Resources Development and Ecology Protection in Arid Regions, Urumqi, China, June, 25-30, 2004
114. Qiu, F., and T. Bray, 2003. Design of New Crime Analysis Tools, The American Society of Criminology 55h Annual Meeting, November 19-22, 2003, Denver, Colorado.
115. Lu, H., F. Qiu, and Y. Cheng, 2003. Temporal and Spatial Distributions of Ozone and Asthma, The 23rd Annual ESRI International User Conference, July 7–11, 2003, San Diego, CA
116. Qiu, F., 2003. Spatial Pattern and Causation Analysis of Childhood Cancer in Texas. The 23rd Annual ESRI International User Conference, July 7–11, 2003, San Diego, CA
117. Qiu, F., K. Woller, and R. Briggs 2002. Prediction of Population based on Road Development and Remote Sensing Change Detection Analysis, American Association of Geographers Annual Conference, March 19-23, Los Angeles, CA

118. Qiu, F. 2001. Invited Speaker, Spatial Database and Geospatial Information Sciences, Higher Education Technology Conferences, co-sponsored by Oracle Corporation and Artrium Communications, Inc. Dec. 7, 2001, Richardson, TX
119. Qiu, F., and J. Murdoch, 2001. Invited Speaker, GI Sciences and Public Health, Meeting on Health Survey of the Lower Rio Grande Valley, University of Texas at Brownsville, September 4, 2001, Brownsville, TX
120. Qiu, F., J. Berglund, and J. R. Jensen, 2001. Speckle Noise Reduction for SAR Imagery with an Improved Adaptive Median Filter, ASPRS 2001 Annual Conference, April 23 to 27, 2001, St. Louis, Missouri
121. Qiu, F. 2000. A New Approach for Remote Sensing Land Cover Classification, Presentation in the 2000 GIS Fall Fair, The North Central Texas Council of Governments, September 27, 2000, Dallas, TX
122. Qiu, F. 1999. Remote Sensing Image Classification Based On Automatic Fuzzy Rule Extraction By Integrating Fuzzy Logic And Neural Network Models, Proceedings of ASPRS 1999 Annual Conference (CD-ROM), May 17- 21, 1999, Portland, Oregon.
123. Jensen, J. R., F. Qiu, 1998. A Neural-network Based System for Visual landscape Interpretation using High Resolution Remotely Sensed Image, Proceedings of ASPRS-RTI 1998 Annual Conference (CD-ROM), March 30 - April 3, 1998, Tampa, Florida.
124. Qiu, F. and J. He, 1995. Serious National Disaster Monitoring and Evaluating System. Proceedings of 1995 ESRI User Conference (CD-ROM), May 22-26, 1995, Palm Springs, California, USA.
125. Qiu F. and W. Gao, 1994. Pingxiang Resource Management and Economic Development Information Systems. Proceedings of The First Arc/Info User Conference in China. pp. 221-227, Beijing, September. 14-16, 1994 (Chinese).
126. Qiu F, 1990. Map Display System Design and Implementing for GIS, Excellent Bachelor Thesis of East China Normal University, ECNU, pp. 106-121, (Chinese).

Published Technical Reports:

127. Schill, S., G. Olson, L. Schmidt, F. Qiu, and J. R. Jensen, 2000. Land Management and Appraisal at the Parcel Level Using High Resolution Remote Sensing Data and GIS Modeling Techniques, NASA Affiliated Research Center Final Report. John C. Stennis Space Center, MS, 19pp.
128. Jensen, J. R., J. Berglund, F. Qiu, D. Savercool, and R. E. Godwin, 1998. The zontribution of Active Microwave (RADAR) Remote Sensing to Wetland Delineation, NASA Affiliated Research Center Final Report. John C. Stennis Space Center, MS, 33pp.
129. Jensen, J. R., F. Qiu, and K. Patterson, 1997. Development of Improved Image Classification Algorithms To Extract Quantitative Urban/Suburban Landuse/Land Cover Information from High Spatial Resolution Digital Imagery, NASA Affiliated Research Center Final Report. John C. Stennis Space Center, MS, 20pp.
130. Jensen, J. R., F. Qiu, R. H. Odum, Jr. and S. P. Prisley, 1996. Identification of Forest Cover Types, Age and Density in Southern Brazil Using Landsat Thematic

Mapper Data, NASA Affiliated Research Center Final Report. John C. Stennis
Space Center, MS, 12pp.

EXTERNAL FUNDING FOR ORIGINAL INVESTIGATION:

Grants/contracts awarded:

- 2018 CNH-L: People, Place, and Payments in Complex Human-Environment Systems, Li An, Fang Qiu, Douglas A. Stow, Rebecca Lewison, Jennifer E. Glick, funded by National Science Foundation (NSF1826839), \$1,450,000 (\$158,000 for UTD), 9/1/2018-2/28/2023.
- 2017 FRAMME Replacement Project: LiDAR Proof-of-Concept Data Validation, Funded by Oncor Electric Delivery Company LLC. \$78,744. 04/24/2017-8/31/2017.
- 2008 “Urban Forest Inventory Based on Airborne LIDAR and Hyperspectral Imagery” funded by Dallas Urban Forest Advisory Committee, \$50,000. 9/1/2008- 8/31/2009.
- 2005 “Efficient Spatial-Temporal Analysis of Environment and Public Health Related Data”, with W. Wu and E. Sha, funded by *National Science Foundation* (NSF0513669), \$397,504.00, 9/1/2005 – 8/31/2008.
- 2005 “Genetic, Behavioral and Lifestyle Risk Factors for Complications of Type 2 Diabetes in a Mexican American Population in the Lower Rio Grande Valley”, with J. McCormick, funded by *Centers for Disease Control and Prevention* (CDC). \$496,000, (\$42,687 Subcontract to UTD), 8/1/2005-8/1/2006.
- 2005 “Waste-To-Energy: Strategic Geographic Planning Tool Development, Phase II”, with K. Curtin and R. Briggs. Funded by *Environmental Protection Agency* (EPA). \$110,000. 9/1/2005-12/31/2006.
- 2004 “Waste-To-Energy: Strategic Geographic Planning Tool Development”, with R. Briggs, and K. Curtin. Funded by *Environmental Protection Agency* (EPA). \$65,000. 10/1/2004-12/31/2005.
- 2004 "NASA EOS Higher-Education Alliance: Mobilization of NASA EOS Data and Information through Web Services and Knowledge Management Technology for Higher Education Teaching and Research", with L. Di, Z. Xia and W. Luo, funded by the *National Aeronautics and Space Administration* (NASA:E6001682). \$3,000,000 (\$70,000 Subcontract to UTD), 2/1/2004-1/31/2009.
- 2004 “Develop Internet Map Mapping Sites Using ESRI ArcIMS Software for the City of Rowlett”, PI. Funded by *City of Rowlett*, TX. \$6,000, 2004-2005.
- 2001 Center of Excellence in Spatial Information Technology, Oracle Corporation Award, Software donation worth of \$304,695.00. 07/01/2002.

