F. Benjamin Zhan, Ph.D.

Professor Department of Geography and Environmental Studies, Texas State University

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Texas State University 601 University Drive, ELA 139	E–Mail: Phone:	zhan@txstate.edu (512) 245-8846
San Marcos, TX 78666	Fax:	(512) 245-8353

RESEARCH INTERESTS

Geographic Information Science; Spatial Data Science; Health/Medical Geography; Health Disparities; Transportation; Hazards Reduction

EDUCATION

Institution	Area of study	Degree & Year
SUNY-Buffalo, The State University of New York National Center for Geographic Information & An Buffalo, NY, USA (Major advisor: David M. Mark)		Ph.D., 1994
International Institute for Geo-Information Science Earth Observation (ITC), Enschede, The Netherlan		M.S., 1989
Wuhan Technical University of Surveying & Mapp (part of Wuhan University since 2000), Wuhan, Ch		B.S., 1983

PROFESSIONAL EXPERIENCE

Employment History

2003-present

Texas State University (Texas State), San Marcos, TX, USA

Professor with tenure, Department of Geography and Environmental Studies

2003-2015

Texas State University, San Marcos, TX, USA

Director, Texas Center for Geographic Information Science

1999-2003

Texas State University, San Marcos, TX, USA

Associate Professor with tenure, Department of Geography

1995-1999

Texas State University, San Marcos, TX, USA

Assistant Professor, Department of Geography

1994-1995

The University of Tennessee, Knoxville, TN, USA

Post-Doctoral Research Fellow at the Management Science Program in the School of Business

1991-1994

University at Buffalo, The State University of New York (SUNY), Buffalo, NY, USA

Research Assistant at the U. S. National Center for Geographic Information & Analysis (NCGIA)

1989-1991

Delft University of Technology, Delft, The Netherlands

Research Associate at the Center for Computer Graphics and Mapping

Faculty of Geodetic Science and Surveying Engineering

1983-1987

Wuhan Technical University of Surveying and Mapping, Wuhan, China

Full time instructor at the Department of Geodetic Engineering

Guest Professorships or Fellowships

2018-present

(Adjunct) Clinical Professor of Population Health

University of Texas at Austin-Dell Medical School, Austin, Texas

2012-2015

Guest Professor

Central South University, Changsha, China

2006-2015

Guest Professor

China State Key Laboratory for Information Engineering in Surveying, Mapping and Remote Sensing (LIESMARS)

Wuhan University, Wuhan, China

2008-2011

Guest Chair Professor in Cartography and Geographic Information Engineering

Guest chair professorship supported by the **Chang Jiang (Cheung Kong) Scholars Award Program Wuhan University**, Wuhan, China

(Note: "Chang Jiang" is the Yangtze River.)

2008-2010

(Consulting) Affiliated Professor

Shenzhen Institutes of Advanced Technology, Shenzhen, China

The Chinese Academy of Sciences

2008-2010

(Consulting) Chief Scientist, Laboratory for Earth and Space Information Technologies

Shenzhen Institutes of Advanced Technology, Shenzhen, China

The Chinese Academy of Sciences

2007-2008

Guest Professor

Shenzhen Institutes of Advanced Technology, Shenzhen, China

The Chinese Academy of Sciences

2005-2008

Guest Professor

Central South University, Changsha, China

2003-2010

Fellow, Joint Laboratory for Geo-Information Science

The Chinese University of Hong Kong & The Chinese Academy of Sciences, Hong Kong, China

Visiting Positions

1/2015-5/2015

Visiting Professor

Department of Health Disparities Research

The University of Texas MD Anderson Cancer Center, Houston, TX, USA

3/2008-4/2008

Visiting Professor

Shenzhen Institutes of Advanced Technology

The Chinese Academy of Sciences, China

12/2007

Visiting Professor

National Center for Geography and Geographic Information Science and Geomatics, Mexico

5/2006-6/2006

Visiting Professor

Central South University, Changsha, China

12/2005

Visiting Professor

National Center for Geography and Geographic Information Science and Geomatics, Mexico

6/2005

Visiting Professor

Central South University, Changsha, China

2/2002-4/2002

Visiting Scholar

Joint Laboratory for Geo-Information Science

The Chinese Academy of Sciences and the Chinese University of Hong Kong, Hong Kong, China

HONORS AND AWARDS

2017

Outstanding Mentor Award, The Conference of Southern Graduate Schools (CSGS), USA. (Note: The CSGS has 200+ institutions. It gives one outstanding mentor award per year.)

2016

Outstanding Mentor Award, Graduate College, Texas State University

2016

Outstanding Professor, Graduate Forum, Department of Geography, Texas State University

2015

Favorite Professor, Alpha Chi National College Honor Society, Texas State University Chapter

2012

Faculty Award for Outstanding Achievement in International Education International Office, Texas State University

2011

Presidential Award for Excellence in Scholarly/Creative Activities (professor/associate professor rank)

Texas State University

2011

Golden Apple Award for Excellence in Scholarly/Creative Activities

(professor/associate professor rank)

College of Liberal Arts, Texas State University

2008

Chang Jiang (Cheung Kong) Scholars Award

China Ministry of Education (Beijing, China) and the Li Ka Shing Foundation (Hong Kong, China)

2008

University Award for Excellence in Scholarly/Creative Activities

(professor/associate professor rank)

Texas State University

2008

Golden Apple Award for Excellence in Scholarly/Creative Activities

(professor/associate professor rank)

College of Liberal Arts, Texas State University

2008

Marquis Who's Who in the World (2008-2009; Special 25th Silver Anniversary Edition)

2007

Dean's Excellence Award for Scholarly/Creative Activities

College of Liberal Arts, Texas State University

2007

Marquis Who's Who in Science and Engineering (2007-2008 Edition)

GRANTS OR CONTRACTS

[Note: Zhan is/was sole PI unless noted differently.]

29. 2021–2023 \$300,000

Cancer Prevention and Research Institute of Texas (CPRIT)

Dissemination of a mailed stool testing program for colorectal cancer prevention in underserved communities in Texas

PI: Michael P. Pignone; Co-Is: F. Benjamin Zhan; Todd A. Olmstead

28. 2020–2023 \$220,819

Texas Department of Transportation

Determine Evacuation Planning Design for Disaster Resilience

PI: Zhijie (Sasha) Dong; Co-PIs: Feng Wang; F. Benjamin Zhan

27. 2018–2019 \$25,000

LIVESTRONG Cancer Institutes, University of Texas Dell Medical School

A Spatially Enhanced Multi-Faceted Intervention to Increase Colorectal Cancer Screening Rates in Vulnerable Populations in Travis County

PI: F. Benjamin Zhan; Co-PI: Michael P. Pignone; Co-Is: Anjum Khurshid; Nicole Kluz; Bretta Candelaria

26. 2016–2017 \$20,000

Texas State University

Spatially Informed Strategies for Cancer Intervention

PI: F. Benjamin Zhan; Co-PIs: Larry Price, Yijun Lu, and Hui Zhao

25. 2012-2015 CNY700,000 (\$110,000) Natural Science Foundation of China Space-Time Evolution of Gravity Field before and after the Wenchuan Earthquake PI: Yiqing Zhu; US Collaborator: F. Benjamin Zhan \$499,987 24. 2011-2015 *United States Environmental Protection Agency (USEPA)* Science To Achieve Results (STAR) Program Air Pollution-Exposure-Health Effect Indicators: Mining Massive Geographically-Referenced Environmental Health Data to Identify Risk Factors for Birth Defects PI: F. Benjamin Zhan; Co-PIs: Jean D. Brender, Jing Yang, and Peter H. Langlois \$15,000 23. 2009-2010 Texas Department of Transportation Texas Department of Transportation (TxDOT) Research Technical Assistance Panels CNY300,000 (\$43,800) China Ministry of Education, the Li Ka Shing Foundation (Hong Kong), and Wuhan University Visual Geospatial Analytics and its Applications in Human-Environmental Sciences 21. 2008–2009 \$87,991 Texas Department of State Health Services GIS-Augmented Environmental Health Research in Texas: Maternal Residential Proximity to Superfund Sites and Low Birth Weight in Offspring 20. 2007-2008 \$26,907 Texas Department of State Health Services GIS-Based Analysis for Linking Environmental and Birth Data \$1,080,454 19. 2007-2011 National Institute of Environmental Health Sciences Nitrates, Nitrites, and Nitrosatable Drugs and Risk of Selected Birth Defects PI: Jean D. Brender; F. Benjamin Zhan (consultant) was one of other five senior researchers on the team 18. 2007-2008 \$30,877 Texas Department of State Health Services GIS for Environmental Health Data Analysis in Texas \$65,000 17. 2005-2007 United States Environmental Protection Agency (USEPA) "Dos Laredos": Integrating Monitoring, Watershed Education, and Litter Cleanup 16. 2005-2006 \$15,412 United States Environmental Protection Agency (USEPA) Learning Urban Watersheds 15. 2005-2007 \$59,560 Texas Department of Transportation Regional Public Transportation Solutions for Intercity Commuting Problems 14. 2004-2006 \$656,842 Texas Commission on Environmental Quality (TCEQ) The Texas Watch Program

13. 2004-2008 \$161,395 *United States Department of Agriculture (USDA)* (part of the grant – USDA/CSREES Award No: 2004-38899-02181) Sustainable Agricultural Water Conservation in the Rio Grande Basin-GIS and Climate Modeling Component (sub-contract through River Systems Institute at Texas State) 12. 2003-2006 \$1,000,000 *United States Department of Defense (USDOD)* through the Air Force Institute for Operational Health and the International Consortium for Health and Environmental Security Texas-Mexico Border Health and Environmental Security Initiative Co-PIs: Roberto Villarrel, Isidore Flores, Monte Thies, F. Benjamin Zhan, Keith Sternes 11. 2002-2003 \$25,000 Houston Endowment The Impacts of Economic and Population Growth on Water Quality and Physical Habitat in the Guadalupe River Basin (subcontract through the River Systems Institute at Texas State) 10. 2002-2005 \$215,495 United States Centers for Disease Control and Prevention (CDC) (subcontract through the Texas Center for Birth Defects Research and Prevention) Residential Proximity to Environmental Hazards and Congenital Malformations in Offspring PI: Jean D. Brender; Co-PIs: F. Benjamin Zhan, Lucina Suarez, Peter H. Langlois 9. 2001-2003 \$238,000 Texas Workforce Commission High Tech Workforce Training for Youth: Geospatial Information Technology PI: Richard Boehm; Co-PI: F. Benjamin Zhan 8. 2000-2001 \$50,000 Texas Department of Public Safety Texas GIS-Based Sex Offender Location Notification Seed Grant PI: F. Benjamin Zhan; Co-PI: Lawrence Estaville 7. 2000-2001 \$43,365 Texas Natural Resources and Conservation Commission GIS-Based Pollutants Emission Estimation and Allocation along the Texas-Mexico Border 6. 1998–2000 \$107,830 Lower Colorado River Authority (LCRA) Modeling Urban Growth and GIS-Based Allocation Analysis of Regional Water Demand and Supply 5. 1998-1999 \$33,045 Texas Natural Resources and Conservation Commission A Web-Based Recycling Markets Information System II 4. 1997-1998 \$44,740 Texas Natural Resources and Conservation Commission A Web-Based Recycling Markets Information System II PI: Robert Larsen; Co-PI: F. Benjamin Zhan 3. 1997-1998 \$10,588 Texas State University A Network-Based Model for Water Availability and Water Rights Management of Texas Rivers

PI: F. Benjamin Zhan; co-PI: Richard Earl

2. 1997–1998 \$6,000 Texas State University

Shortest Path Algorithms: An Empirical Evaluation Using Real Road Networks

1. 1996–1997
Texas State University
Models of Fuzzy Spatial Relations

\$3,000

PUBLICATIONS

Book(s)

1. Bin Zou, F. Benjamin Zhan, and Yongnian Zeng. 2012. *Spatial-Temporal Modeling of Air Pollution Exposure and Health Risk Assessment*. Beijing, China: Environmental Science Press. (in Chinese)

Refereed Journal Articles

[Note: † Indicates a student who was Zhan's advisee when the article was initially prepared; * Denotes the corresponding author.]

- 100. *Zhan, FB; Liu, Y; Yang, M; Kluz, N; Olmstead, TA; Spencer, J; Shokar, N; Cruz, RL; Pignone, MP. 2023. Using GIS to identify priority sites for colorectal cancer screening programs in Texas health centers. *Preventing Chronic Disease* 20:220–205. (DOI: http://dx.doi.org/10.5888/pcd20.220205)
- 99. ‡*Yang, M; Hong, Y; **Zhan, FB**. 2023. Explore urban interactions based on floating car data a case study of Chengdu, China. *Annals of GIS* (doi: 10.1080/19475683.2023.2166109)
- 98. Wu, X; Blanchardrd, D; Zhan, FB; Zhang, J. 2022. Determining Association between Lung Cancer Mortality Worldwide and Risk Factors Using Fuzzy Inference Modeling and Random Forest Modeling. *International Journal of Environmental Research and Public Health*, 19(21): 14161. (doi: 10.3390/ijerph192114161. PMID: 36361041; PMCID: PMC9659002.)
- 97. ‡Gong, X; *Zhan, FB. 2022. A method for identifying critical time windows of maternal air pollution exposures associated with low birth weight in offspring using massive geographic data. *Environmental Science and Pollution Research* 29(22): 33345–33360. (doi: 10.1007/S11356-021-17762-2)
- 96. ‡*Morshed, N; **Zhan, FB**. 2021. Racial/ethnic, social characteristics and geographic disparities of childhood cancer late-stage diagnosis in Texas, 2005 to 2014. *Annals of GIS* 27(4): 329–340. (doi: 10.1080/19475683.2021.1981999)
- 95. Zhang, JT; **Zhan, FB**; Wu, X; Zhang, DJ. 2021. Partial Correlation Analysis of Association Between Subjective Well-Being and Ecological Footprint. *Sustainability* 13(3): 1033– (doi: 10.3390/su13031033)
- 94. *Zhan, FB; Morshed, N; Kluz, N; Candelaria, B; Baykal-Caglar, E; Khurshid, A; Pignone MP. 2021. Spatial Insights for Understanding Colorectal Cancer Screening in Disproportionately Affected Populations, Central Texas, 2019. *Preventing Chronic Disease* 18: E20–. (doi: https://doi.org/10.5888/pcd18.200362)
- 93. ‡Peng W; Wang, Q; **Zhan, FB**; Cao, Y. 2020. Spatiotemporal Ocean Tidal Loading in InSAR measurements Determined by Kinematic PPP Solutions of a Regional GPS Network. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing* 13, 3772-3779. (doi: 10.1109/JSTARS.2020.3002777)
- 92. Zou, B; Li, SX; Zheng, Z; **Zhan, FB**; Yang, ZL; Wan, N. 2020. Healthier routes planning: A new method and online implementation for minimizing air pollution exposure risk. *Computers Environment and Urban Systems* 80 (doi: 10.1016/j.compenvurbsys.2019.101456)