Proposals submitted but not funded:

- 2016 “BIGDATA: Collaborative Research: IA: Innovative Methodology for Scalable and Efficient High Resolution Sensor Data Fusion and Analytics”, National Science Foundation, Fang Qiu, 09/01/2016-08/31/2019, \$578,510.
- 2015 INtegrated Software Platform for HIGH Resolution Earth-observation Data

- (INSPIRED), National Science Foundation, Fang Qiu and Yifei Lou, 01/01/2016-01/01/2019, \$549,667
- 2014 “Fusion of Imagery and LiDAR Based on Curve Matching (FILM)”, Fang Qiu and Yifei Lou, National Aeronautics and Space Administration (NASA). 04/01/2015-03/31/2018, \$503, 048. Declined.
- 2014 “IBSS: Leveraging an interdisciplinary social observatory to define and identify social effects on randomized treatment interventions”, Tammy Leonard and Fang Qiu, National Science Foundation (NSF). 10/1/2015-9/30/2018, \$997,151. Declined.
- 2014 “Center for System-Level Modeling of Community Resiliency-SECURE Center”, May Yuan, Dan Griffith, and Fang Qiu, National Institute of Standards and Technology (NIST). 12/12/2014-12/11/2019, \$1,941,501, Declined.
- 2013 “IBSS: Leveraging an interdisciplinary social observatory to define neighborhoods and identify social effects on randomized treatment interventions”, Tammy Leonard, Sandi Pruitt, Catherine Eckel, Alex Piquero, Fang Qiu. National Science Foundation (NSF). 10/1/2014-9/30/2017, \$989,780. Declined.
- 2013 “The Importance of Geographic and Social Context in Understanding Human Well-Being”, James Murdoch, Sandi Pruitt, Alex Piquero, Fang Qiu, and Catherine Eckel, National Science Foundation (NSF). 10/01/2013 – 9/31/2016, \$902,4888.86. Declined.
- 2012 “PIRE: Asia-Pacific Collaborative Research and Education Network (APCREN) for Sustaining Biodiversity and Ecosystem Services”, Liping Di, Fang Qiu, etc. National Sciences Foundation (NSF). 1/1/2013-12/31/2017, \$5,000,000. Declined.
- 2012 “Transforming Earth Science Education through GeoBrain CI-based Cyberlearning Approach”, Fang Qiu, National Sciences Foundation (NSF) (Contract via George Mason University), 5/1/2013-4/30/2017, \$120,000. Declined.
- 2011 “CI-TEAM Implementation Project: Innovative Multidisciplinary Earth Science Education through GeoBrain”, Fang Qiu, National Sciences Foundation (NSF) (Contract via George Mason University), 1/1/2012-12/31/2013,\$37,999. Declined.
- 2011 “Meeting challenges of geography education in Texas with free GIS resources”, Fang Qiu, Bryan Chastain, Texas Fund for Geography Grant, 1/1/2012-2/31/2013, \$30,000. Declined.
- 2011 “Automating urban forest inventory by parallel processing of massive 3-dimensional laser scanning and hyperspectral data”, Fang Qiu, EPPS School of UTD, 6/1/2012-5-30/2013, \$5,000. Declined.
- 2010 “CI-TEAM Implementation Project: Innovative Multi-disciplinary Earth Science Education through GeoBrain”, Fang Qiu, National Sciences Foundation (Contract via George Mason University), 1/1/2011-12/31/2013, \$37,998. Declined.
- 2010 “Object based HSI Classification using Neuro-fuzzy Systems and a Distribution Free Model”, Fang Qiu, Yongwan Chun, Denis Dean, 2010 NGA

- University Research Initiatives (NURI), 10/22/2010-10/23/2012, \$748,881. Declined.
- 2007 “CI-TEAM Implementation Project: Collaborative Research - A GEOSS Higher Education Portal”, Fang Qiu, National Sciences Foundation (Contract via George Mason University), 5/1/2008-4/30/2011, \$29,997. Declined.
- 2007 “Compstat: A Simulation Study for Best Model Practices”, Alex de Carmen, Karen L. Hayslett-McCall, Fang Qiu, etc. National Institute of Justice, 10/7/2007-10/9/2009, \$269,059. Declined.
- 2007 “Determining Alternative Police Patterns for Optimal Deployment (PPOD): Flexible Response through the Integration of GIS Technology, Linear Programming Optimization Methods, and Police Intelligence”, Kevin M. Curtin, Karen Hayslett-McCall, Fang Qiu, National Institute of Justice, 1/7/2008-5/9/2010, \$347,567. Declined.
- 2006 “CI-TEAM Implementation Project: Collaborative Research - A GEOSS Higher Education Portal”, Fang Qiu, National Sciences Foundation (Contract via George Mason University), 5/1/2008-4/30/2011, \$29,997. Declined.
- 2006 “Determining Alternative Optimal Police Deployment Patterns for Flexible Response through the Integration of Geographic Information Systems Technology, Linear Programming Optimization Methods, and Police Needs Assessment”, Kevin M. Curtin, Karen Hayslett-McCall, Fang Qiu, National Institute of Justice, 6/7/2006-5/9/2008, \$310,306. Declined.
- 2006 “Ontology-Driven Modeling and Mining of Geospatial Data Using Algebraic Geometric Methods”, Bhavani Thuraisingharn, Latifur Khan, Sergey Bereg, Fang Qiu, etc. National Geospatial-Intelligence Agency University Research Initiatives, 8/1/2006 – 8/1/2009, \$449,036. Declined.
- 2006 “Optimizing Safety on Campus: Covering Women Against Crime”, Kevin M. Curtin, Karen Hayslett-McCall, Fang Qiu, Department of Justice, 6/1/2006-5/31/2008, \$199,755. Declined.
- 2005 “Using GIS to Assess Regional Landscape Character and Water Quality in the White Rock Creek”, Fang Qiu, Michael Tiefelsdorf, National Sciences Foundation (Contract via University of Texas at Arlington), \$26,820.
- 2005 “Interactions Between Air Pollution and Human Capital”, Steven Rivkin, Janet Currie, Fang Qiu, etc., National Sciences Foundation, 9/1/2005-9/1/2008, \$749,043. Declined.
- 2004 “Efficient Spatial-Temporal Analysis of Environment and Public Health Related Data”, Weili Wu, Fang Qiu, Edwin H Sha, National Sciences Foundation, 9/1/2004-9/1/2007, \$708,726. Declined.
- 2003 “Efficient Spatial-Temporal Analysis of Environment and Public Health Related Data”, Weili Wu, Fang Qiu, Edwin H Sha, National Institute of Justice, 9/1/2004-9/1/2007, \$708,726. Declined.
- 2003 “A Geospatial Investigation of Crime Rates, Beat Boundaries, and the Journey to Crime”, Karen L. Hayslett-McCall, Timothy M. Bray, Kevin Curtin, Fang Qiu, et., National Institute of Justice, 9/1/2003-8/31/2004, \$122,881. Declined.
- 2002 “ITR: Efficient Spatia-temporal Models of Classification and Prediction for Geospatial Data”, Weili Wu, Fang Qiu, Edwin H Sha, National Sciences

- Foundation, 7/1/2003-7/1/2006, \$500,000. Declined.
- 2002 “NASA EOS Higer-Education Alliance: Mobilization of NASA EOS Data and information through Web Service and Knowledge Management Technolgoy for Higher-Education Teching and Research”, Fang Qiu, NASA, 1/1/2003-12/31/2007, \$110,510. Declined.
- 2001 “Mining Association Rules from Spatial Database using a Parallel Neuro-fuzzy System”, Fang Qiu, Edwin H Sha, National Sciences Foundation, 9/1/2002-9/1/2005, \$500,000. Declined.

TEACHING:

Awards to Advisees

1. Yuhong Zhou, 2015, 1st Place, Student Honors Paper Competition, Remote Sensing Specialty Group (RSSG), American Association of Geographers, Chicago, IL.
2. Yuhong Zhou, 2015, EPPS Outstanding Teaching Comet Award, 2014-2015, University of Texas at Dallas.
3. Harini Sridharan, 2013, Early Career Best Paper Award, Remote Sensing Specialty Group, American Association of Geographers, Los Angeles, CA.
4. Caiyun Zhang, 2013, 2013 ERDAS Award for the Best Scientific Paper in Remote Sensing, 1st Place, American Society of Photogrammetry and Remote Sensing.
5. Caiyun Zhang, 2012, Early Career Best Paper Award, Remote Sensing Specialty Group, American Association of Geographers, New York City, NY.
6. Caiyun Zhang, 2011. Student Honors Paper Competition Award, Remote Sensing Specialty Group, American Association of Geographers, Seattle, WA.
7. Harini Sridharan, 2011, Best Student Illustrative Paper Award, American Association of Geographers, Seattle, WA.
8. Harini Sridharan, 2011, Research Award, DigitalGlobe 8-band Research Challenge, Geospatial World Forum.
9. Bryan Chastain, 2008, Best Student Paper Competition Award, Geoinformatics 2008.

Postdoc Supervision

1. Yunwei Tang, 2018-2019, Dr. Tang is an Assistant Professor at the Institute of Remote Sensing and Digital Earth, Beijing, China.
2. Shuangning Zheng, 2017-2018, Dr. Zheng is an Associate Professor at The Institute of Urban Environment, Chinese Academy of Sciences, Xiamen, China.
3. Haitao Lyu, 2017-2018, Dr. Lyu is an Assistant Professor at Jiujiang University in Jiangxi Province, China.
4. Hu Ding, 2017-2018, Dr. Ding is a Ph.D. candidate at Nanjing Normal University, China.
5. Xiwang Zhang, 2016-2017, Dr. Zhang is an Associate Professor at Henan University, China.

6. Xiaoyan Liu, 2016-2017, Dr. Xiaoyan Liu is now a Professor at Nanjing Normal University, China.
7. Hong Zhang, 2016-2017, Dr. Hong Zhang is now a Professor at Nanjing Normal University, China.
8. Jiangzhong Guo, 2014-2015. Dr. Guo got this Ph.D. from Wu Han university.
9. Jun Zhang, 2014- 2015. Dr. Zhang got his Ph.D. from Middle China Agricultural University
10. Anthony Cummings, 2013 – 2014. Dr. Cummings obtained his Ph.D. from Syracuse University
11. Huiqiang Xin, 2013 – 2014. Dr. Xing got his Ph.D. from Peking University.
12. Renhui Liu, 2013 – 2014. Dr. Liu got his Ph.D. from Harbin Institute of Technology.
13. Yanghong Zhang, 2011-2012. Dr. Zhang obtained her Ph.D. from Chinese Academy of Sciences. She is now working with Jiling University.
14. Shuang Li, 2009-2011, Dr. Li got his Ph.D. from Chinese Academy of Sciences and Li is now working with NASA Ames Research Center

Ph.D. Dissertation Supervision (Committee Chairs)

1. Fan Shi, 2020, Dissertation on “Remote Sensing Videography: Potentials, Methods, And Applications”. Graduate in Fall 2020. Dr. Shi is now with Henan University of Technology as an Assistant Professor.
2. Xiao Li, 2020, Dissertation on “Automatic Building Footprint Generation From Airborne Lidar Point.” Graduate in Spring 2020. Dr. Xiao Li is now with Inceptio Technology as Software Engineer.
3. Ramakrishna S. Mulukutla, 2019, Dissertation on “Powerline Feature Detection and Extraction Using Photon LiDAR Point Clouds.” Graduated in Summer 2019. Dr. Mulukutla is now with Oncor Electric Delivery Company LLC. as a Principal Consultant via Capco.
4. Mansour Salem Alhumimidi, Dissertation on “Hyperspectral imagery and terrestrial laser scanning integrated with surface and subsurface data sets for the geological analysis of the Permian carbonates of the Khuff formation – Saudi Arabia, 2017. Dr. Alhumimidi is now an Assistant Professor at National Center for Oil and Gas Technology, King Abdulaziz City for Science and Technology.
5. Feng Ni, Dissertation on “High Performance Computing With Remotely Sensed Spatial Big Data Using Many-Core Graphics Unit (GPU). Graduated in Summer 2016. Dr. Feng Ni is now with Spatial Front, Inc. as a GIS Developer.
6. Yuhong Zhou, Dissertation on “Fusion of Hyperspatial Imagery and LiDAR waveform at the Object Level For Land Cover Classification Using Curve Matching Approaches. Graduated in Spring 2015. Yuhong Zhou now is a Post-Doc Researcher at UT Southwest Medical Center.
7. Bo Chen. Dissertation on “Research on Region-based Segmentation Method of Remote Sensing Image”. Graduated in Spring 2015 at Chinese Academy of Sciences. I am co-Chair for his dissertation committee.
8. Harini Sridharan, Dissertation on “Object-Based Approaches to Image Classification for Hyperspatial and Hyperspectral Data”. Graduated in summer,

2012. Harini is now working as postdoc fellow at the Oak Ridge National Laboratory.
9. Bryan Chastain, Dissertation on “A Hybrid CA/MAS Model of Residential Burglary with AHP and GA-based Calibration”, graduated in the summer, 2011. Bryan is now a senior lecture at University of Texas at Dallas.
 10. Jie Chang, Dissertation on “Segmentation-Based Filtering and Object-Based Feature Extraction from Airborne LiDAR Point Cloud Data”. Graduated in summer, 2011. Jie Chang is now working at Earth System Research Institute (ESRI) in Redlands, California
 11. Caiyun Zhang, Dissertation on “Urban Forest Inventory Using Airborne LiDAR Data and Hyperspectral Imagery”. Graduated in summer, 2010. Caiyun Zhang is now a tenure track Assistant Professor at the Florida Atlantic University.