- 90. Fulton, L; Dong, Z; **Zhan, FB**; Kruse, CS; and Granados, PS. 2019. Geospatial-Temporal and Demand Models for Opioid Admissions, Implications for Policy. *Journal of Clinical Medicine* 8(7), 993–. (doi: 10.3390/jcm8070993)
- 89. Wang, Y; Hong, S; Wang, Y; Gong, X; He, C; Lu, Z; **Zhan, FB**. 2019. What is the difference in global research on Central Asia before and after the collapse of the USSR: a bibliometric analysis. *Scientometrics* (doi: 10.1007/s11192-019-03069-0)
- 88. ‡Gong, X; Lin, Y; *Zhan, FB. 2018. Industrial Air Pollution and Low Birth Weight: A Case-Control Study in Texas, USA. *Environmental Science and Pollution Research* 25(8): 1-15. (doi: 10.1007/S11356-018-2941-y)
- 87. ‡Gong, X; Lin, Y; Bell, ML; *Zhan, FB. 2018. Associations between maternal residential proximity to air emissions from industrial facilities and low birth weight in Texas, USA. *Environment International* 120: 181-198. (doi: 10.1016/j.envint.2018.07.045)
- 86. Lin, Y; Wan, N; *Zhan, FB. 2017. Colorectal cancer disparities among racial/ethnic minorities in Texas, 1995-2003. *Annals of GIS* 23(2): 93-101. (doi: 10.1080/19475683.2017.1311942)
- 85. Zhao, C; Jensen, J; **Zhan, FB**. 2017. A comparison of urban growth and their influencing factors of two border cities: Laredo in the US and Nuevo Laredo in Mexico. *Applied Geography* 79: 223-234. (doi: 10.1016/j.apgeog.2016.12.017)
- 84. ‡*Gong, X; **Zhan, FB**; Lin, Y. 2016. Maternal Residential Proximity to Nuclear Facilities and Low Birth Weight in Offspring in Texas. *Radiation and Environmental Biophysics* 56(1): 111-120. (doi: 10.1007/s00411-016-0673-2)
- 83. ‡Gong, X; *Zhan, FB; Brender, JD; Langlois, PH; Lin, Y. 2016. Validity of the Emission Weighted Proximity Model in estimating air pollution exposure intensities in large geographic areas. *Science of the Total Environment* 563-564: 478-85. (doi: 10.1016/j.scitotenv.2016.04.088)
- 82. Wu, X; **Zhan, FB**; Zhang, K; *Deng, Q. 2016. Application of a two-step cluster analysis and the Apriori algorithm to classify the deformation states of two typical colluvial landslides in the Three Gorges, China. *Environmental Earth Sciences* 75(2): 1-16. (doi: 10.1007/s12665-015-5022-2)
- 81. *Yang, Y; Li, L; **Zhan, FB**; Zhuang, Y. 2016. Probabilistic Analysis of Earthquake-Led Water Contamination: A Case of Sichuan, China. *Pure and Applied Geophysics*: 173(6): 1859–1879. (doi: 10.1007/s00024-015-1216-5)
- 80. Wu, X; Chen, X; **Zhan, FB**; *Hong, S. 2015. Global Research Trends in Landslides During 1991–2014: A Bibliometric Analysis. *Landslides* (2015): 1-12. (doi: 10.1007/s10346-015-0624-z)
- 79. ‡Lin, Y; Schootman, M; ***Zhan, FB**. 2015. Racial/Ethnic, Area Socioeconomic, and Geographic Disparities of Cervical Cancer Survival in Texas. *Applied Geography* 56: 21-28 (doi: 10.1016/j.apgeog.2014.10.004)
- 78. ‡*Yorke, C; **Zhan, FB**; Lu, Y; Hagelman, R. 2015. Incorporating Evacuation Potential into Place Vulnerability Analysis. *Geomatics, Natural Hazards and Risk* 6(3): 195-211. (doi: 10.1080/19475705.2013.832406)
- 77. *Brender, JD; Shinde, MU; **Zhan, FB**; ‡Gong, X; Langlois, PH. 2014. Maternal Residential Proximity to Chlorinated Solvent Emissions and Birth Defects in Offspring: A Case-Control Study. *Environmental Health* 13: 96 (doi: 10.1186/1476-069X-13-96)

- 76. Guo, YJ; Feng, N: Christopher, SA; Kang, P; **Zhan, FB**; *Hong, S. 2014. Satellite remote sensing of fine particulate matter ($PM_{2.5}$) air quality over Beijing using MODIS. *International Journal of Remote Sensing* (35)17): 6522-6544. (doi: 10.1080/01431161.2014.958245)
- 75. **Zhan, FB**; ‡*Lin, Y. 2014. Racial/Ethnic, Socioeconomic, and Geographic Disparities of Cervical Cancer Advanced-Stage Diagnosis in Texas. *Women's Health Issues* 24(5): 519-527. (doi: 10.1016/j.whi.2014.06.009)
- 74. Kang, P; Feng, N; Wang, Z; Guo, Y; Wang, Z; Chen, Y; Zhan, J; **Zhan, FB**; Hong, S. 2014. Statistical properties of aerosols and meteorological factors in Southwest China. *Journal of Geophysical Research: Atmospheres* 119(16): 9914-9930. (doi: 10.1002/2014JD022083)
- 73. Niu, B; Loáiciga, HA; Wang, Z; **Zhan, FB**; *Hong, S. 2014. Twenty years of global groundwater research: A Science Citation Index Expanded-based bibliometric survey (1993-2012). *Journal of Hydrology* 519: 966-975. (doi: 10.1016/j.jhydrol.2014.07.064)
- 72. Zhang, W; Wang, H; Han, F; Gao, J; Nguyen, T; Chen, Y; Huang, B; **Zhan, FB**; Zhou, L; *Hong, S. 2014. Modeling Urban Growth by the Use of a Multiobjective Optimization Approach: Environmental and Economic Issues for the Yangtze Watershed, China. *Environmental Science and Pollution Research* 21: 13027-13042. (doi: 10.1007/s11356-014-3007-4)
- 71. ‡*Lin, Y; **Zhan, FB**. 2014. Geographic Variations of Racial Disparities of Cervical Cancer Mortality in Texas. *Southern Medical Journal* 107(5): 281-288. (doi: 10.1097/SMJ.00000000000000000)
- 70. *Zhan, FB; ‡Gong, X; Liu, XJ. 2014. Mark on the Globe: A Quest for Scientific Bases of Geographic Information and its International Influence. *International Journal of Geographic Information Science* 28(6): 1233-1245. (doi: 10.1080/13658816.2013.847186)
- 69. *Brender, JD; Weyer, PJ; Romitti, PA: Mohanty, B; Shinde, MU; Vuong, AM; Sharkey, JR; Dwivedi, D; Horel, SA; Kantamneni, J; Huber, JC; Zheng, Q; Werler, M; Kelley, KE; Griesenbeck, JS; **Zhan**, **FB**; Langlois, PH; Suarez, L; Canfield, MA; the National Birth Defects Prevention Study. 2013. Prenatal Nitrate Intake from Drinking Water and Selected Birth Defects in Offspring. *Environmental Health Perspective* 121(9): 1083-1089. (doi: 10.1289/ehp.1206249)
- 68. *Zhou, XG; Chen, J; **Zhan, FB**; Li, ZL; Madden, M; Zhao, RL; Liu, WZ. 2013. A Euler Number-based Topological Computation Model for Land Parcel Database Updating. *International Journal of Geographic Information Science* 27(10): 1983-2005. (doi: 10.1080/13658816.2013.780607)
- 67. ‡*Lu, Z; **Zhan, FB**; Er, D. 2013. Probability Estimation of Future Earthquakes in China Based on an Improved PSHA Model. *Geomatics and Information Science of Wuhan University* 38(3): 349-352. (in Chinese with an English abstract) (doi: 1671-8860(2013)03-0349-04)
- 66. ‡Wan, N; **Zhan, FB**; *Zou, B; Wilson, JG. 2013. Spatial Access to Healthcare Services and Disparities in Colorectal Cancer Stage at Diagnosis in Texas. *The Professional Geographer* 65(3): 527-541. (doi: 10.1080/00330124.2012.700502)
- 65. ‡*Yu, X-M; **Zhan, FB**; Liao, M-S; Hu, J-X. 2012. Object-Oriented Feature Selection Algorithms based on Improved SEaTH Algorithms. *Geomatics and Information Science of Wuhan University* 37(8): 921-924. (in Chinese with an English abstract) (doi: 1671-8860(2012)08-0921-04
- 64. Zhu, Y; *Zhan, FB. 2012. Medium-Term Earthquake Forecast Using Gravity Monitoring Data: Evidence from the Yutian and Wenchuan Earthquakes in China. *International Journal of Geophysics* (doi: 10.1155/2012/307517)
- 63. *Zhu, Y; Liang, W; **Zhan, FB**; Liu, F; Xu, Y; Guo, S; Liu, L. 2012. Gravity Field Dynamics in Mainland China: 1998–2008. *Chinese Journal of Geophysics–Chinese Edition* 55(3): 804-813. (in Chinese with an English abstract) (doi: 10.6038/j.issn.0001-5733.2012.03.010)

- 62. Liu, X; **Zhan, FB**; Song, H; Niu, B; *Liu, Y. 2012. A Bibliometric Study of Earthquake Research: 1900–2010. *Scientometrics* 92(3): 747-765. (doi: 10.1007/\$11192-011-0599-z)
- 61. ‡*Tian, N; Goovaerts, P; **Zhan, FB**; Chow, E; Wilson, JG. 2012. Identifying Risk Factors for Disparities in Breast Cancer Mortality Amongst African American and Hispanic Women. *Women's Health Issues* 22(3): e267-e276. (doi: 10.1016/j.whi.2011.11.007)
- 60. *Lu, Y; ‡Yorke, C; **Zhan, FB**. 2012. Considering Risk Locations when Defining Perturbation Zones for Geomasking. *Cartographica: The International Journal for Geographic Information and Geovisualization* 47(3): 168-178. (doi: 10.3138/carto.47.3.1112)
- 59. ‡Liu, X; *Zhan, FB. 2012. Productivity of Doctoral Graduate Placement among PhD-Granting Geography Programs in the United States: 1960–2010. *The Professional Geographer* 64(4): 475-490. (doi: 10.1080/00330124.2011.603658)
- 58. ‡Wan, N; ***Zhan, FB**; Lu, Y; Tiefenbacher, JP. 2012. Access to Health Care and Disparities in Colorectal Cancer Survival in Texas. *Health & Place* 18: 321-329. (doi: 10.1016/j.healthplace.2011.10.007)
- 57. ‡Yao, X; **Zhan, FB**; *Lu, Y; Yang, M–H. 2012. Effects of Real Time Traffic Information Systems on Traffic Performance under Different Network Structures. *Journal of Central South University of Technology* 19: 586-592. (doi: 10.1007/s11771-012-1043-0)
- 56. ‡*Wan, N; **Zhan, FB**; Cai, ZL. 2011. A Spatially Weighted Degree Model for Network Vulnerability Analysis. *Geo-Spatial Information Science* 14(4): 274-281. (doi: 10.1007/s11806-011-0575-z)
- 55. *Zou, B; **Zhan, FB**; Zeng, Y. 2011. Maternal Exposure to Sulfur Dioxide and the Risk of Low Birth Weight Babies. *Journal of Hygiene Research* 40(5): 638-642 (in Chinese with an English abstract) (doi: 1000-8020(2011) 05-0638-05)
- 54. Zou, B; *Wilson, JG; **Zhan, FB**; Zeng, Y; Wu, KJ; Peng, F. 2011. Spatial-temporal Variations of Regional Ambient Sulfur Dioxide Concentration and Source Contribution Analysis: A Dispersion Modeling Approach. *Atmospheric Environment* 45(28): 4977-4985. (doi: 10.1016/j.atmosenv.2011.05.073)
- 53. ‡Wan, N; **Zhan, FB**; *Zou, B; Chow, TE. 2011. A Relative Spatial Access Assessment Approach for Analyzing Potential Spatial Access to Colorectal Cancer Services in Texas. *Applied Geography* 32(2): 291-299. (doi: 10.1016/j.apgeog.2011.05.001)
- 52. ‡*Wan, N; **Zhan, FB**; Cai, ZL. 2011. Socioeconomic Disparities in Prostate Cancer Mortality and the Impact of Geographic Scale. *Southern Medical Journal* 104(8): 553-559. (doi: 10.1097/SMJ.0b013e31821f99ff)
- 51. ‡Zou, B; **Zhan, FB**; *Zeng, Y; Yorke, C; Liu, X. 2011. Performance of Kriging and EWPM for Relative Air Pollution Exposure Risk Assessment. *International Journal of Environmental Research* 5(3): 769-778.
- 50. *Zou, B; Zeng, Y; **Zhan, FB**; Liu FM; Qiu YH; Zhang HF. 2011. Assessment of Maternal Exposure to Ambient Air Pollution and its Relationship with Low Birth Weight: A Review. *Journal of Hygiene Research* 40(2): 246-252. (in Chinese with an English abstract)
- 49. ‡*Tian, N; Wilson, JG; **Zhan, FB**. 2011. Spatial Association of Racial/Ethnic Disparities Between Late-Stage Diagnosis and Mortality for Female Breast Cancer: Where to Intervene? *International Journal of Health Geographics* 10: 24 (doi: 10.1186/1476-072X-10-24)
- 48. ‡*Yao, ZJ; Tang, JM; **Zhan, FB**. 2011. Detection of Arbitrarily–Shaped Clusters Using a Neighbor Expanding Approach: A Case Study on Murine Typhus in South Texas. *International Journal of Health Geographics* 10: 23 (doi: 10.1186/1476-072X-10-23)
- 47. *Zhan, FB; Zhu, Y; Ning, JS; Zhou, J; Liang, W; Xu, Y. 2011. Gravity Changes before Large Earthquakes in China: 1998–2005. *Geo-Spatial Information Science* 14(1): 1-9. (doi: 10.1007/S11806-011-0440-0)