Ph.D. Dissertation Committee Served

1. Yogita Yashawant Karale, Dissertation on “Site-specific PM2.5 estimation at three urban scales”. Graduate in Summer 2021.
2. Tian Hang, Dissertation on “Wage determinants of college graduates in China: A case study of Nanjing”. Graduated in Summer 2021.
3. Xiaohe Yu, Dissertation on “Cloud Detection and PM2.5 Estimation using Machine Learning”. Graduate in Spring 2021.
4. Lan Hu, Dissertation on “Negative Spatial Autocorrelation and its impacts on georeferenced data analysis: with case studies of cancer incidents”. Graduated in Spring 2020.
5. Samyah Refadah, Dissertation on “Digital elevation model and drainage basin delineation”. Graduated in Fall, 2018.
6. Xiaojun Pu, Dissertation on “Three papers addressing migration induced autocorrelation in spatial analysis within a Bayesian modeling framework”. Graduate in Fall, 2018.
7. E Scott Morris. Dissertation on “Fractal Volume of An Urban Environment: 3-Dimensional Space Filling of Dallas, Texas”. Graduated in Spring, 2015.
8. Fernando J Mendoza-Jara. Dissertation on “A Forest Optimization Model to Reduce the Risk of Hurricanes in Eastern Nicaragua”. Graduated in Fall, 2014. Fernando is now working with National Agrarian University
9. Mofareh Qoradi. Dissertation on “GIS-based Cartographic Design: Development and Evaluation of the Tourism Symbols of the National Park Service (NPS) and Saudi Commission for Tourism and Antiquities (SCTA)”. Graduated in Fall, 2014.
10. Scoot Ellis Horn. Dissertation on “Finding hidden road segments by determining a cost surface from visible proximal segments: discovering the limits of Dean’s approach”. Graduated in Spring, 2013
11. Melissa J. Rura. Dissertation on “Eigenvector Spatial Filtering for Image Analysis: An Efficient Algorithm”. Graduated in fall, 2010. Melissa is now with University of Michigan Medical School
12. Gene A. Feighny. Dissertation on “A Predictive Terrestrial Clutter Model For Ground-To-Ground Automated Target Detection Applications”. Graduated in Fall, 2010. Gene is now with Raytheon.

13. Mohammed Saad Alfarhan. Dissertation on “Geoscience information systems (GeoIS): A Geospatial paradigm for real and virtual 3D worlds”. Graduated in Fall, 2009. Mohammed is now working with Saudi government.

GIS Master Student Supervision

1. Jingnan Bi, Spring 2020, A Spatial-Temporal Pattern Analysis of Covid-19: Lessons Learned from China.
2. Nathan Fleischman, Spring 2020, GIS Analysis of Pine Beetle Infestation in the US using Machine Learning.
3. Boning Liu, Fall 2019: Developing Tools to Achieve Utility Networks Analysis using Python Script for the City of Rowlett’s Public Works Department. Boning now is a GIS Technician in the City of Rowlett.
4. Minxuan Wei, Fall 2018: LiDAR data ground classification using progressive TIN. She is a Data Analyst in Transect, an environmental due diligence company.
5. Chengzhe Qin, Fall 2018: Web-based Golf Green and Hole Management System. Chengzhe is now a GIS analyst with Advocate for Community Transformation
6. Wenzhen Yi, Summer 2018: Detection of vegetation encroachment to powerlines using LiDAR data. Wenzhen is now with Power China East China Engineering Corporation.
7. Maram Alrehaili, Summer 2018: Estimation of Ground-level PM2.5 Concentration Cover over Beijing and Tianjin region Using CIIRS DNB data, Maram is now a Ph.D. student at the University of Florida.
8. Houyi Liu, Summer 2018: 3D Residential Building Rooftop Modeling from LiDAR data. Houyi is now a graduate student in the Computer Sciences Department at the University of Texas at Dallas.
9. David Lindsey, Spring 2018: Automation and Flexibility with Arcpy: A stand-Alone Python Tool for retrieving and analyzing natural hazard data. David is a 9-1-1 GIS Technician II at North Central Texas Council of Governments.
10. Jian Wang, Spring 2018: GIS-Based Green and Hole Management. Jian is working at City of Missouri City as a GIS Specialist II.
11. Jinghan Qu, Fall 2017: Classification of Utility Pole from LiDAR Data. Jinghan is currently working with Atmos Energy.
12. Michael Chen, Fall 2016: Developing a KL Divergence Classifier for Crop classification using spectral-temporal information of Landsat 8 Data. Michael is currently working at U.S. Census Bureau.
13. Shuang Liang, Summer 2017: The Development of a Quality Analysis and Quality Control (QA/QC) System for Both Linear and Geiger Mode LiDAR Datasets. Shuang is now a GIS analyst in City of Rowlett
14. Riheng Liu, Summer 2017: Segment-based LiDAR Data Classification using Fractal.
15. Yiqi Dong, Fall 2016: Mapping urban green view: A vector-based 3-D Batch Modeling Approach.
16. Heba Baamour, Fall 2016: Rainfall and vegetation: which one is more important for sedimentation?

17. Cheng Zhang, Summer 2016: A study on matching strategies and algorithms for hyperspectral image analysis. Cheng Zhang is now a GIS Analyst at Davis Demographics.
18. Labanya Banerjee, Spring 2016: Studying the effect of temperature and land cover on surface urban heat islands: A case study of downtown Dallas
19. Fan Shi, Spring 2015: Object-based Classification of Worldview-2 Data Using Semi-Variograms. Fan Shi is now a Ph.D. student at the University of Texas at Dallas
20. Chaowei Wang, Spring 2015: Developing a Hyperspatial Image Classifier Based on Waveform Decomposition with a Case Study Using Worldview-2 Data.
21. Caiyi Zhong, Spring 2015: Railroad Network Realignments in FRA's Rail Network Consolidating Project.
22. Huawei Yin, Summer 2014: A Spatially disaggregated areal-interpolation for Income analysis and Real Estate application. Huawei is working in Technology Officer/GIS Associate at Republic Property Group.
23. Brett Gaines, Fall 2013: Automated Method for Urban Treetop Delineation using 4-band Aerial Imagery and Airborne LiDAR. Brett is working in Lockheed Martin.
24. Adam Yeeles, Fall 2013: Spectral Index Correlates of Variation in Air Temperature in an Urban Metropolitan Region. Adam is working on his Ph.D. at UTD.
25. Lu Chen, Fall 2013, Image classification using neuro-fuzzy network and SVM. Lu Chen is now with Layne Christensen Construction.
26. Inga Myronova, Fall 2013: Urban forest inventory using hyper spectral imagery.
27. Xiang Li, Fall, 2012, "Geographic profiling and crime analysis", Xiang is now work in Beijing.
28. Chen Yuan, Spring, 2012, "High performance computing for massive LiDAR data processing with optimized GPU parallel programming". Thesis.
29. Yao Shen, Spring, 2012, "The relationship between treed neighborhoods and residential values", Yao is now a GIS analyst with City of Dallas.
30. Wenyuan Yin, Spring, 2012, "Interactive LiDAR Data Visualization and Post Segmentation Classification". Wenyuan is now a GIS Analyst/Business Analyst at Nerium International
31. Feng Ni, Spring, 2011, "Object-based Urban Feature Extraction from LiDAR-derived Raster". Feng is continuing his study in UTD as a Ph.D. student.
32. Longbin Zhao, Spring, 2010, "E-Plan Real-Time Chemical Plume Mapping & Geographic Information Reporting System", Longbin Zhao is with China Mobile, the biggest the wireless company in China.
33. Caiyun Zhang, Summer, 2009, "Unsupervised Hyperspectral Image classification using a Neuro-Fuzzy System", Caiyun is now a tenure track Assistant Professor at the Florida Atlantic University
34. Haiting Huang, Summer, 2009, "Build Event Tracking System with ARCGIS Server Technology", Haiting is working as a GIS Analyst in the City of Richardson

35. Harini Sridharan, Summer, 2009, "'Population Estimation - A Third Dimensional Perspective". Harini is now working on her Ph.D. degree at the University of Texas at Dallas.
36. Huajun Chen, Spring, 2009, "Point Based Areal Interpolation Using K-nearest Neighbors", Huajun is now working at the City of Dallas as a GIS Programmer
37. Chanyalew Girmay, "Teff Crop Suitability Analysis based on an Improved Fuzzy Linguistic Ordered Weight Average (FLOWA)"
38. Fernando Jose Mendoza Jara, Summer, 2008, "A GIS based Spatially Explicit Model of Seed Dispersal by Zoochory Agents", Fernando is now a faculty member at Universidad Nacional Agraria, Nicaragua.
39. Zhixiang Lu, Summer, 2008, "A Construction Of 3d Building Models Using Lidar Data", Zhixiang is now working as a research associate in TSP at UT Dallas, TX
40. Shaofei Chen, Spring, 2008, "Estimating population at census block level using object oriented classification", Shaofei is now a Ph.D. student at UT Dallas.
41. Tanakorn Jangkakul, Fall, 2007, "A web-Service Electrical GIS MapServer Via Open Source GIS Software", Tanakorn is now working with DataVoice International Inc. at Allen, TX
42. Jianghong Li, Summer, 2007, "Automated Property Notification & Online Updating of Appraisal Data: A GIS Solution for Urban Planning". Jianghong is working as a GIS Programmer/Analysis at the City of Rowlett, TX
43. Guang Xiao, Spring, 2007, "The Effects of Air Pollution and Socio-economic Status on the Asthma Admission Rates to the Los Angeles Hospitals". Guang is working as an Application Manager at Spatial Data Inc., at Irving, TX.
44. Jian Hang, Spring, 2006, "Online Distributed GIS System Based on Web Service and ArcGIS Server". Jian is working as a GIS Programmer in Environment System Research Institute (ESRI) at Redlands, CA.
45. Jeff Bourdier, Summer, 2006, "Areal Interpolation Methods using Land Cover and Street Data". Jeff is now a GIS analyst at TCEQ.
46. Sulafa Ibrahim, Fall, 2005, "Feature Extraction and 3d City Modeling Using Airborne LIDAR and High-Resolution Digital Orthophotographs", Sulafa is working as a GIS staff at the City of Dallas.
47. Georgeta Baci, Fall, 2005, "Hydrological Analysis of Collin County, TX". Georgeta is working with City of Plano's Planning Department as a GIS analyst.
48. Stace Maple, Summer, 2005, "Visual Prominence: A topographic variable based upon human perception of the landscape, and its application to archaeological data". Stace is working at the Yale University as a GIS specialist.
49. Xiaogang Yang, Summer, 2005, "Spatial-Temporal Interpolation of Temperature Using Artificial Neural Networks". Xiaogang is working with City of Allen as a GIS analyst.
50. George Madrid, Spring, 2005, "Locating Potential Brownfield Areas with Fuzzy and Boolean Weighted Overlay in New Orleans" George is now a Ph.D. student at UTD GIS program
51. Zhijun Zou, Spring, 2005, "Implementing Agent-based Modeling in a GIS Environment". Zhijun is working at the City of Arlington, TX as a GIS Developer.

52. Pathik Thakkar, Fall, 2004, "Subpixel Image Analysis with Neural-Fuzzy Classifier". Pathik is working with Environment Research System Institute (ESRI) at Redland, CA as Software Developer II.
53. Capton Siluvairajan, Summer, 2004, "Extending the ArcObjects Programming Model by Implementing Spatial Statistics Using .NET In a Tightly Coupled GIS Environment", Capton is working with Cambridge Systematics Inc. at Tallahassee, FL as a GIS programmer and transportation data modeler.
54. Mohammed S. Alfarhan, Spring, 2003, "Environmental Modeling and Simulation: Seed Dispersal Example". Mohammed is now returning to University of Texas at Dallas to work on his Ph.D. in Geospatial Information Sciences.
55. Marisa Galimbertti, Spring, 2003, "Texas Childhood Cancer Study with GIS and Spatial Data Analysis Approach". She is working with Rural and Community Health Institute, at the Health Science Center of The Texas A&M University.
56. Hua Lu, Fall, 2002, "Spatial and Temporal Relationship of Asthma and Ozone". Hua is working with Emergent Technologies, Inc., CDC Information Technology Contract at Atlanta, GA.
57. Kwabena Prakah-Asante, Spring, 2002, "Application of Spatial Interpolation Techniques and Visual Basic to Obtain Surfaces of Ozone Pollution Concentrations". K.B. went to work with the City of Riverside's Police Department, CA as a GIS analyst.
58. Kevin Woller, Spring, 2001, GIS Master Project, "Urban Growth Detection from Remote Sensing". Kevin is working with Pioneer Natural Resources, USA, Inc. at Irving, TX.