- 46. *Chen, X; **Zhan, FB**; Wu, G. 2010. A Spatial and Temporal Analysis of Commute Pattern Changes in Central Texas. *Annals of GIS* (formerly *Journal of Geographic Information Science*) 16(4): 255-267. (doi: 10.1080/19475683.2010.539984)
- 45. *Zhan, FB; Tapia-Silva, FO; Santillana, M. 2010. Estimating Small Area Population Growth Using Geographic Knowledge Guided Cellular Automata. *International Journal of Remote Sensing* 31(21): 5689-5707. (doi: 10.1080/01431161.2010.496802)
- 44. Zhu, Y; *Zhan, FB; Zhou, J; Liang, W; Xu, Y. 2010. Gravity Measurements and their Variations before the 2008 Wenchuan Earthquake. *Bulletin of the Seismological Society of America* 100(5B): 2815-2824. (doi: 10.1785/0120100081)
- 43. ‡*Liu, XJ; **Zhan, FB**; Ai, TH. 2010. Road Selection Based on Voronoi Diagrams and 'Strokes' in Map Generalization. *International Journal of Applied Earth Observation and Geoinformation* 12: S194-S202. (doi: 10.1016/j.jag.2009.10.009)
- 42. ‡*Tian, N; Goovaerts, P; **Zhan, FB**; Wilson, JG. 2010. Identification of Racial Disparities of Breast Cancer Mortality in Texas: Does Scale Matter? *International Journal of Health Geographics* 9:35. (doi: 10.1186/1476-072X-9-35)
- 41. *Zeng, Y; Huang, W; **Zhan, FB**; Zhang, H; Liu, H. 2010. Study on the Urban Heat Island Effects and its Relationship with Surface Biophysical Characteristics Using MODIS Imageries. *Geo-Spatial Information Science* 13(1): 1-7. (doi: 10.1007/s11806-010-0204-2)
- 40. ‡Zou, B; *Zhan, FB; Wilson, JG; Zeng, Y. 2010. Performance of AERMOD at Different Temporal Scales. *Simulation Modelling Practice and Theory* 18: 612-623. (doi: 10.1016/j.simpat.2010.01.005)
- 39. ‡Tian, J; *Wilson, JG; **Zhan, FB**. 2010. Female Breast Cancer Mortality Clusters within Racial Groups in the United States. *Health & Place* 16(3): 209-218. (doi: 10.1016/j.healthplace.2009.09.012)
- 38. ‡Zou, B; *Wilson, JG; **Zhan, FB**; Zeng, YN. 2009. Spatially Differentiated and Source Specific Population Exposure to Ambient Urban Air Pollution. *Atmospheric Environment* 43(26): 3981-3988. (doi: 10.1016/j.atmosenv.2009.05.022)
- 37. *Langlois, PH; Brender, JD; Suarez, L; **Zhan, FB**; Mistry, JH; Jimenez, S; Moody, K. 2009. Conotruncal Heart Defects and Proximity to Environmental Hazards. *Paediatric and Perinatal Epidemiology* 23: 321-331. (doi: 10.1111/j.1365-3016.2009.01045.x)
- 36. ‡*Zou, B; Wilson, JG; **Zhan, FB**; Zeng, YN. 2009. An Emission-Weighted Proximity Model for Air Pollution Exposure Assessment. *Science of the Total Environment* 407(17): 4939-4945. (doi: 10.1016/j.scitotenv.2009.05.014)
- 35. ‡Zou, B; Zeng, YN; **Zhan, (F)BF**; Yang, LB; Zhang, HH. 2009. Spatial and Temporal Health Risk Assessment of Water Environment in Urban Area. *Geography and Geo-Information Science* 25(2): 94-98. (in Chinese) (doi: CNKI:SUN:DLGT.0.2009-02-025)
- 34. ‡*Silvan, JL; Wang, L; **Zhan, FB**. 2009. Representing Geographical Objects with Scale-Induced Indeterminate Boundaries: A Neural Network-Based Data Model. *International Journal of Geographical Information Science* 23(3): 295-318. (doi: 10.1080/13658810801932021)
- 33. ‡*Zou, B; Wilson, JG; **Zhan, FB**; Zeng, YN. 2009. A Review of Air Pollution Exposure Assessment Methods Utilized in Epidemiological Studies. *Journal of Environmental Monitoring* 11: 475-490. (doi: 10.1039/b813889c)
- 32. *Brender, JD; Suarez, L; Langlois, PH; Steck, M; **Zhan, FB**; Moody, K. 2008. Are Maternal Occupation and Residential Proximity to Industrial Sources of Pollution Related? *Journal of Occupational and Environmental Medicine* 50(7): 834-839. (doi: 10.1097/JOM.obo13e31816a9e8e)

- 31. *Brender, JD; **Zhan, FB**; Langlois, PH; Suarez, L; Scheuerle, A. 2008. Residential Proximity to Waste Sites and Industrial Facilities and Chromosomal Anomalies in Offspring. *International Journal of Hygiene and Environmental Health* 211(1-2): 50-58. (doi: 10.1016/j.ijheh.2007.02.009)
- 30. ‡*Chen, X; **Zhan, FB**. 2008. Agent-Based Modeling and Simulation of Urban Evacuation: Relative Effectiveness of Simultaneous and Staged Evacuation Strategies. *Journal of the Operational Research Society* 59(1): 25-33. (doi: 10.1057/palgrave.jors.2602321)
- 29. *Huang, B; Wu, Q; **Zhan, FB**. 2007. A Shortest Path Algorithm with Novel Heuristics for Dynamic Transportation Networks. *International Journal of Geographical Information Science* 21(6): 625-644. (doi: 10.1080/13658810601079759)
- 28. *Suarez, L; Brender, JD; Langlois, PH; **Zhan, FB**; Moody, K. 2007. Maternal Exposures to Hazardous Waste Sites and Industrial Facilities and Risk of Neural Tube Defects in Offspring. *Annals of Epidemiology* 17(10): 772-777. (doi: 10.1016/j.annepidem.2007.05.005)
- 27. Hanford, EJ; *Zhan, FB; Lu, Y; Giordano, A. 2007. Chagas Disease in Texas: Realizing the Significance and Implications of Evidence in the Literature. *Social Science & Medicine* 65: 60-79. (doi: 10.1016/j.socscimed.2007.02.041)
- 26. **Zhan, FB**. 2007. Making a Difference Using Geospatial Information Technologies. *Research in Geographic Education* 9(1): 153-158.
- 25. *Zhan, FB; Brender, JD; DeLima, I; Suarez, L; Langlois, PH. 2006. Match Rate and Positional Accuracy of Two Geocoding Methods for Epidemiological Research. *Annals of Epidemiology* 6(11): 842-849. (doi: 10.1016/j.annepidem.2006.08.001)
- 24. *Brender, JD; **Zhan, FB**; Suarez, L; Langlois, PH; Moody, K. 2006. Maternal Residential Proximity to Waste Sites and Industrial Facilities and Oral Clefts in Offspring. *Journal of Occupational and Environmental Medicine* 48(6): 565-572. (doi: 10.1097/01.jom.0000214466.06076.07)
- 23. *Brender, JD; **Zhan, FB**; Suarez, L; Langlois, PH; Gilani, Z; DeLima, I; Moody, K. 2006. Linking Environmental Hazards and Birth Defects Data. *International Journal of Occupational and Environmental Health* 12(2): 126-133.
- 22. *Zhan, FB; Brender, JD; Han, Y; Suarez, L; Langlois, PH. 2006. GIS-EpiLink: A Spatial Search Tool for Linking Environmental and Health Data. *Journal of Medical Systems* 30(5): 405-412. (doi: 10.1007/S10916-006-9027-y)
- 21. ‡*Chen, X; **Zhan, FB**. 2006. Mapping the Vulnerability to Potential Toxic Substance Releases from Industrial Facilities under Emergency Situations: A Case Study of Galveston, Texas. *Annals of GIS* (formally *Geographic Information Sciences*) 12(1): 27-33. (doi: 10.1080/10824000609480614)
- 20. ‡Chen, X; Meaker, JW; ***Zhan, FB**. 2006. Agent-Based Modeling and Analysis of Hurricane Evacuation Procedures for the Florida Keys. *Natural Hazards* 38(3): 321-338. (doi: 10.1007/s11069-005-0263-0)
- 19. *Zhan, FB; ‡Chen, X; Noon, CE; ‡Wu, G. 2005. A GIS-Enabled Comparison of Fixed and Discriminatory Pricing Strategies for Potential Switchgrass-to-Ethanol Conversion Facilities in Alabama. *Biomass & Bioenergy* 28(3): 295-306. (doi: 10.1016/j.biombioe.2004.06.006)
- 18. *Zhan, FB; Lin, H. 2003. Geographic Patterns of Cancer Mortality in Texas, 1990-1997. *Texas Medicine* 99(8): 58-64.
- 17. ***Zhan, FB**; Lin, H. 2003. Topological Overlay of Two Simple Polygons with Indeterminate Boundaries. *Transactions in GIS* **7**(1): 71-86. (doi: 10.1111/1467-9671.00130)
- 16. Noon, CE; *Zhan, FB; Graham, RL. 2002. GIS-Based Analysis of Marginal Price Variation with an Application in Ethanol Plant Location. *Networks and Spatial Economics* 2(1): 79-93. (doi: 10.1023/A:1014519430859)

- 15. **Zhan, FB**. 2002. Are Deaths from Liver Cancer, Lung Cancer, Kidney Cancer, and Leukemia Clustered in San Antonio? *Texas Medicine* 98(10): 51-56.
- 14. **Zhan, FB**. 2002. GIS-Based Spatial Allocation Analysis of Population Growth in Regional Water Resource Planning. *Annals of GIS* (formally *Geographic Information Sciences*) 8(2): 97-107. (doi: 10.1080/10824000209480578)
- 13. **Zhan, FB**. 2001. Approximate Characterization of Topological Relations Between Fuzzy Regions and Their Corresponding Linguistic Descriptions. *Systems Analysis Modelling Simulation* 41(1): 1-16.
- 12. **Zhan, FB**. 2001. Childhood Cancer Clusters in New Mexico, 1973-1997. *The Southwestern Geographer* 5: 31-48.
- 11. *Zhan, FB; Noon, CE. 2000. A Comparison Between Label-Setting and Label-Correcting Algorithms for Computing One-to-One Shortest Paths. *Journal of Geographic Information and Decision Analysis* 4(2): 1-11.
- 10. **Zhan, FB**. 2000. Educating Geographers with GIS Skills for the Real World: Some Feedback from Geography Graduates at Southwest Texas State University. *Geocarto International* 15(3): 75-79.
- 9. **Zhan, FB**. 2000. The Ribbon and the 'Beige Region:' GIS Development for Epidemiology Analysis along the Texas–Mexico Border. *SOCIOTAM: International Journal of Social Sciences & Humanities* 10(1): 209-220. (in Spanish)
- 8. *Zhan, FB; Noon, CE. 1998. Shortest Path Algorithms: An Evaluation Using Real Road Networks. *Transportation Science* 32(1): 65-73.
- 7. **Zhan, FB**. 1998. A Family of Spatio-Temporal Location Analysis Problems in Mobile Trading. *Papers in Regional Science* 77(1): 1-18.
- 6. **Zhan, FB**. 1998. Approximate Analysis of Topological Relations between Geographic Regions with Indeterminate Boundaries. *Soft Computing* 2(2): 28-34.
- 5. **Zhan, FB**. 1997. Three Fastest Shortest Path Algorithms on Real Road Networks: Data Structures and Procedures. *Journal of Geographic Information and Decision Analysis* 1(1): 69-82.
- 4. *Fotheringham, AS; **Zhan, FB**. 1996. A Comparison of Three Exploratory Methods for Cluster Detection in Spatial Point Patterns. *Geographical Analysis* 28(3): 200-218.
- 3. *Zhan, FB; Buttenfield, BP. 1996. Multi-Scale Representation of a Digital Line. *Cartography and Geographic Information Systems (Science)* 23(4): 206-228.
- 2. *Zhan, FB; Buttenfield, BP. 1995. Object-Oriented Rule-Based Symbol Selection for Visualizing Statistical Information. *International Journal of Geographical Information Systems* 9(3): 293-315.
- 1. *Wang, S; Qin, Y; Shen, J; **Zhan, FB**; Wang, Z; Zhu, Y. 1985. Identification of Tendency Anomalies Prior to Earthquakes Using a Residual-Cumulative Error Test Method. *Journal of Seismological Research* 8(2): 39-48. (in Chinese with an English abstract)

Other Peer-Reviewed Publications

- [Note: † Indicates a student who was Zhan's advisee when the article was initially prepared; * Denotes the corresponding author.]
- 36. *Zhan, FB, Lin, Y. 2017. Data Structure, Vector. In *The International Encyclopedia of Geography: People, the Earth, Environment, and Technology*. Edited by Douglas Richardson, Noel Castree, Michael F. Goodchild, Audrey Kobayashi, Weidong Liu, and Richard A. Marston. John Wiley & Sons, Ltd. pp. 1328–1339. (doi: 10.1002/9781118786352.wbiego489)

- 35. ‡*Zhang, C; Yang, J; **Zhan, FB**; Gong, X; Brender, JD; Langlois, PH; Barlowe, S; Zhao, Y. 2016. A visual analytics approach to high-dimensional logistic regression modeling and its application to an environmental health study. In *Pacific Visualization Symposium (PacificVis)*, 2016 IEEE (pp. 136-143). IEEE.
- 34. *Zou, B; **Zhan, FB**. 2016. Air Pollution Exposure Assessment and Environmental Health Risk Analysis. In *Applications of Geospatial Information Technologies in Public Health*, Pages 111-148. Beijing, China: Higher Education Press. (book chapter in Chinese)
- 33. Shi, X; Wang, F; Zou, B; **Zhan, FB**; Xu, B; Wang, JF; Pan, J; Li, M. 2016. Applications of Geospatial Analysis in Public Health in China, Progress and Prospects. In *Applications of Geospatial Information Technologies in Public Health*, Pages 262-272. Beijing, China: Higher Education Press. (book chapter in Chinese)
- 32. **Zhan, FB**. 2015. Toward an Integrated Biomass Assessment in China. *In Proceedings of the International Conference on Computer Science and Environmental Engineering (CSEE2015)*, Pages 515-521. LANCASTER, PA: Destech Publications, Inc.
- 31. *Zhang, C; Yang, J; **Zhan, FB**; ‡Gong, X; Brender, JD; Langlois, PH; Barlowe, S. 2013. Identifying Risk Factors for Birth Defects in High Dimensional Environmental Health Data. *IEEE VIS 2013* (VIS Poster (2-page abstract))
- 30. *Zhan, FB; Cai, ZL; Zhu, Y; Zhou, JC. 2012. A Geospatial Analytical System for Mapping Global Medium-Term Earthquake Probabilities. In *Proceedings of the 2012 International Conference on Systems and Informatics (ICSAI 2012)*, pp. 2276-2279. Yantai, China, May 19-21, 2012. (doi: 10.1109/ICSAI.2012.6223507)
- 29. ‡*Yang, Y; **Zhan, FB**; Li, L. 2011. Estimating Seismic Losses of Schools Using SELENA: The Case of Wenchuan Earthquake. In *Proceedings of the 19th International Conference on Geoinformatics*, 6 pages. Shanghai, China, June 24-26, 2011. (doi: 10.1109/GeoInformatics.2011.5980908)
- 28. Hanford, EJ; *Zhan, FB. 2011. Chagas Disease: Environmental Risk Factors. In: Nriagu, JO (ed.) *Encyclopedia of Environmental Health*, Volume 1, pp. 553-565. Burlington: Elsevier.
- 27. *Zhu, HH; Luo, J; Yin, H; Zhou, XT; Huang, JZ; **Zhan, FB**. 2010. Mining Trajectory Corridors Using Frechet Distance and Meshing Grids. *Lecture Notes in Computer Science: Advances in Knowledge Discovery and Data Mining, PT I, Proceedings* 6118: 228-237. Edited by Zaki, MJ; Yu, JX; Ravindran, B; Pudi, V. Presented at 14th Pacific-Asia Conference on Knowledge Discovery and Data Mining in Hyderabad, India, June 21-24, 2010. (doi: 10.1007/978-3-642-13657-3_26)
- 26. ‡*Zou, B; Zeng, YN; Liu, HM; Zhang, HH; Qiu, YH; **Zhan, FB**. 2010. Sensitivity Analysis of AERMOD in Modeling Local Air Quality under Different Model Options. In *Proceedings of the* (2010) 4th International Conference on Bioinformatics and Biomedical Engineering (iCBBE), pp. 1-4. Chengdu, China, 18-20 June, 2010. (doi: 10.1109/ICBBE.2010.5517172)
- 25. ‡*Yu, X; **Zhan, FB**; Hu, J; Zou, Q. 2010. Radiometric Normalization for Multitemporal and Multispectral High Resolution Satellite Images Using Ordinal Conversion. In *Proceedings of the 18th International Conference on Geoinformatics*, pp. 1-4. Bejing, China, June 18-20, 2010. (doi: 10.1109/GEOINFORMATICS.2010.5568027)
- 24. *Zhou, X; Luo, J; Zhu, H; Ju, W; Fan, J; **Zhan, FB**. 2009. Models and Algorithms for Contaminated Area Detection Based on Geospatial Lifelines. In *Proceedings of the 17th International Conference on Geoinformatics*, Vols. 1 and 2, pp. 201-206. Fairfax, VA, USA. August 12-14, 2009. (doi: 10.1109/GEOINFORMATICS.2009.5293205)
- 23. *Brender, JD; **Zhan, FB**; Langlois, PH; Suarez, L. 2009. Industrial Pollution and Congenital Malformations. In: Harry Newbury and William De Lorne (Eds.), *Industrial Pollution Including Oil Spills*. Hauppauge, NY: NOVA Science Publishers, pp. 225-252.