Classroom Teaching

Semester	Prefix	Number	Course Name	Enrollment
University of Texas at Dallas				
2022 Fall	EPPS2305		Spatial Thinking	15
	GISC 6389		GIS Master's Research	1
	GISC 4v98		Internship	1
	GISC 8v29		Research in GIS	3
Summer	EPPS 4317/6317		Intro. Python Programming	25
	GISC 8v27		Internship in GIS	1
	GISC 8v29		Research in GIS	2
Spring	GISC 6384		Advanced GIS	18
	GISC 6375		Advanced Remote Sensing	2
	GISC 8v29		Research in GIS	3
2021 Fall	GISC 4363/6363		Internet Mapping	24
	GISC 6389		GIS Master's Research	1
	GISC 4v98		Internship	1
	GISC 8v29		Research in GIS	3
Summer	GISC 6v01		Independent Study in GIS	4
Spring	GISC 6384		Advanced GIS	17
	GISC 6375		Advanced Remote Sensing	8
	GISC 6389		GIS Master's Research	5
	GISC 4v98		Internship	1
2020 Fall	GISC 8v29		Research in GIS	1
	GISC 4363/6363		Internet Mapping	20

	GISC 6389	GIS Master's Research	1
	GISC 4v98	Internship	1
	GISC 8v29	Research in GIS	2
Summer	GISC 8v29	Research in GIS	4
Spring	GISC 6384	Advanced GIS	21
	GISC 6375	Advanced Remote Sensing	6
	GISC 4v97	Independent Study in GIS	1
	GISC 4v98	Internship	3
	GISC 6v01	Independent Study in GIS	2
	GISC 8v29	Research in GIS	1
	GISC 8v99	Dissertation	1
2019 Fall	GISC 4364/6363	Internet Mapping	18
	GISC 4V98	Internship	1
	GISC 6V01	Independent Study in GIS	2
	GISC 8V27	Internship in GIS	2
	GISC 8V29	Research in GIS	2
Summer	GISC 4V96/6379	Drone and Remote Sensing	2
	GISC 4V98	Internship	1
	GISC 8V27	Internship in GIS	1
Spring	GISC 6384	Advanced GIS	19
	GISC 7365	Advanced Remote Sensing	7
	GISC 4V98	Internship	2
	GISC 6V01	Independent Study in GIS	1
	GISC 8V27	Internship in GIS	4
	GISC 8V29	Research in GIS	1
	GISC 8V99	Dissertation	2
2018 Fall	GISC 7363	Internet Mapping and Information Processing	13
	GISC 4V98	Internship	5
	GISC 6V01	Independent Study in GIS	5
	GISC 8V27	Internship in GIS	2
	GISC 8V29	Research in GIS	1
Summer	GISC 6389	GIS Master's Research	2
	GISC 4V98	Internship	2
	GISC 6V01	Independent Study in GIS	7
	GISC 8V27	Internship in GIS	6
Spring	GISC 6384	Advanced GIS	24
	GISC 7365	Advanced Remote Sensing	13
	GISC 6389	GIS Master's Research	21
	GISC 4V98	Internship	1
	GISC 6V01	Independent Study in GIS	3
	GISC 8V27	Internship in GIS	8
	GISC 8V29	Research in GIS	1
	GISC 8V99	Dissertation	1
2017 Fall	GISC 6V01	Independent Study in GIS	3
Summer	GISC 6389	GIS Master's Research	2
Spring	GISC 7365	Advanced Remote Sensing	19
	GISC 6384	Advanced GIS	49
	GISC 3689	GIS Master's Research	6

2016 Fall	GISC 3689	GIS Master's Research	5
Summer	GISC 6389	GIS Master's Research	1
Spring	GISC 7365	Advanced Remote Sensing	13
	GISC 6384	Advanced GIS	30
2015 Fall	GISC 3689	GIS Master's Research	5
	GISC 4V98	Internship	1
	GISC 6V01	Independent Study in GIS	3
	GISC 8V99	Dissertation	1
Summer	GISC 6389	GIS Master's Research	2
	GISC 4V98	Internship	1
	GISC 8V27	Internship in GIS	2
Spring	GISC 7365	Advanced Remote Sensing	9
	GISC 6384	Advanced GIS	36
	GISC 6V01	Independent Study in GIS	4
	GISC 8V27	Internship in GIS	3
	GISC 8V29	Research in GIS	1
	GISC 8V99	Dissertation	1
2014 Fall	GISC 4V98	Internship	1
	GISC 6V01	Independent Study in GIS	2
	GISC 6389	GIS Master's Research	6
	GISC 8V27	Internship in GIS	1
	GISC 8V29	Research in GIS	1
	GISC 8V99	Dissertation	1
Summer	GISC 6V01	Remote Sensing Workshop	5
	GISC 6389	GIS Master's Research	1
	GISC 8V27	Internship in GIS	2
Spring	GISC 6384	Spatial Analysis and Modeling	30
	GISC 6389	GIS Master's Research	9
	GISC 6V01	Independent Study in GIS	1
	GISC 8V27	Internship in GIS	3
	GISC 8V29	Research in GIS	1
	GISC 8V99	Dissertation	1
2013 Fall	GISC 7365	RS Digital Image Processing	10
	GISC 6389	GIS Master's Research	7
	GISC 8V27	Internship in GIS	3
	GISC 8V29	Research in GIS	2
Summer	GISC 6V01	Remote Sensing Workshop	5
	GISC 4V98	Internship	1
	GISC 8V27	Internship in GIS	3
	GISC 8V29	Research in GIS	2
Spring	GISC 6384	Spatial Analysis and Modeling	19
	GISC 7365	Applied Remote Sensing	14
	GISC 6V01	Independent Study in GIS	2
	GISC 8V27	Internship in GIS	3
	GISC 8V29	Research in GIS	2
2012 Fall	GISC 7365	RS Digital Image Processing	13