- 22. Lewis, C; Higgins, L; Perkins, J; **Zhan, FB**; Chen, X. 2009. *Regional Transit Coordination Guidebook*. Texas Department of Transportation (Project 0-5345).
- 21. *Zhan, FB; Chen, C. 2008. Agent-Based Modeling and Evacuation Planning. In: Daniel Z. Sui (Ed.), Geospatial Technologies and Homeland Security: Research Frontiers and Future Challenges, Springer, pp. 189-208.
- 20. *Zhan, FB; Chen, C. 2008. Intercity Commute Patterns in Central Texas. In: Liu, Lin; Li, Xia; Liu, Kai; Zhang, Xinchang; Wang, Xinhao (Eds.), *Geoinformatics 2008 and Joint Conference on GIS and Built Environment: The Built Environment and Its Dynamics*. In Proceedings of the SPIE-The International Society for Optical Engineering, Vol. 7144, pp. 71442N-71442N-8.
- 19. *Lewis, C; Higgins, L.; Perkins, J.; **Zhan, FB**; Chen, X. 2007. *Regional Public Transportation Solutions for Intercity Commuting Traffic*. Technical report prepared for the Texas Department of Transportation (Project o-5345-R1). Texas Southern University; Texas Transportation Institute; Prairie View A&M University; Texas State University.
- 18. *Zhan, FB; Chen, C; Voigt, T. 2007. A Framework for Developing Left-Turn Operations Guidelines at Signalized Intersections. In *Proceedings of the 2007 International Conference on Services Systems and Services Management*, pp. 1-6. (9-11 June, 2007)
- 17. *Zhan, FB; Chen, X. 2006. GIS Models for Analyzing Intercity Commute Patterns: A Case Study of the Austin-San Antonio Corridor in Texas. Technical report prepared for the Texas Department of Transportation (Project 0-5345-R2). Texas Center for Geographic Information Science, Department of Geography, Texas State University. (available at: http://library.ctr.utexas.edu/pdfo2/5345-2.pdf)
- 16. *Zhan, FB; Lu, Y; Giordano, A; Hanford, EJ. 2005. Geographic Information System (GIS) as a Tool for Disease Surveillance and Environmental Health Research. The 2005 International Conference on Services Systems and Services Management, *Proceedings of ICSSSM'05*, Vol. 2, pp. 1465-1470.
- 15. **Zhan, FB**. 2003. Cognitive Evidence of Vagueness Associated with some Linguistic Terms in Descriptions of Spatial Relations. *Spatial Cognition & Computation* 3(2&3): 241-257. (research note)
- 14. *Pimpler, E; **Zhan, FB**. 2003. Drop by Drop: Modeling Water Demand on the Lower Colorado. *Geospatial Solutions*, 13(5): 38-41.
- 13. Yu, J; *Zhan, FB. 2003. Reliability of the Spatial Scan Statistic for Detecting Spatial Clusters in Disaggregated Data: Some Empirical Evidence. *Papers and Proceedings of Applied Geography Conference*, 26: 161-168.
- 12. *Lin, H; Gong, J; Tsou, J; Zhao, Y; Zhang, Z; **Zhan, FB**. 2002. VGE: A New Communication Platform for General Public. In: Chaitan Baru, Christophe Claramunt, Bo Huang, and Stefano Spaccapietra (Eds.), WISE Workshops 2002: Proceedings of the Third International Conference on Web Information Systems Engineering, Singapore, pp. 47-55.
- 11. **Zhan, FB**. 2002. A Fuzzy Set Model of Approximate Linguistic Terms in Descriptions of Binary Topological Relations between Simple Regions. In: Pascal Matsakis and Les M. Sztandera (Eds.), *Applying Soft Computing in Defining Spatial Relations*, Physica-Verlag, Heidelberg, Germany, pp. 179-202.
- 10. **Zhan, FB**. 2002. Monitoring Geographic Concentration of Female Breast Cancer Using Cluster Analysis: The Case of New Mexico. *Papers and Proceedings of Applied Geography Conference*, 25: 1-8.
- 9. Zhan, FB. 2001. GIS for Air Quality: It's a Particulate Matter. Geospatial Solutions, 11(5): 24.
- 8. *Zhan, FB; Larsen, R; Zhou, X. 1998. Locate Recycled Materials on the Web. *ArcUser*, October-December, 1998, pp. 26-27.

- 7. **Zhan, FB**. 1998. *Representing Networks*. In NCGIA Core Curriculum in Geographic Information Sciences, Unit o64, National Center for Geographic Information and Analysis (NCGIA), Santa Barbara, CA. (available at: http://www.ncgia.ucsb.edu/giscc/units/uo64/)
- 6. **Zhan, FB**. 1997. Topological Relations between Fuzzy Regions. In: Barrett Bryant, Janice Carroll, Dave Oppenheim, Jim Hightower, and K. M. George (Eds.), *Proceedings of the 1997 ACM Symposium on Applied Computing*, held in San Jose, CA, pp. 192-196.
- 5. *Zhan, FB; Shi, W. 1992. GIS in Higher Education: A Curriculum Perspective. In: Hui Lin (Ed.), *Proceedings of the First Conference of Chinese Professionals in GIS*, held in Buffalo, NY, July, 1992. Beijing, China: Science Press, pp. 28-40. (in Chinese)
- 4. **Zhan, FB**. 1991. Structuring the Knowledge of Cartographic Symbolization: An Object-Oriented Approach. In: David M. Mark and Denis White (Eds.), *Proceedings of the Tenth International Symposium on Computer-Assisted Cartography (Auto-Carto 10)*, Baltimore, MD, pp. 247-260.
- 3. **Zhan, FB**. 1987. Spatial Visual Variables and Spatial Resolution. *Journal of Science and Technology in Surveying and Mapping*. (in Chinese)
- 2. **Zhan, FB**. 1986. Overview of Land Management in Alberta, Canada. *Cehui Yicong*, 3: 20-32. (in Chinese)
- 1. **Zhan, FB**. 1986. Scientific and Technical Foundation of the National Cadastral System in the Soviet Union. *Cehui Yicong*, 3: 33-36. (in Chinese)

Papers in Non-Refereed Proceedings

- 13. **Zhan, FB**; Hu, JX; Yu, XM; Luo, J; Zhu, DJ. 2008. Digital City and Some Research Challenges in Earth and Space Information Technologies, *Bulletin of Advanced Technology Research* 2(6): 63-72.
- 12. **Zhan, FB**; Han, Y. 2004. Automatic Calibration of Mathematical Models for Spatial Allocation of Population Growth in Regional Water Resource Planning. In *Proceedings of the 4th International Conference on Watershed Management and Urban Water Supply*. Shenzhen, China, December 13-15, pp. 146-155.
- 11. **Zhan, FB**. 2002. GIS-Based Allocation Analysis of Regional Water Demand. In *Proceedings of Geoinfomatics*'2002: Geoinfomatics for Global Change Studies and Sustainable Development. Nanjing, China.
- 10. **Zhan, FB**. 2000. Geographers in the Real World: Some Example Employment Profiles of Geography Graduates from Southwest Texas State University. In *Proceedings of the International IT Conference on Geo-Spatial Education*, Hong Kong, China, July, 2000, pp. 223-230.
- 9. **Zhan, FB**; Han, Y. 1998. Fastest Algorithms for Computing One-to-One Shortest Paths. In *Proceedings of International Conference of Spatial Information Science and Technology (SIST '98 Wuhan)*, December 13-16, Wuhan, China, p. 489-496.
- 8. **Zhan, FB**; Larsen, R; Zhou, X. 1998. A Web-Based Recycling Markets Information System (RMIS). In *Proceedings of the 1998 ESRI User Conference*, San Diego, CA.
- 7. **Zhan, FB**. 1996. A Set of Shortest Path Algorithms That Run Fastest on Real Road Networks. In: *GIS/LIS'96 Annual Conference and Exposition Proceedings*; Bethesda, MD, USA: American Society for Photogrammetry & Remote Sensing, 1996, xv+1284 pp. 755-764.
- 6. Noon, CE; Daly, M; **Zhan, FB**. 1996. Beyond Assessment of Resources: Procurement of Woody Biomass Fuels. In *Proceedings of Bioenergy '96*, Nashville, TN, pp. 565-569.

- 5. Noon, CE; Daly, M; Graham, R; **Zhan, FB**. 1996. Transportation and Site Location Analysis for Regional Integrated Biomass Assessment (RIBA). In *Proceedings of Bioenergy '96*, Nashville, TN, pp. 487-493.
- 4. **Zhan, FB**; Mark, DM. 1993. Conflict Resolution in Map Generalization: A Cognitive Study. In *Proceedings of the Eleventh International Symposium on Computer-Assisted Cartography (Auto Carto 11)*, held in Minneapolis, MN, edited by R. McMaster and M. Armstrong, pp. 406-413.
- 3. **Zhan, FB**; Mark, DM. 1992. Object-Oriented Spatial Knowledge Representation and Processing: Formalization of Core Classes and Their Relationships. In *Proceedings of the Fifth International Symposium on Spatial Data Handling*, held in Charleston, SC, edited by P. Bresnahan, E. Corwin and D. Cowen (Columbia, SC), pp. 662-671.
- 2. **Zhan, FB**. 1991. A Knowledge-Based System for Urban Land Classification. In *Proceedings of the Second National GIS Conference*, Ottawa, Canada.
- 1. **Zhan, FB**. 1988. A Microcomputer Multipurpose Cadastral Information System. In *Proceedings of FIG Permanent Committee Conference*, Wellington, New Zealand.

Book Reviews

- 6. **Zhan, FB**. 2014. *The Economy of Green Cities*, Richard Simpson, Monika Zimmermann (Eds.). 2013. Dordrecht: Springer. *Journal of Transport Geography* 112(5): 229-229. (doi: 10.1016/j.jtrangeo.2014.03.003)
- 5. **Zhan, FB**. 2013. *Atlas of Science: Visualizing What We Know* by Katy Börner. 2010. Boston, MA: The MIT Press. *Journal of Geography* 112(5): 229-229. (doi: 10.1080/00221341.2013.775320)
- 4. **Zhan, FB**. 2011. *The Geography of Transport Systems* by Jean-Paul Rodrigue, Claude Comtois, and Brian Slack, second edition, 2009. New York, NY: Routledge, Taylor & Francis Group. *Journal of Transport Geography* 19(6): 1621–1622. (doi: 10.1016/j.jtrangeo.2011.07.014)
- 3. **Zhan, FB**. 2002. *Handbook of Logistics and Supply-Chain Management*, edited by A.M. Brewer, K.J. Button, and D.A. Hensher, 2001. Oxford, UK: Pergamon Press. *Journal of Transport Geography*, 10: 245.
- 2. **Zhan, FB**. 1996. *Location Economics: Theoretical Underpinnings and Applications* by Melvin L. Greenhut, 1995. Brookfield: Edward Elgar. *Social Science Quarterly*, 79(2): 482–483.
- 1. **Zhan, FB**. 1996. *Spatial Microeconomics: Theoretical Underpinnings and Applications* by Melvin L. Greenhut, 1995. Brookfield: Edward Elgar. *Social Science Quarterly*. 79(2): 483–484.

Reports

- 21. **Zhan, FB**; Brender, JD; Langlois, PH; Yang, J. 2015. Air Pollution-Exposure-Health Effect Indicators: Mining Massive Geographically Referenced Environmental Health Data to Identify Risk Factors for Birth Defects. Final report (2011-2015; 325 pages), US Environmental Protection Agency.
- 20. **Zhan, FB**. 2015. Air Pollution-Exposure-Health Effect Indicators: Mining Massive Geographically Referenced Environmental Health Data to Identify Risk Factors for Birth Defects. Annual report (2014-2015), US Environmental Protection Agency.
- 19. **Zhan, FB**. 2014. Air Pollution-Exposure-Health Effect Indicators: Mining Massive Geographically Referenced Environmental Health Data to Identify Risk Factors for Birth Defects. Annual report (2013-2014), US Environmental Protection Agency.
- 18. **Zhan, FB**. 2013. Air Pollution-Exposure-Health Effect Indicators: Mining Massive Geographically Referenced Environmental Health Data to Identify Risk Factors for Birth Defects. Annual report (2012-2013), US Environmental Protection Agency.