		GISC 5317	Computer Programming For GIS	28
Summer		GISC 6V01	Remote Sensing Workshop	5
Spring		GISC 6384	Spatial Analysis and Modeling	25
		GISC 7365	Applied Remote Sensing	8
2011 Fall		GISC 7365	Remote Sensing Digital Image Processing	11
		GISC 5317	Computer Programming For GIS	25
Summer		GISC 7367	Remote Sensing Workshop	7
Spring		GISC 6384	Spatial Analysis and Modeling	17
		GISC 7365	Remote Sensing Digital Image Processing	17
2010 Fall		GISC 7366	Applied Remote Sensing	12
		GISC 5317	Computer Programming For GIS	10
Summer		GISC 7367	Remote Sensing Workshop	6
Spring		GISC 6384	Spatial Analysis and Modeling	17
		GISC 7365	Remote Sensing Digital Image Processing	17
2009 Fall		GISC 7366	Applied Remote Sensing	7
		GISC 5317	Computer Programming For GIS	19
Summer		GISC 7367	Remote Sensing Workshop	3
Spring		GISC 6384	Spatial Analysis and Modeling	22
		GISC 7365	Remote Sensing Digital Image Processing	16
2008 Fall		GISC 7366	Applied Remote Sensing	12
		GISC 5317	Computer Programming For GIS	25
Summer		GISC 7367	Remote Sensing Workshop	7
Spring		GISC 6384	Spatial Analysis and Modeling	25
		GISC 7365	Remote Sensing Digital Image Processing	22
2007 Fall		GISC 7366	Applied Remote Sensing	8
		GISC 5317	Computer Programming For GIS	18
Summer		GISC 7367	Remote Sensing Workshop	8
Spring		GISC 6384	Spatial Analysis and Modeling	25
		GISC 6388	GIS Application Software Development	12
2006 Fall		GISC 7365	Remote Sensing Digital Image Processing	11
		GISC 5317	Computer Programming For GIS	26
Summer		GISC 6379	Internet Mapping and Information Processing	19
Spring		GISC 6384	Spatial Analysis and Modeling	12
		GISC 6384	Spatial Analysis and Modeling	19
2005 Fall		GISC 5317	Computer Programming for GIS	24
		GISC 7365	Remote Sensing Digital Image Processing	11
Summer		GISC 6379	Internet Mapping and Information Processing	21
Spring		GISC 6384	Spatial Analysis and Modeling	13
		GISC 6384	Spatial Analysis and Modeling	15
2004 Fall		GISC 5317	Computer Programming for GIS	17
		GISC 7365	Remote Sensing Digital Image Processing	10
Summer		GISC 6379	Internet Mapping and Information Processing	16
Spring		GISC 5317	Computer Programming for GIS	17
		GISC 6384	Spatial Analysis and Modeling	25
2003 Summer		GISC 7363	Internet Mapping and Information Processing	15
Spring		GISC 6384	Spatial Analysis and Modeling	18

	GISC 7366	Applied Remote Sensing	7
2002 Fall	GISC 5317	Visual Basic Programming for GIS	19
	GISC 7365	Remote Sensing Digital Image Processing	7
Summer	PEOC 6379	Internet Mapping and Information Processing	9
Spring	PEOC 6379	Internet Mapping and Information Processing	14
	PEOC 6384	Spatial Analysis,	19
2001 Fall	PEOC 6379	Visual Basic Programming for GIS,	10
	PEOC 6379	Remote Sensing of Urban and Environment	5
	PEOC 6379	Geographic Information System Master's Project	6
Summer	PEOC 6379	Digital Processing of Remote Sensing Imagery	10
	PEOC 6387	Geographic Information Systems Workshop	11
Spring	PEOC 6384	Spatial Analysis	16
	PEOC 6382	Applied GIS Software	10
2000 Fall	PEOC 6386	Urban and Environmental Application of GIS	5

University of South Carolina

1999 Summer	GEOG 363	Geographic Information Systems	20
Spring	GEOG 141	Earth From Above	21

Administration and Curricular Development:

2013- Present	Head, Geospatial Information Sciences, University of Texas at Dallas		
2007-2018	Coordinator, Remote Sensing Graduate Certificate Program, University of Texas at Dallas		
2002	Graduate Certificate in Remote Sensing, Curriculum Development, University of Texas at Dallas		
2001	Ph. D. in Geographic Information Sciences, Curriculum Development		
2000	Master in Geographic Information Sciences, Curriculum Development		

PROFESSIONAL SERVICE

2022	Member, Search Committee for Associate Professor of Instruction in GIS, Economic, Political and Policy Sciences		
	Chair, Search Committee for Visiting Assistant Professor in GIS, Economic, Political and Policy Sciences		
	Member, The Committee on Student Scholarships, University of Texas at Dallas		
	Reviewer, Frontier in Ecology and Evolution		
	Reviewer, Frontier in Environment Science (2 times)		
	Reviewer, Research Grants Council (RGC) of Hong Kong (5 times)		
2021	Member, Intellectual Property Advisory Committee, University of Texas at Dallas		
	Member, Shanghai High Education Excellent Academic Program Evaluation		
	Reviewer, ISPRS Journal of Photogrammetry and Remote Sensing		
	Reviewer, International Journal of Applied Earth Observation and Geoinformation (3 times)		

2020	Reviewer, GISciences and Remote Sensing Chair, Ad hoc committee for Dr. Dohyeong Kim's promotion to Full Professor Member, Ad hoc committee for Dr. Yongwan Chun's promotion to Full Professor Member, Intellectual Property Advisory Committee, University of Texas at Dallas Reviewer, ISPRS Journal of Photogrammetry and Remote Sensing Reviewer, Annals of the American Association of Geographers (2) Reviewer, GISciences and Remote Sensing (2)
2019	Reviewer, GIScience and Remote Sensing Reviewer, International Journal of Geographic Information Sciences Frontiers of Earth Science Computers, Environment and Urban Systems (2) Member, Executive Committee, EPPS, UT Dallas Faculty Advisor, UTD Grace Chinese Christian Fellowship
2018	Reviewer, GIScience and Remote Sensing Reviewer, International Journal of Geographic Information Sciences (2 times) Reviewer, International Journal of Remote Sensing Reviewer, Oxford University Press, The Oxford Encyclopedia of Natural Hazards Governance Reviewer, Springer Publisher, Book proposal
2017	Reviewer, Annals of Geographic Information Sciences Reviewer, International Journal of Remote Sensing
2016	Committee member, Intellectual Property Committee, University of Texas at Dallas Reviewer, Annals of Geographic Information Sciences (2 times) Reviewer, GISciences and Remote Sensing (4 times) Reviewer, International Journal of Geographic Information Sciences (1 time) Reviewer, International Journal of Digital Globe (1 time) Review, ISPRS Journal of Photogrammetry and Remote Sensing (2 times) Review, Landscape and Urban Planning (2 times)
2015	Ad Hoc Committee for the tenure review for Professor Dohyeong Kim Chair, Intellectual Property Committee. University of Texas at Dallas Abstract reviewer, Belgian Remote Sensing Research Programme Abstract panel reviewer, Saudi International Environmental Technologies Conference (71 times) Proposal reviewer, Maine Technology Institute Develop Loan Competition Proposal reviewer, NASA (3 times) Proposal reviewer, National Science Foundation (3 times) Reviewer, Frontiers of Earth Sciences Reviewer, Geocomputation (7 times)

Reviewer, International Journal of Geographic Information Sciences (2 times)

2014 Reviewer, Remote Sensing of Environment
Proposal panel reviewer, USGIF
Proposal panel reviewer, CASIS
Proposal reviewer, ANP France
Reviewer, CAGIS
Reviewer, Advances in Space Research
Reviewer, Earth Observation and Remote Sensing Applications conference (13 times)
Reviewer, Frontiers of Earth Sciences
Reviewer, Geographic Analysis
Reviewer, Geoinformatics conferences (8 times)
Reviewer, International Journal of Geographic Information Sciences
Reviewer, International Journal of Remote Sensing
Reviewer, IEEE Transactions on Geoscience and Remote Sensing (3 times)
Reviewer, Natural Hazards and Earth System Sciences

2013 Reviewer, Remote Sensing (2 times)
Member, Program Committee, Geoinformatics 2013
Vice Chair, Treasurer, Board Member, AAG Spatial Analysis and Modeling Specialty (SAM) Group
Judge, AAG Spatial Analysis and Modeling Specialty (SAM) Group
Best Student Paper Competition
Member, External Advisory Committee, GIS Department, Collin College
External Faculty Promotion Reviewer, Sun Yat-set University
Panel Reviewer, National Science Foundation (2 times)
Reviewer, Annals of GIS
Reviewer, Cartographic and Geographic Information Science
Reviewer, Computers, Environment and Urban Systems (2 times)
Reviewer, Frontiers of Earth Sciences (2 times)
Reviewer, Geographic Analysis (2 times)
Reviewer, Geoinformatics conferences (5 times)
Reviewer, International Journal of Geographic Information Sciences
Reviewer, International Journal of Remote Sensing (2 times)
Reviewer, ISPRS Journal of Photogrammetry and Remote Sensing
Reviewer, Journal of Applied Remote Sensing (2 times)
Reviewer, Journal of Geo-spatial Information Science
Reviewer, Photogrammetric Engineering and Remote Sensing
Reviewer, GeoCarto International
Reviewer, GIScience and Remote Sensing
Reviewer, Spatial Analysis and Model Specialty Group, Paper Competition (9 times)

2012 Guest Editor, Special Issue on Areal Interpolation and Dasymetric Modeling, Geographical Analysis.

Vice Chair, Treasurer, Board Member, AAG Spatial Analysis and Modeling Specialty (SAM) Group
Member, Program Committee, Geoinformatics Conference, 2012
Reviewer, Geographical Analysis
Reviewer, GIScience and Remote Sensing
Reviewer, IJGIS (3 times)
Reviewer, Journal of Applied Remote Sensing
Reviewer, IEEE Transactions on Geoscience and Remote Sensing
Reviewer, Geoinformatics (6 times)
Reviewer, GeoCarto International
Reviewer, Annals of American Association of Geographers (2 times)

2011 Vice Chair, Treasurer, Board Member, AAG Spatial Analysis and Modeling Specialty (SAM) Group
Member, Program Committee, Geoinformatics 2011
Reviewer, Geographical Analysis
Reviewer, International Journal of Remote Sensing (3 times)
Reviewer, Annals of American Association of Geographers
Reviewer, Annals of GIS
Reviewer, Computers and Geosciences (2 times)
Reviewer, Photogrammetric Engineer and Remote Sensing.

2010 Vice Chair, Treasurer, Board Member, AAG Spatial Analysis and Modeling Specialty Group
BOD Member, The International Association of Chinese Professionals in Geographic Information Sciences
Member, Program Committee, Geoinformatics 2010
Panelist, NASA Proposal Review
Reviewer, ISPRS Journal of Photogrammetry and Remote Sensing
Reviewer, Advances in Space Research
Reviewer, Computers & Geosciences
Reviewer, International Journal of Applied Earth Observation and Geoinformation
Reviewer, Annals of GIS

2009 Newsletter Editor, AAG Spatial Analysis and Modeling Specialty Group
Member, Program Committee, Geoinformatics 2009
Reviewer, Computers, Environment and Urban Systems (2times)
Reviewer, Geographical Analysis
Reviewer, International Journal of Applied Geography Research
Reviewer, International Journal of Geographic Information Sciences
Reviewer, International Journal of Remote Sensing
Reviewer, Sensor

2008 Panel Reviewer, National Science Foundation (2 times)
President, International Association of Chinese Professionals in Geographic Information Science
Chair, Technical Committee, Geoinformatics 2008
Reviewer, Computers, Environment and Urban Systems

	Reviewer, Earth Surface Processes and Landforms
	Reviewer, Computers and Geosciences
2007	Reviewer, International Journal of Geographic Information Sciences
	Reviewer, ISPRS Journal of Photogrammetry and Remote Sensing
	Reviewer, Journal of Geographic Information Sciences
	President Elected, Chair of Membership Committee, International Association of Chinese Professionals in Geographic Information Science.
2006	Panel Reviewer, National Sciences Foundation
	Reviewer, ISPRS Journal of Photogrammetry and Remote Sensing, 2 times
	Reviewer, Urban Remote Sensing Book
2005	BOD member, Chair of Membership Committee, International Association of Chinese Professionals in Geographic Information Science (CPGIS).
	Reviewer, Photogrammetry Engineering and Remote Sensing
	Reviewer, International Journal of Remote Sensing
	Reviewer, GIScience and Remote Sensing
	Member, UTD Information Resources Policy and Planning Advisory Committee.
2004	BOD member, Chair of Awarding Committee, International Association of Chinese Professionals in Geographic Information Science (CPGIS).
	Faculty Advisor, UTD Association of Jiangxi Students and Scholars
	Reviewer, Photogrammetry Engineering and Remote Sensing,
	Reviewer, International Journal of Risk Assessment and Management
	Reviewer, Journal of Environment Management
	Reviewer, GIScience and Remote Sensing
	Reviewer, Computer, Environment and Urban Systems
2003	Reviewer, Photogrammetry Engineering and Remote Sensing, 3 times
	Reviewer, Software and Practice
	Reviewer, Computers, Environment and Urban Systems
	Reviewer, Remote Sensing of Environment
	Reviewer, Book Chapter, Crime Analysis and GIS
2002	External Dissertation Reader for Zhixiao Xie, State University of New York at Buffalo, NY
	Member, UTD Ad Hoc Committee on High Performance Computing and Network Infrastructure
	Reviewer, Photogrammetry Engineering and Remote Sensing
2001	Reviewer, International Journal of Remote Sensing
	Reviewer, Geographical & Environmental Modeling
	Chair, Ph.D. Oral Examining Committee for Dede Weldon Casas
	Member, UTD Information Resources Policy and Planning Advisory Committee
	Member, GIS Faculty Search Committee, UTD School of Social Sciences

	Moderator, Technical Session of ASPRS 2001 Annual Conference
2000 - Present	Faculty Advisor, UTD Grace Chinese Christian Student Fellowship
1996	Vice Chair, Chinese GIS Software Competition Evaluation Committee