- 17. **Zhan, FB**. 2012. Air Pollution-Exposure-Health Effect Indicators: Mining Massive Geographically Referenced Environmental Health Data to Identify Risk Factors for Birth Defects. Annual report (2011-2012), US Environmental Protection Agency.
- 16. **Zhan, FB**; Lu, Y; Giordano, A; Hanford, EJ. 2006. Texas-Mexico Border Health and Environmental Security Initiative-GIS for Texas-Mexico Border Environmental Health Tracking. Technical report prepared for the Brooks City-Base Foundation. Texas Center for Geographic Information Science, Department of Geography, Texas State University.
- 15. Lewis, C; Higgins, L.; Perkins, J.; **Zhan, FB**; Chen, X. 2006. Regional Transit Coordination Guidebook. Guidebook prepared for the Texas Department of Transportation (TxDOT Project 0-5345-P1). Texas Southern University; Texas Transportation Institute; Prairie View A&M University; Texas State University.
- 14. Lewis, C; Higgins, L; Perkins, J; **Zhan, FB**. 2006. Regional Transit Coordination. Brochure prepared for the Texas Department of Transportation (TxDOT Project o-5345-P2). Texas Southern University; Texas Transportation Institute; Prairie View A&M University; Texas State University.
- 13. **Zhan, FB**; Wu, G; Silvan, J; Yao, Z; Meng, X. 2005. GIS for Sustainable Water Resource Management in the Rio Grande Basin Development of Geodatabases and Acquisition of Land Use Land Cover Data. Texas Center for Geographic Information Science, Department of Geography, Texas State University.
- 12. **Zhan, FB**; Lu, Y; Giordano, A; Hanford, EJ. 2005. Texas-Mexico Border Health Initiative. Technical report prepared for the Brooks City-Base Foundation. Texas Center for Geographic Information Science, Department of Geography, Texas State University.
- 11. **Zhan, FB**. 2002. GIS-Based Allocation Analysis of Regional Water Demand, Second Edition. Technical report prepared for the Lower Colorado River Authority (LCRA). Department of Geography, Southwest Texas State University.
- 10. **Zhan, FB**. 2001. A User Manual of WaterPlan-a GIS software package used for GIS-Based Allocation Analysis of Regional Water Supply and Demand. Prepared for the Lower Colorado River Authority (LCRA). Department of Geography, Southwest Texas State University.
- 9. **Zhan, FB**. 2000. GIS-Based Allocation Analysis of Regional Water Supply and Demand. Technical report prepared for the Lower Colorado River Authority (LCRA). Department of Geography, Southwest Texas State University.
- 8. **Zhan, FB**. 2000. A Feasibility Study to Develop GIS-Based Emission Estimation and Allocation along the Texas-Mexico Border. Technical report prepared for the Texas Natural Resources and Conservation Commission. Department of Geography, SW Texas State University.
- 7. **Zhan, FB**; Martin, I. 1999. Multiple Institutional Teaching Center (MITC) Site Location Analysis. Technical report prepared for the Office of the Vice President for Academic Affairs at Texas State. Department of Geography and Planning, Southwest Texas State University.
- 6. **Zhan, FB**; Zhou, X. 1998. Texas Recycling Markets Information System (TRMIS) Online Tutorial. Tutorial prepared for the Texas Natural Resources and Conservation Commission (TNRCC). Department of Geography and Planning, Southwest Texas State University.
- 5. **Zhan, FB**; Zhou, X. 1998. Design and Implementation Issues of the Texas Recycling Markets Information System (TRMIS). Technical report prepared for the Texas Natural Resources and Conservation Commission (TNRCC). Department of Geography and Planning, Texas State.
- 4. **Zhan, FB**. Point Matching in Small Window Image Pair in the Framework of CASSPAR. Technical Report, Centre for Computer Graphics and Mapping, Delft University of Technology, The Netherlands.

- 3. **Zhan, FB**. A Review and a Framework for Knowledge-Based Interpretation of Scanned Map Images. Technical Report, Center for Computer Graphics and Mapping, Delft University of Technology, The Netherlands.
- 2. **Zhan, FB**. Cartographic Objects and Spatial Reasoning for the Interpretation of Scanned Large Scale Topographic Map Images. Technical Report, Center for Computer Graphics and Mapping, Delft University of Technology, The Netherlands.
- 1. **Zhan, FB**. The Use of DR2 for an Integrated Automatic Digital Mapping System. Published by SOKKISHA, Japan.

Published Abstracts

- 66. †Wei, G; Zhan, FB. 2018. Spatiotemporal Variability of Personal Exposure to Traffic Emissions while the Dynamics of Human Activities is Considered. *The Annual Meeting of the Association of American Geographers (AAG)*. New Orleans, LA, USA.
- 65. †Morshed, N; Zhan, FB. 2018. Childhood cancer disparities in Texas. *The Annual Meeting of the Association of American Geographers (AAG)*. New Orleans, LA, USA.
- 64. Zhan, FB; Gong, X; Brender, JD; Langlois, P. 2018. Data-Driven Environmental Health Research. *The Annual Meeting of the Association of American Geographers (AAG)*. New Orleans, LA, USA.
- 63. tWei, G; Zhan, FB. 2017. Variability and Uncertainty Associated with Personal Environmental Exposure Assessment in Geographic Space and Time. *The Annual Meeting of the Association of American Geographers (AAG)*. Boston, MA, USA.
- 62. †Morshed, N; Zhan, FB. 2017. Late stage diagnosis factors of childhood cancer in Texas. *The Annual Meeting of the Association of American Geographers (AAG)*. Boston, MA, USA.
- 61. tWei, G; Zhan, FB. 2016. A multi-phase environmental exposure assessment framework based on the dynamics of human activities in geographic space, in the *Program of the Annual Meeting of the Association of American Geographers (AAG)*. San Francisco, CA, USA.
- 60. Brender, J; Shinde, M; Zhan, F; Langlois, P. 2013. Comparability of maternal risk factors between mothers with geocoded and ungeocoded addresses. *American Journal of Epidemiology*, 177(11 Suppl):S24.
- 59. Zhan, FB; Yang, J; Gong, X; Brender, JD; Langlois, PH. 2013. Visual Exploration of Geospatial Data to Identify Risk Factors of Birth Defects: Fetching a Trace of Bad Air in the Sky, in the *Program of the Annual Meeting of the Association of American Geographers (AAG)*. Los Angeles, CA, USA.
- 58. †Gong, X; Zhan, FB. 2013. Health Risk Assessment of TRI Toxic Air Pollutants in Texas from 1996 to 2008, in the *Program of the Annual Meeting of the Association of American Geographers (AAG)*. Los Angeles, CA, USA.
- 57. †Lin, Y; Zhan, FB. 2013. Geographic variations of racial disparities of cervical cancer mortality in Texas, in the *Program of the Annual Meeting of the Association of American Geographers (AAG)*. Los Angeles, CA, USA.
- 56. Zhan, FB; Brender, JD. 2012. GIS and Health: Maternal Residential Proximity to Superfund Sites and Low Birth Rate in Offspring, in the *Program of the Annual Meeting of the Association of American Geographers (AAG)*. New York, NY, USA.
- 55. †Gong, X; Pei, T; Zhan, FB. 2012. Clustering Methods of Trajectory Data: A Review (poster), in the *Program of the Annual Meeting of the Association of American Geographers (AAG)*. New York, NY, USA.

- 54. †Lin, Y; Zhan, FB. 2012. Geographic Disparities in Cervical Cancer Mortality in the United States, in the *Program of the Annual Meeting of the Association of American Geographers (AAG)*. New York, NY, USA.
- 53. †Yan, Y; **Zhan, FB**; Li, L. 2011. GIS-Based Analysis of Seismic Hazard in Washington State of the United States, in the *Program of the Annual Meeting of the Association of American Geographers (AAG)*. Seattle, WA, USA.
- 52. †Lin, Y; Chow, TKE; **Zhan, FB**. 2011. An Exploratory study of Vietnamese Americans in Texas using web demographic data, in the *Program of the Annual Meeting of the Association of American Geographers* (*AAG*). Seattle, WA, USA.
- 51. †Wan, N; **Zhan, FB**. 2011. Disparities of Colorectal Cancer Stage at Diagnosis in Texas, 1996-2003, in the *Program of the Annual Meeting of the Association of American Geographers (AAG)*. Seattle, WA, USA.
- 50. **Zhan, FB**; Zhu, Y; Zhou, JC. 2011. Global Surveillance of High Risk Regions of Large Earthquakes Using Satellite Gravity Data, in the *Program of the Annual Meeting of the Association of American Geographers (AAG)*. Seattle, WA, USA.
- 49. **Zhan, FB**; Zhu, Y. 2010. Gravity Measurements and Their Variations before Large Earthquakes in China: 1998-2005. In printable abstracts of *The 82nd annual meeting of the Eastern Section of the Seismological Society of America* (page 50). Boston, MA. October 17-19.
- 48. **Zhan, FB**; Zhu, Y. 2010. Timing a Large Earthquake within a 3-Year Window: The Case of the 2008 Wenchuan (M8.0) Earthquake. The 18th International Conference on Geoinformatics (Geoinformatics 2010). Beijing, China.
- 47. †Lin, Y; **Zhan, FB**; Zhu, JJ. 2010. Assessment of Mercury Pollution in Soil, in the *Program of the Annual Meeting of the Association of American Geographers (AAG)*. Washington, DC, USA.
- 46. **Zhan, FB**; Zhu Y. 2010. Earthquakes can be Forecasted, in the *Program of the Annual Meeting of the Association of American Geographers (AAG)*. Washington, DC, USA.
- 45. Brender, JD; Langlois, PH; **Zhan, FB**; Suarez, L; Canfield, MA. 2009. Environmental Hazards and Birth Defects in Texas (USA). Birth Defects Research (Part A) 85:244. (**refereed**)
- 44. †Liu, X; **Zhan, FB**. 2009. Road Selection Based on Voronoi Diagrams and 'Strokes' in Map Generalization, in the *Program of the Annual Meeting of the Association of American Geographers (AAG)*. Las Vegas, NV.
- 43. Silvan, J; Wang, L; **Zhan, FB**; Crews, KA. 2009. Multi-temporal sub-pixel change detection and analysis of invasive saltcedar: A case study along the Rio Grande, 1993-2005, in the *Program of the Annual Meeting of the Association of American Geographers (AAG)*. Las Vegas, NV.
- 42. **Zhan, FB**; Tapia, FO; Santillana. M. 2009. Estimating Small Area Population Growth Using Geographic Knowledge Guided Cellular Automata, in the *Program of the Annual Meeting of the Association of American Geographers (AAG)*. Las Vegas, NV.
- 41. **Zhan, FB**; Zhu Y. 2009. Medium-Term Earthquake Prediction Using Gravity Monitoring Data (poster), in the *Program of the American Geophysical Union (AGU), Fall Meeting 2009*, abstract No. S21A-1703. San Francisco, CA, USA.
- 40. **Zhan, FB**; Zhu Y; Hu, B; Li, Z; Yang, L; Li, T. 2009. Geovisual Analytics for Earthquake Risk Assessment & Earthquake Related Decision Support: A Research Agenda, in *Proceedings of the International Symposium on Earthquake Seismology and Earthquake Predictability (ISESEP)*. Beijing, China.
- 39. Zhu Y; **Zhan, FB**; Liang W; Xu, Y. 2009. Medium-Term Prediction of the Wenchuan Earthquake Using Mobile Gravity Survey Data, in *Proceedings of the International Symposium on Earthquake Seismology and Earthquake Predictability (ISESEP)*. Beijing, China.

- 38. Brender, JD; Suarez, L; Langlois, PH; Steck, M; **Zhan, FB**; Moody, K. 2008. Are Maternal Occupation and Residential Proximity to Industrial Sources of Pollution Related? *American Journal of Epidemiology* 167(11): S102-S102. (**refereed**)
- 37. †Collins, W; **Zhan, FB**; Chen, X. 2008. Evacuation Microsimulation of Diurnal Population Distributions, in the *Program of the Annual Meeting of the Association of American Geographers (AAG)*. Boston, MA. April 17
- 36. †Tian, N; Wilson, JG; **Zhan, FB**. 2008. Regional Cluster Analysis of Female Brest Cancer at the County Level of the United States, in the *Program of the Annual Meeting of the Association of American Geographers (AAG)*. Boston, MA.
- 35. †Wan, N; **Zhan, FB**. 2008. Complexity of spatial networks, in the *Program of the Annual Meeting of the Association of American Geographers (AAG)*. Boston, MA.
- 34. **Zhan, FB**. 2008. Spatial Cluster Analysis and Cancer Mortality Hot Spots in Texas. *Annals of the Academy of Medicine, Singapore* 37(5): S32 (Supplement). (Proceedings of the Singapore Disease Management Conference 2008) (**refereed**)
- 33. **Zhan, FB**. 2008. Spatial Cluster Analysis and Cancer Mortality Hot Spots in Texas, in *Proceedings of the Singapore Disease Management Conference* 2008. Singapore.
- 32. †Yao, ZJ; **Zhan, FB**. 2007. Visual Exploration and Spatial Analysis for Detecting Clusters of Line Segments (poster), in the *Program of the Annual Meeting of the Association of American Geographers* (AAG). San Francisco, CA.
- 31. **Zhan, FB**; Chen, X. 2007. Intercity and Urban-Rural Commute Flows in Central Texas, in the *Program* of the Annual Meeting of the Association of American Geographers (AAG). San Francisco, CA.
- 30. Brender, JD; **Zhan, B**; Suarez, L; Langlois, PH. 2006. Residential Proximity to Waste Sites and Industrial Facilities and Chromosomal Anomalies in Offspring. *American Journal of Epidemiology*, 163 (11): S156-S156. (**refereed**)
- 29. †Chen, X; **Zhan, FB**. 2006. Commute Patterns in Central Texas, in the *Program of the Annual Meeting of the Association of American Geographers (AAG)*. Chicago, IL.
- 28. †Wu, G; **Zhan, FB**. 2006. Climate Change and Water Resources Vulnerability in Texas, in the *Program* of the Annual Meeting of the Association of American Geographers (AAG). Chicago, IL.
- 27. †Wu, G; **Zhan, FB**. 2006. GIS, Geospatial Analysis, and Modeling for Sustainable Water Resource Management. Fifth Annual Rio Grande Initiatives Conference. Ruidoso.
- 26. **Zhan, FB**; Brender, JD; Suarez, L; Langlois, PH. 2006. GIS-Augmented Environmental Health Research, in *Proceedings of the 4th International Academic Conference on Environmental and Occupational Medicine*. Kunming, China, October 16-19, p. 38. (**refereed**)
- 25. **Zhan, FB**; Brender, JD; Suarez, L; Langlois, PH. 2006. GIS-Augmented Environmental Epidemiology Research (poster), in *Program of the 14th International Conference on Geoinformatics (Geoinformatics 2006)*. Wuhan, China.
- 24. **Zhan, FB**; Chen, X; Meaker, J. 2006. Agent-Based Modeling and Analysis of Hurricane Evacuation Procedures for the Florida Keys, in the *Program of the Annual Meeting of the Association of American Geographers (AAG)*. Chicago, IL.
- 23. **Zhan, FB**. 2005. The Use of Geographic Information Systems for Sustainable Water Resource Management. In *Proceedings of the International Seminar of the Precious Water Environment*, Shimane University, Matsue, Japan, January 26, pp. 83-92. (**refereed**)

- 22. **Zhan, FB**; 2005. GIS for Sustainable Water Resource Management in the Rio Grande Basin–Development of Geodatabases and Acquisition of Land Use Land Cover Data. Fourth Annual Rio Grande Initiatives Conference. Alpine, TX.
- 21. **Zhan, FB**; Brender, JD; Suarez, L; Langlois, PH; 2005. GIS-Augmented Environmental Epidemiology Research: Residential Proximity to Hazardous Waste Sites and Congenital Malformations in Offspring, in the *Program of the Annual Meeting of the Association of American Geographers (AAG)*. Denver, CO.
- 20. †Chen, X; **Zhan**, **FB**. 2004. Agent-Based Modeling and Simulation of Urban Evacuation: Relative Effectiveness of Simultaneous and Staged Evacuation Strategies. The 83rd Annual Meeting of Transportation Research Board. Washington, DC.
- 19. †Wu, G; **Zhan, FB**. 2004. Hydrologic Modeling Using Remote Sensing and GIS A Case Study in the San Marcos Basin?, in the *Program of the Annual Meeting of the Association of American Geographers* (*AAG*). Philadelphia, PA.
- 18. **Zhan, FB**. 2004. Automatic Calibration of Mathematical Models for Spatial Allocation of Population Growth in Regional Water Resource Planning. The 4th International Conference on Watershed Management and Urban Water Supply. Shenzhen, China.
- 17. **Zhan, FB**. 2004. What are the Weakest Links in Intermodal Transportation?, in the Program of the Annual Meeting of the Association of American Geographers (AAG). Philadelphia, PA.
- 16. **Zhan, FB**; Brender, J; Han, Y; De Lima, I; Suarez, L; Langlois, P. 2004. GIS-Based Spatial Search for Environmental Health Research: Environmental Hazards and Birth Defects in Texas. CDC 2004 Environmental Health Tracking Conference. Philadelphia, PA.
- 15. **Zhan, FB**; Wu, G. 2004. Spatially Distributed Hydrologic Modeling Using Information Derived from Remote Sensing Images and Other Geospatial Data. International Conference on Water Security for Future Generations. Changchun, Jilin, China.
- 14. †Chen, X; **Zhan, FB**. 2003. Mapping the Vulnerability of Potential Toxic Substance Release from Industrial Facilities under Emergency Situations: A Case Study of Galveston, in the *Program of the Annual Meeting of the Association of American Geographers (AAG)*. New Orleans, LA.
- 13. †Wu, G; **Zhan, FB**. 2003. Spatial Data Mining with Improved GIS Tools, in the *Program of the Annual Meeting of the Association of American Geographers (AAG)*. New Orleans, LA.
- 12. **Zhan, FB**; Chen, X. 2003. Micro-Simulation of Urban Evacuation Strategies, in the *Program of the Annual Meeting of the Association of American Geographers (AAG)*. New Orleans, LA.
- 11. †Wilson, JG; **Zhan**, **FB**; Brender, JD; Bryan, D. 2002. Geographic concentrations of prostate cancer incidence in Texas and their relationship to socioeconomic conditions, in the *Program of the Annual Meeting of the Association of American Geographers (AAG)*. Los Angeles, CA.
- 10. **Zhan, FB**. 2001. Geographic Distributions of Cancer Mortality in Texas, in the *Program of the Annual Meeting of the Association of American Geographers (AAG)*. New York, NY.
- 9. **Zhan, FB**. 2001. How Much is Region Q Covering Region R 'a Little Bit,' 'Somewhat,' or 'Nearly Completely?' In: Matteo Cristani and Brandon Bennett (Eds.), Proceedings of SVUG01: The Joint COSIT-FOIS Workshop on Spatial Vagueness, Uncertainty and Granularity, Ogunquit, ME, October 15-16, 2001. (**refereed**)
- 8. **Zhan, FB**. 2000. Quantification of Linguistic Modifiers in Descriptions of the Topological Relation "Region A Covers Region B." GIScience 2000: The First International Conference on Geographic Information Science. Savannah, GA, October 28-31. (**refereed**)

- 7. **Zhan, FB**. 1997. A New Method for Spatial Point Pattern Analysis, in the *Program of the Annual Meeting of the Association of American Geographers (AAG)*. Fort Worth, TX.
- 6. Zhan, FB. 1997. Approximation of Topological Relations between Fuzzy Regions Satisfying a Linguistically Described Query. In: Stephen C. Hirtle and Andrew U. Frank (eds.) Lecture Notes in Computer Science 1329. Spatial Information Theory: A Theoretical Basis for GIS. International Conference COSIT'97. Laurel Highlands, Pennsylvania, USA, October15-18, 1997. Springer, Berlin, 509-510. (refereed)
- 5. **Zhan, FB**. 1997. GIS-Transportation and the Private Sector: Building Common Grounds between Universities and Private Sectors, in the *Program of the Annual Meeting of the Association of American Geographers (AAG)*. Fort Worth, TX.
- 4. **Zhan, FB**. 1996. A Spatial Decision Support System For Wood Fuel Procurement, in the *Program of the Annual Meeting of the Association of American Geographers (AAG)*. Charlotte, NC.
- 3. **Zhan, FB**; Noon, CE. 1995. Shortest Paths Algorithms: A Further Evaluation Using Real World Road Networks. In: F. Andrew Schoolmaster (ed.) *Papers and Proceedings of Applied Geography Conferences*, Volume 18, p. 231. (refereed).
- 2. **Zhan, FB**. 1995. A Family of Spatio-Temporal Competitive Location Models in Mobile Trading, in the *Program of the Annual Meeting of the Association of American Geographers (AAG)*. Chicago, IL.
- 1. **Zhan, FB**. 1995. Shortest Path Algorithms: An Evaluation Using Real Road Networks, in *Program of the 18th Applied Geography Conference*. Crystal City, Arlington, VA.

LECTURES OR CONFERENCE PRESENTATIONS

Invited Seminars/Lectures/Presentations

- 85. Zhan, FB; Morshed, N; Kluz, N; Candelaria, B; Baykal-Caglar, E; Khurshid, A; Pignone, MP. 2019. A spatially enhanced multi-faceted intervention to increase colorectal cancer screening rates in vulnerable populations in Travis County. LCI Basic–Translational Research Retreat. University of Texas at Austin Dell Medical School LIVESTRONG Cancer Institutes (LCI). Austin, TX, Nov. 19.
- 84. Zhan, FB. 2019. Spatial Insights for Health Improvement: Case Studies in Texas. Keynote Presentation at the GIS Day in 2019, Texas Department of State Health Services. Austin, TX, November 13.
- 83. Zhan, FB; Morshed, N; Kluz, N; Candelaria, B; Baykal-Caglar, E; Khurshid, A; Pignone, MP. 2019. How Spatial Insights May Enhance Intervention for Colorectal Cancer Screening. Clinical Research Retreat: Strategies to Advance Cancer Care Through Clinical Research. University of Texas at Austin Dell Medical School LIVESTRONG Cancer Institutes (LCI). Austin, TX, October 28.
- 82. Zhan, FB. 2019. Panel member, Academic Success for International Students Shop Talks. Texas State University Graduate College. San Marcos, TX. August 30.
- 81. Zhan, FB. 2018. A Spatially Enhanced Multi-Faceted Intervention to Increase Colorectal Cancer Screening Rates in Vulnerable Populations in Travis County. Presentation made to the Research Committee of CommUnityCare Health Centers, Austin, TX. July 10.
- 80. Zhan, FB. 2018. Spatial Data Science and Applications: Progress and Challenges. Wuhan University, Wuhan, China. May 22.
- 79. Zhan, FB. 2017. Geospatial Data Science and Knowledge Discovery in Environmental Health Research. The 5th Annual 2017 International Conference on Geo-Spatial Knowledge and Intelligence [GSKI2017], Chiang Mai, Thailand. December 9. (**Keynote Presentation**)

- 78. Zhan, FB. 2017. Presentation as a panel member. PROGRAM FOR EXCELLENCE IN TEACHING AND SCHOLARSHIP (PETS) Graduate Education and Undergraduate Research. Texas State University. San Marcos, TX. October 27.
- 77. Zhan, FB. 2017. Presentation as a panel member. Mentoring Graduate Students. Graduate College, Texas State University, San Marcos, TX. March 8.
- 76. Zhan, FB. 2016. Spatially Informed Strategies for Targeted Health Promotion, University of Texas Health Science Center at San Antonio, August 11.
- 75. Zhan, FB. 2016. Spatially Informed Strategies for Targeted Health Promotion, Central South University, China, May 16.
- 74. Zhan, FB. 2015. Data-Driven Spatial Strategies for Targeted Health Promotion. Center for Geoinformation Engineering, Division of Land Management, Shenzhen, May 21.
- 73. Zhan, FB. 2015. Spatial Insights for Health Disparity Reduction: Where to Intervene. Division of Cancer Prevention and Population Science Grand Rounds. The University of Texas MD Anderson Cancer Center, Houston, TX, USA. March 11.
- 72. Zhan, FB. 2014. Brief on GIS applications for health data analysis through a teleconference, National Academy of Sciences Committee on the ANALYSIS OF CANCER RISKS IN POPULATIONS NEAR NUCLEAR FACILITIES: PHASE 2 PILOT PLANNING, San Marcos, TX. February 18.
- 71. Zhan, FB. 2013. GIS and its Applications in Health Services, Urban Evacuation, and Disaster Management. Shanxi Provincial Bureau of Earthquake Administration, Xi'An, China. June 9
- 70. Zhan, FB. 2013. Earthquake Forecast based on Gravity Change. Second Crust Monitoring and Application Center, China Earthquake Administration, Xi'An, China. June 7
- 69. Zhan, FB. 2012. Texas State Research Initiatives in GIS and Health. Department of Geography, Texas State University, TX. March 21
- 68. Zhan, FB. 2010. Gravity Monitoring and Earthquake Forecast: New Evidence from China. Department of Civil Engineering, Purdue University, West Lafayette, IN. April 12
- 67. Zhan, FB. 2010. Are Earthquakes Really Unpredictable? Department of Geography, Texas State University-San Marcos. February 5
- 66. Zhan, FB. 2009. GIS-Augmented Environmental Health Research. Department of Land Surveying & Geo-Informatics, The Hong Kong Polytechnic University, Hong Kong, China. November 2
- 65. Zhan, FB. 2009. Big Country, Advanced Science and Technology, and Forever Lasting Work. Wuhan University, Wuhan, China. October 26
- 64. Zhan, FB. 2009. GIS-Augmented Environmental Health Research. Department of Biology, Texas Lutheran University, Seguin, Texas. October 8
- 63. Zhan, FB. 2009. Maternal Residential Proximity to Superfund Sites & Low Birth Weight in Offspring. Texas Department of State Health Services, Austin, Texas. September 22
- 62. Zhan, FB. 2009. Geographic Information Science and Technology for Hazards and Environmental Health Research. Shandong University of Science and Technology, Qingdao, China. July 3
- 61. Zhan, FB. 2009. Recent Advancement of Earth and Space Information Technologies and Their Potential Applications in Earthquake Risk Analysis and Decision-Support. Sichuan Earthquake Administration, Chengdu, China. June 8

- 60. Zhan, FB. 2009. How to Become a Beginning Scholar. Central South University, Changsha, China. June 17
- 59. Zhan, FB. 2009. Transportation Analysis and Research. Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, Shenzhen, China. June 3
- 58. Zhan, FB. 2008. Digital City, Extreme Events, and Geospatial Information Technologies for Emergency Planning and Crisis Management. Workshop on Digital City to Digital Life: Digital City Monitoring and Emergency Management. Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, Shenzhen, China. October 25 (keynote presentation)
- 57. Zhan, FB. 2008. Geospatial Analysis and Computation: Some Example Applications. Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, Shenzhen, China. June 30
- 56. Zhan, FB. 2008. Human-Environmental Science and Geographic Information Science: Some Theoretical and Methodological Issues. National Key Laboratory for Information Engineering in Surveying, Mapping and Remote Sensing, Wuhan University, China. June 18
- 55. Zhan, FB. 2008. GIS and Disaster Management. Shanxi Provincial Bureau of Earthquake Administration, Xi'An, China. May 5
- 54. Zhan, FB. 2008. Human-Environmental Science and Geographic Information Science: Some Theoretical and Methodological Issues. Second Crust Monitoring and Application Center, China Earthquake Administration, Xi'An, China. May 4
- 53. Zhan, FB. 2008. Regional Climate Change and its Impacts on Water Resources in Texas. Central South University, Changsha, China. April 15
- 52. Zhan, FB. 2007. Agent-Based Modeling of Network Dynamics for Evacuation Planning. Institute for Geoinformatics, University of Münster, Münster, Germany. December 18
- 51. Zhan, FB. 2007. Transportation Analysis: Regional Integrated Biomass Assessment (RIBA). Video Conference Lecture for the Mexican National Institute of Statistics and Geographic Information (INEGI) at the Center for Geography and Geographic Information Science (CentroGeo), CONACYT (Mexican National Science Foundation). December 7
- 50. Zhan, FB. 2007. GIS and Spatial Analysis for Environmental Health Research. Video Conference Lecture for the Mexican National Institute of Statistics and Geographic Information (INEGI) at the Center for Geography and Geographic Information Science (CentroGeo), CONACYT (Mexican National Science Foundation). December 7
- 49. Zhan, FB. 2007. GIS and Environmental Health Research: Visual Exploration of Geospatially-Referenced Health Data with Hundreds of Dimensions. Center for Geography and Geographic Information Science (CentroGeo), CONACYT (Mexican National Science Foundation). December 5
- 48. Zhan, FB. 2007. Visual Exploration of Environmental Health Data. Geospatial Technologies and Public Health: Mapping Disease, Promoting Health. College Station, Texas, USA. November 17 (plenary speech)
- 47. Zhan, FB. 2007. Research Challenges in High Performance Computing for Transportation. National Annual Conference on High Performance Computing, HPC China 2007, Shenzhen, China. October 27 (plenary speech)
- 46. Zhan, FB. 2007. Microsimulation of Urban Evacuation. Wuhan University, Wuhan, China. June 15
- 45. Zhan, FB. 2007. Geographic Information Systems and Transportation Analysis. Heilongjiang Institute of Technology, Haerbin, China. June 9

- 44. Zhan, FB. 2007. Geographic Information Systems and Transportation Analysis. Northeast Normal University, Changchun, China. June 4
- 43. Zhan, FB. 2007. Geographic Information Systems and Transportation Analysis. Northeastern University, Shenyang, China. June 1
- 42. Zhan, FB. 2007. Microsimulation as a Means to Understand the Complexity of Urban Evacuation. Tsinghua University, Beijing, China. May 29
- 41. Zhan, FB. 2007. Microsimulation of Urban Evacuation. Central South University, Changsha, China. May 25
- 40. Zhan, FB. 2007. Agent-Based Modeling and Simulation of Network Dynamics for Evacuation Planning. Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, Shenzhen, China. May 24
- 39. Zhan, FB. 2007. GIS and Spatial Analysis for Epidemiological Research. Health Science Center, University of North Texas, Fort Worth, TX. February 26
- 38. Zhan, FB. 2006. GIS-Augmented Environmental Health Research. Central South University, Changsha, China. October 23
- 37. Zhan, FB. 2006. GIS-Augmented Environmental Health Research. The 4th International Academic Conference on Environmental and Occupational Medicine. Kunming, China. October 18. (plenary speech)
- 36. Zhan, FB. 2006. GIS and Environmental Epidemiology: Maternal Residential Proximity to Industrial Facilities and Congenital Malformations in Offspring. East-West Center, Hawaii. June 30
- 35. Zhan, FB. 2006. The Potential of GIScience in Helping Answer Big Scientific Questions. The State Key Laboratory of Information Engineering in Surveying, Mapping and Remote Sensing (LIESMARS), Wuhan University, China. May 27
- 34. Zhan, FB. 2006. The Role of GIScience in Helping Answer Big Scientific Questions in Human Environmental Sciences. Conference of Scientific Week, Central South University, Changsha, China. May 12
- 33. Zhan, FB. 2006. GIS and its Applications in Transportation and Environmental Health Research. Department of Computer Science, Texas State University–San Marcos. April 28
- 32. Zhan, FB. 2006. GIS-Augmented Environmental Health Research. Department of Earth and Environmental Science, University of Texas at San Antonio. February 7
- 31. Zhan, FB. 2005. Global Environmental Change, Human Health, and GIScience. Center for Geography and Geographic Information Science (CentroGeo), CONACYT (Mexican National Science Foundation). December 8
- 30. Zhan, FB. 2005. GIS-Based Disease Mapping and Modeling. U.S. Air Force Institute of Operational Health, Brooks City-Base, San Antonio, TX. August 5
- 29. Zhan, FB. 2005. Global Environmental Change, Human Health, GIScience What Are the Connections? Central South University, Changsha, China. June 27
- 28. Zhan, FB. 2005. GIS-Augmented Human Environmental Research: Case Studies in Birth Defects Research and Hurricane Evacuation. State Key Laboratory of Resources and Environmental Information System (LREIS), Chinese Academy of Sciences. June 9
- 27. Zhan, FB. 2004. A GIS-Enabled Analysis of Pricing Strategies for the Procurement of Renewable Energy Materials. Central South University, Changsha, Hunan, China. December 10

- 26. Zhan, FB. 2004. Health and the Environment: GIS-Augmented Environmental Epidemiology for Birth Defects Research. University of Illinois at Carbondale, IL. October 26
- 25. Zhan, FB. 2004. GIScience in the United States: Applications and Research Frontiers. Heilongjiang Institute of Seismology Research. Haerbin, Heilongjiang, China. July 29
- 24. Zhan, FB. 2003. GIScience and Environmental Health Research at Texas State University. The School of Rural Public Health, South Texas Center, Texas A&M University System Health Science Center, McAllen, TX. August 14
- 23. Zhan, FB. 2003. Spatial Data Mining for Environmental Health. CentroGeo, CONACYT, Mexico City, Mexico. July 31
- 22. Zhan, FB. 2003. Environment and Human Health: The Case of Cancer Mortality and Birth Defects in Texas. Houston Advanced Research Center (HARC), Houston, TX. January 9
- 21. Zhan, FB. 2002. GIS and Intelligent Transportation Systems. The State Key Laboratory of Information Engineering in Surveying, Mapping and Remote Sensing (LIESMARS), Wuhan University, China. May 17
- 20. Zhan, FB. 2002. GIS Applications in Land Management in the USA. Shenzhen Municipal Planning and Land Information Center, Shenzhen, China. April 12
- 19. Zhan, FB. 2002. Geographic Dimensions of Biomass and Bioenergy. Department of Geography, The Chinese University of Hong Kong, China. March 21
- 18. Zhan, FB. 2002. GIS and Health Research. Joint Laboratory for Geoinformation Science, The Chinese University of Hong Kong, Hong Kong, China. March 19
- 17. Zhan, FB. 2002. Biomass to Energy Supply Chain Management. Joint Laboratory for Geoinformation Science, The Chinese University of Hong Kong, Hong Kong, China. March 13
- 16. Zhan, FB. 2002. GIS: An Overview of Application Areas and Research Frontier. Guangdong Institute of Land Surveying and Planning, China. February 28
- 15. Zhan, FB. 2002. An Overview of GIS Application Areas in the United States. Tianjin Information Center of Critical Geospatial Infrastructure, Tianjin, China. February 4
- 14. Zhan, FB. 2000. GIS-Based Sex Offender Neighborhood Notification. Presentation to the Staff of the Crime Records Services of the Texas Department of Public Safety (TDPS), Austin, TX. November 1
- 13. Zhan, FB. 2000. GIS-Based Estimation and Allocation of Criteria Pollutants Emissions. Texas Natural Resource Conservation Commission (TNRCC). Austin, TX, August 25
- 12. Zhan, FB. 1999. GIS and Crime Analysis. Presentation to the Staff of the Criminal Law Enforcement Division of the Texas Department of Public Safety (TDPS), Austin, TX. October 5
- 11. Zhan, FB. 1999. GIS and its Potential Applications in Highway Patrol Planning. Presentation to the Staff of the Traffic Law Enforcement Division of the Texas Department of Public Safety (TDPS), Austin, TX. September 24
- 10. Zhan, FB. 1999. GIS Solutions for the Identification of the Location of Texas Sex Offenders. Presentation to the Staff of the Crime Record Division of the Texas Department of Public Safety (TDPS), Austin, TX. September 2
- 9. Zhan, FB. 1999. Texas Data Center for Crime Mapping and Analysis. Presentation to the Director of the Texas Department of Public Safety, Austin, TX. April 9

- 8. Zhan, FB. 1998. Texas Data Center for Crime Mapping and Analysis. Presentation to Representative Henry Cuellar, Laredo, TX. October 19
- 7. Zhan, FB. 1998. Multiple-Institution Teaching Center (MITC) Site Location Analysis. Texas State President Cabinet. San Marcos, TX. April 16
- 6. Zhan, FB. 1997. A Web-Based Texas Recycling Markets Information System (RMIS). Presentation to Houston-Galveston Area Council of Government, TX. May 8
- 5. Zhan, FB. 1997. A Web-Based Texas Recycling Markets Information System (RMIS). Presentation to Permian Basin Council of Government, Midland, TX. April 25
- 4. Zhan, FB. 1997. A Web-Based Texas Recycling Markets Information System (RMIS). Presentation to North Texas Council of Government, Dallas, TX. April 11
- 3. Zhan, FB. 1996. A New Method For Cluster Detection in Spatial Point Patterns. Department of Mathematics, Texas State University, San Marcos, TX. March 27
- 2. Zhan, FB. 1995. A Spatial Decision Support System for Wood Fuel Procurement. Department of Geography, Southwest Texas State University, San Marcos, TX. April 27
- 1. Zhan, FB. 1994. Spatio-Temporal Location Theory of Mobile Trading. Management Science Program, The University of Tennessee, Knoxville, TN. September 16

Conference Presentations

[Note: Zhan was the presenter unless a different name is marked by \uparrow .]

- 111. Zhan, FB; Yang, M; Liu, Y; Kluz, N; Olmstead, TA; Pignone, MP. 2022. Geospatial Data Science and Cancer Prevention: Improving CRC Screening Programs Through Targeted Intervention (poster). LCI Cancer Prevention and Control Symposium: Substance Use Disorders in Cancer. Austin, TX, USA. April 28.
- 110. Gong, X; Zhan, FB. 2021. Industrial Air Pollution and Low Birth Weight: A Case-Control Study Using Big Geographic Data. *The 28th International Conference on Geoinformatics CPGIS Annual Conference*. November 2, 2021. (virtual)
- 109. Yang, M; Zhan, FB; Lin, Y. 2021. Spatial Accessibility of Primary Care Facilities in Texas (poster). *The Annual Meeting of the American Association of Geographers (AAG)* (virtual).
- 108. Zhan, FB; Gong, X. 2019. Geospatial Data Science and Health Research (poster presentation). *The Annual Meeting of the American Association of Geographers (AAG)*. Washington, DC, USA, April 5.
- 107. Zhan, FB. 2018. Cervical Cancer Disparities in Texas, 1995-2011. Race, Ethnicity, and Place Conference, *IX*th Conference. Austin, TX, USA, October 25.
- 106. Lu, Y; Zhan, FB. 2018. Understanding health and healthcare through geographic lens. *GIS & Health Conference*, Texas State University, Department of Geography, Texas State University Round Rock Campus, Austin, TX, USA, May 17.
- 105. †Morshed, N; Zhan, FB. 2018. Childhood cancer disparities in Texas. *The Annual Meeting of the American Association of Geographers (AAG)*. New Orleans, LA, USA, April 13.
- 104. †Wei, G; Zhan, FB. 2018. Spatiotemporal Variability of Personal Exposure to Traffic Emissions while the Dynamics of Human Activities is Considered. *The Annual Meeting of the American Association of Geographers (AAG)*. New Orleans, LA, USA, April 12.
- 103. Zhan, FB; Gong, X; Brender, JD; Langlois, P. 2018. Data-Driven Environmental Health Research. *The Annual Meeting of the American Association of Geographers (AAG)*. New Orleans, LA, USA, April 10.

- 102. Zhan, FB. 2017. Spatially Informed Strategies for Cancer Intervention. *The 25th International Conference on Geoinformatics*. Buffalo, NY, USA, August 3.
- 101. tWei, G; Zhan, FB. 2017. Variability and Uncertainty Associated with Personal Environmental Exposure Assessment in Geographic Space and Time. *The Annual Meeting of the American Association of Geographers (AAG)*. Boston, MA, USA, April 7.
- 100. †Morshed, N; Zhan, FB. 2017. Late stage diagnosis factors of childhood cancer in Texas. *The Annual Meeting of the American Association of Geographers (AAG)*. Boston, MA, USA, April 8.
- 99. Zhan, FB; Lu, Y. 2017. Geospatial Data Science and Health Geography. *Health Scholar Showcase*. Texas State University, San Marcos, TX. February 10.
- 98. Castro-Arellano, I; Rohde, R; Zhan, FB. 2017. Texas State research addresses diverse impacts of the environment on health. *Health Scholar Showcase*. Texas State University, San Marcos, TX. February 10.
- 97. Zhan, FB. 2015. Toward Integrated Biomass Assessment in China. 2015 International Conference on Energy and Environmental Systems Engineering. Beijing, China, May 18.
- 96. †Gong, X; Zhan, FB; Brender, HD, Langlois, PH; Lin, Y. 2015. The Emission Weighted Proximity Model Performance for Estimating Long Term Air Pollution Exposure Risks In Large Geographic Areas. *The Annual Meeting of the American Association of Geographers (AAG)*. Chicago, IL, USA, April 24.
- 95. †Lin, Y; Zhan, FB. 2014. GIS and Health: Cervical Cancer Disparities in Texas. *The Annual Meeting of the American Association of Geographers (AAG)*. Tampa, FL, USA, April 11.
- 94. †Gong, X; Chow, TE; Zhan, FB. 2014. The Importance of "Space" in Strategies of Team Sports: An Agent-based Modeling Approach. *The Annual Meeting of the American Association of Geographers* (AAG). Tampa, FL, USA, April 9.
- 93. Zhan, FB; Cai, ZL; Zhu, Y; Zhou, JC. 2014. A Geospatial Analytical System for Medium-Term Earthquake Probability Estimation. *The Annual Meeting of the American Association of Geographers* (AAG). Tampa, FL, USA, April 9.
- 92. Zhan, FB; Yang, J; Brender, JD; Langlois, PH; Gong, Xi; Zhang, C. 2013. Computational Environmental Epidemiology for Identifying Risk Factors of Birth Defects from Toxic Air Pollutants. *The Community Indicators Consortium Impact Summit* 2013. Chicago, IL, October 17.
- 91. Zhan, FB; Yang, J; Brender, JD; Langlois, PH; Gong, Xi; Zhang, C. 2013. Computational Environmental Epidemiology: Searching for Possible Associations between Maternal Exposure to Toxic Air Pollutants and Malformation in Offspring, *GeoComputation* 2013. Wuhan, China, May 23
- 90. †Lin, Y; Zhan, FB. 2013. Geographic variations of racial disparities of cervical cancer mortality in Texas, *The Annual Meeting of the American Association of Geographers (AAG)*. Los Angeles, CA, USA, April 13
- 89. †Gong, X; Zhan, FB. 2013. Health Risk Assessment of TRI Toxic Air Pollutants in Texas from 1996 to 2008, *The Annual Meeting of the American Association of Geographers (AAG)*. Los Angeles, CA, USA, April 12
- 88. Zhan, FB (session chair). 2013. Honoring the Scholarship of Professor David M. Mark, *The Annual Meeting of the American Association of Geographers (AAG)*. Los Angeles, CA, USA, April 11
- 87. Zhan, FB; Yang, J; Gong, X; Brender, JD; Langlois, PH. 2013. Visual Exploration of Geospatial Data to Identify Risk Factors of Birth Defects: Fetching a Trace of Bad Air in the Sky, *The Annual Meeting of the American Association of Geographers (AAG)*. Los Angeles, CA, USA, April 10

- 86. Zhan, FB; Cai, ZL; Lu, ZY; Zhu, YQ. 2012. A GIS Augmented Medium–Term Earthquake Forecast System. *The 20th International Conference on Geoinformatics (Geoinformatics 2012)*. Hong Kong, China. June 16 (recorded presentation played by Xingjian Liu at the conference)
- 85. Zhan, FB; Cai, ZL; Zhu, Y; Zhou, JC. 2012. A Geospatial Analytical System for Mapping Global Medium-Term Earthquake Probabilities. In *Proceedings of the 2012 International Conference on Systems and Informatics (ICSAI 2012)*, Yantai, China, May 20
- 84. Zhan, FB; Brender, JD. 2012. GIS and Health: Maternal Residential Proximity to Superfund Sites and Low Birth Rate in Offspring. *Annual Meeting of the American Association of Geographers (AAG)*. New York, NY. February 27
- 83. †Gong, X; Pei, T; Zhan, FB. 2012. Clustering Methods of Trajectory Data: A Review (poster). *Annual Meeting of the American Association of Geographers (AAG)*. New York, NY. February 26
- 82. †Lin, Y; Zhan, FB. 2012. Geographic Disparities in Cervical Cancer Mortality in the United States. *Annual Meeting of the American Association of Geographers (AAG)*. New York, NY. February 25
- 81. Zhan, FB; Brender, JD; Zou, B. 2011. GIS Augmented Human-Environmental Science Research: Maternal Residential Proximity to Superfund Sites and Low Birth Rate in Offspring. *Annual Meeting of the American Association of Geographers (AAG), Southwest Division (SWAAG)*, Austin, TX. Nov. 11
- 80. †Lin, Y; Chow, TKE; Zhan, FB. 2011. An Exploratory study of Vietnamese Americans in Texas using web demographic data. *Annual Meeting of the American Association of Geographers (AAG)*. Seattle, WA. April 16
- 79. Zhan, FB; Zhu, Y; Zhou, JC. 2011. Global Surveillance of High Risk Regions of Large Earthquakes Using Satellite Gravity Data. *Annual Meeting of the American Association of Geographers (AAG)*. Seattle, WA. April 14
- 78. †Yang, Y; Zhan, FB; Li, L. 2011. GIS-Based Analysis of Seismic Hazard in Washington State of the United States. *Annual Meeting of the American Association of Geographers (AAG)*. Seattle, WA. April 13
- 77. †Wan, N; Zhan, FB. 2011. Disparities of Colorectal Cancer Stage at Diagnosis in Texas, 1996-2003. *Annual Meeting of the American Association of Geographers (AAG)*. Seattle, WA. April 13
- 76. Zhan, FB; Zhu, Y. 2010. Gravity Measurements and Their Variations before Large Earthquakes in China: 1998-2005. *The 82nd annual meeting of the Eastern Section of the Seismological Society of America*. Boston, MA. October 18.
- 75. Zhan, FB; Zhu, Y. 2010. Timing a Large Earthquake within a 3-Year Window: The Case of the 2008 Wenchuan (M8.0) Earthquake. *The 18th International Conference on Geoinformatics (Geoinformatics 2010)*. Beijing, China. June 20
- 74. Yu, X. Zhan, FB; †Hu, J; Zou, Q. 2010. Radiometric Normalization for Multitemporal and Multispectral High Resolution Satellite Images Using Ordinal Conversion. *The 18th International Conference on Geoinformatics (Geoinformatics 2010)*. Bejing, China. June 19
- 73. †Tian, N; Goovaerts, P; Zhan, FB. 2010. Influence of late stage presentation of female breast cancer on racial disparities in mortality. *Annual Meeting of the American Association of Geographers (AAG)*. Washington, DC. April 16
- 72. tWan, N; Zhan, FB. 2010. Socioeconomic disparities in prostate cancer mortality and the impact of geographic scale. *Annual Meeting of the American Association of Geographers (AAG)*. Washington, DC. April 16
- 71. †Lin, Y; Zhan, FB; Zhu, JJ. 2010. Assessment of Mercury Pollution in Soil in a City in Southern China. *Annual Meeting of the American Association of Geographers (AAG)*. Washington, DC. April 15 (poster)

- 70. Zhan, FB; Zhu, Y. 2010. Earthquakes can be Forecasted. *Annual Meeting of the American Association of Geographers (AAG)*. Washington, DC. April 14
- 69. †Chen X; Zhan, FB; Zhou, Q. (workshop co-chairs) 2009. *International Workshop on High Performance Geocomputation and Geoinformatics*. Shenzhen, China. December 19
- 68. Zhan, FB; Zhu, Y. 2009. Medium-Term Prediction of the Wenchuan Earthquake Using Mobile Gravity Survey Data. *The 2009 American Geophysical Union (AGU) Fall Meeting*. San Francisco, CA. December 15 (poster)
- 67. Zhu Y; Zhan, FB; Liang, W; Xu, Y. 2009. Medium-Term Prediction of the Wenchuan Earthquake Using Mobile Gravity Survey Data. *International Symposium on Earthquake Seismology and Earthquake Predictability (ISESEP)*. Beijing, China. July 7 (poster)
- 66. Zhan, FB; Zhu, Y; Hu, B; Li, Z; Yang, L; Li, T. 2009. Geovisual Analytics for Earthquake Risk Assessment & Earthquake Related Decision Support: A Research Agenda. *International Symposium on Earthquake Seismology and Earthquake Predictability (ISESEP)*. Beijing, China. July 6
- 65. †Liu, X; Zhan, FB. 2009. Road Selection Based on Voronoi Diagrams and 'Strokes' in Map Generalization. *Annual Meeting of the American Association of Geographers (AAG)*. Las Vegas, NV. March 24
- 64. †Silvan, J; Wang, L; Zhan, FB; Crews, KA. 2009. Multi-temporal sub-pixel change detection and analysis of invasive saltcedar: A case study along the Rio Grande, 1993–2005. *Annual Meeting of the American Association of Geographers (AAG)*. Las Vegas, NV. March 23
- 63. Zhan, FB; Tapia, FO; Santillana. M. 2009. Estimating Small Area Population Growth Using Geographic Knowledge Guided Cellular Automata. *Annual Meeting of the American Association of Geographers* (AAG). Las Vegas, NV. March 22
- 62. †Zou, B; Zhan, FB; Yorke, Charles. 2009. Evaluation of Kriging and EWPM for Exposure Risk Assessment of Air Pollution Using Results from AERMOD as Benchmark. *Texas Geography Student Research Symposium (TxGSRS)*. San Marcos, TX. March 6
- 61. Zhan, FB. 2009. Healthcare in the U.S.: A Critical Juncture Panel Session. Panel of *the Texas Geography Student Research Symposium (TxGSRS)*. San Marcos, TX. March 6 (member of a panel)
- 60. Zhan, FB. 2008. Perspectives on the Evolution of Applied Geography. Keynote Panel of the 31st annual meeting of the Applied Geography Conferences. Wilmington, DE. October 15 (member of a keynote panel)
- 59. Zhan, FB; Chen, C. 2008. Intercity Commute Patterns in Central Texas. *GeoInformatics* 2008. Guangzhou, China. June 29
- 58. Zhan, FB. 2008. Spatial Cluster Analysis and Cancer Mortality Hot Spots in Texas. *The Singapore Disease Management Conference 2008*. Singapore. May 9
- 57. †Collins, W; Zhan, FB; Chen, X. 2008. Evacuation Microsimulation of Diurnal Population Distributions. *Annual Meeting of the American Association of Geographers (AAG)*. Boston, MA. April 17
- 56. †Wan, N; Zhan, FB. 2008. Complexity of spatial networks. *Annual Meeting of the American Association of Geographers (AAG)*. Boston, MA. April 17 (poster)
- 55. †Tian, N; Wilson, JG; Zhan, FB. 2008. Regional Cluster Analysis of Female Brest Cancer at the County Level of the United States. *Annual Meeting of the American Association of Geographers (AAG)*. Boston, MA. April 15
- 54. Zhan, FB. 2007. Panelist, Panel Session about GIS, Geoscience and Interoperability. *OGC-China Symposium at Wuhan*. Wuhan, China. October 26

- 53. Zhan, FB. 2007. Session Chair, Introduction to OGC (Open Geospatial Consortium). OGC-China Symposium at Wuhan. Wuhan. October 25
- 52. Zhan, FB; Chen, X; Voigt, T. 2007. A Framework for Developing Left-Turn Operations Guidelines at Signalized Intersections. *The 4th IEEE Conference on Service Systems and Service Management (ICSSSM07)*. Chengdu, China. June 11
- 51. †Wu, GY; Zhan, FB. 2007. Climate Change and Water Resources in Texas. 2007 Annual Conference UJoint Rio Grande Basin Initiatives, South Padre Island, TX. May 17
- 50. †Yao, ZJ; Zhan, FB. 2007. Visual Exploration and Spatial Analysis for Detecting Clusters of Line Segments (poster). *Annual Meeting of the American Association of Geographers (AAG)*. San Francisco, CA. April 19
- 49. Zhan, FB; Chen, X. 2007. Intercity and Urban-Rural Commute Flows in Central Texas. *Annual Meeting of the American Association of Geographers (AAG)*. San Francisco, CA. April 19
- 48. Zhan, FB; Chen, X. 2006. Agent-Based Modeling and Evacuation Planning. 2006 Texas A&M University Symposium on "Geospatial Technologies and Homeland Security." College Station, TX. November 15
- 47. Zhan, FB; Brender, JD; Suarez, L; Langlois, PH. 2006. GIS-Augmented Environmental Epidemiology Research. *The 14th International Conference on Geoinformatics (Geoinformatics 2006)*. Wuhan, China. October 28-29
- 46. †Hanford EJ; Zhan FB; Lu Y; Giordano A. 2006. Chagas Disease and the Implications of Historical Biogeographical Research in Texas. Invited presentation to *the Six States Meeting*, August 10-11, 2006, sponsored by U.S. Department of Agriculture, U.S. Department of Homeland Security, Animal & Plant Health Inspection Service. Texarkana, TX. August 10
- 45. Zhan, FB; Wu, G. 2006. Distributed Modeling and Analysis for Regional Water Resource Vulnerability Assessment. *Hydrological Sciences for Managing Water Resources in the Asian Developing World*. Guangzhou, China. June 9
- 44. †Wu, G; Zhan, FB. 2006. GIS, Geospatial Analysis, and Modeling for Sustainable Water Resource Management. *Fifth Annual Rio Grande Initiatives Conference*. Ruidoso, TX. March 29
- 43. †Chen, X; Zhan, FB. 2006. Commute patterns in Central Texas. *Annual Meeting of the American Association of Geographers (AAG)*. Chicago, IL. March 11
- 42. †Wu, G; Zhan, FB. 2006. Climate Change and Water Resources Vulnerability in Texas. *Annual Meeting of the American Association of Geographers (AAG)*. Chicago, IL. March 11
- 41. Zhan, FB; Chen, X; Meaker, J. 2006. Agent-Based Modeling and Analysis of Hurricane Evacuation Procedures for the Florida Keys. *Annual Meeting of the American Association of Geographers (AAG)*. Chicago, IL. March 10
- 40. Zhan, FB; Lu, Y; Giordano, A; Hanford, EJ. 2005. Geographic Information System (GIS) as a Tool for Disease Surveillance and Environmental Health Research. *The Second IEEE Conference on Service Systems and Service Management (ICSSSM05)*. Chongqing, China. June 13-15
- 39. Zhan, FB; 2005. GIS for Sustainable Water Resource Management in the Rio Grande Basin–Development of Geodatabases and Acquisition of Land Use Land Cover Data. *Fourth Annual Rio Grande Initiatives Conference*. Alpine, TX. April 12
- 38. Zhan, FB; Brender, JD; Suarez, L; Langlois, PH; 2005. GIS-Augmented Environmental Epidemiology Research: Residential Proximity to Hazardous Waste Sites and Congenital Malformations in Offspring. *Annual Meeting of the American Association of Geographers (AAG)*. Denver, CO. April 8

- 37. Zhan, FB. 2005. The Use of Geographic Information Systems for Sustainable Water Resource Management. *International Seminar on Sustainability of the Precious Water Environment-Partnership between Texas and Shimane*. Matsue, Japan. January 26
- 36. Zhan, FB. 2004. Automatic Calibration of Mathematical Models for Spatial Allocation of Population Growth in Regional Water Resource Planning. *The 4th International Conference on Watershed Management and Urban Water Supply.* Shenzhen, China. December 14
- 35. Zhan, FB; Wu, G. 2004. Spatially Distributed Hydrologic Modeling Using Information Derived from Remote Sensing Images and Other Geospatial Data. *International Conference on Water Security for Future Generations*. Changchun, Jilin, China. July 27
- 34. Zhan, FB; Brender, J; Han, Y; De Lima, I; Suarez, L; Langlois, P. 2004. GIS-Based Spatial Search for Environmental Health Research: Environmental Hazards and Birth Defects in Texas. CDC 2004 Environmental Health Tracking Conference. Philadelphia, PA. March 24-26
- 33. Zhan, FB. 2004. STAR/STELLA Transatlantic Transport Research Initiative II. *Annual Meeting of the American Association of Geographers (AAG)*. Philadelphia, PA. March 19 [discussant]
- 32. Zhan, FB. 2004. What are 'the Weakest Links' in Intermodal Transportation? *Annual Meeting of the American Association of Geographers (AAG)*. Philadelphia, PA. March 19
- 31. †Wu, G; Zhan, FB. 2004. Hydrologic Modeling Using Remote Sensing and GIS A Case Study in the San Marcos Basin? *Annual Meeting of the American Association of Geographers (AAG)*. Philadelphia, PA. March 15
- 30. Zhan, FB; Morrill, RL. 2004. Fleming Lecture in Transportation Geography. *Annual Meeting of the American Association of Geographers (AAG)*. Philadelphia, PA. March 15 [session organizer]
- 29. †Chen, X; Zhan, FB. 2004. Agent-Based Modeling and Simulation of Urban Evacuation: Relative Effectiveness of Simultaneous and Staged Evacuation Strategies. *The 83rd Annual Meeting of Transportation Research Board*. Washington, DC. January 11-15
- 28. Zhan, FB; Chen, X. 2003. Micro-Simulation of Urban Evacuation Strategies. *Annual Meeting of the American Association of Geographers (AAG)*. New Orleans, LA. March 5
- 27. †Wu, G; Zhan, FB. 2003. Spatial Data Mining with Improved GIS Tools. *Annual Meeting of the American Association of Geographers (AAG)*. New Orleans, LA. March 5
- 26. Zhan, FB; Morrill, RL. 2003. Fleming Lecture in Transportation Geography. *Annual Meeting of the American Association of Geographers (AAG)*. New Orleans, LA. March 5 (session organizer)
- 25. †Chen, X; Zhan, FB. 2003. Mapping the Vulnerability of Potential Toxic Substance Release from Industrial Facilities under Emergency Situations: A Case Study of Galveston, Texas. *Annual Meeting of the American Association of Geographers (AAG)*. New Orleans, LA. March 5
- 24. Zhan, FB. 2003. GIS-Based Allocation Analysis of Regional Water Demand. Geoinfomatics 2002: Geoinfomatics for Global Change Studies and Sustainable Development. Nanjing, China. June 1-3
- 23. †Wilson, JG; Zhan, FB; Brender, JD; Bryan, D. 2002. Geographic concentrations of prostate cancer incidence in Texas and their relationship to socioeconomic conditions. *Annual Meeting of the American Association of Geographers (AAG)*. Los Angeles, CA. March 19-23
- 22. Zhan, FB. 2001. Locating a Multiple-Institution Teaching Center In North Austin, Texas. *Papers and Proceedings of Applied Geography Conference*. Fort-Worth, TX. November 14-15
- 21. Zhan, FB. 2001. How Much is Region Q Covering Region R 'a Little Bit,' 'Somewhat,' or 'Nearly Completely?' SVUG, The Workshop on Spatial Vagueness, Uncertainty, and Granularity. Ogunquit, ME. October 15-19

- 20. Zhan, FB. 2001. Geographic Distributions of Cancer Mortality in Texas. *Annual Meeting of the American Association of Geographers (AAG)*. New York, NY. February 25–March 3
- 19. Zhan, FB. 2000. Quantification of Linguistic Modifiers in Descriptions of the Topological Relation "Region A Covers Region B." GIScience 2000: The First International Conference on Geographic Information Science. Savannah, GA. October 28-31
- 18. Zhan, FB. 2000. Geographers in the Real World: Some Example Employment Profiles of Geography Graduates from Southwest Texas State University, *International IT Conference on Geo-Spatial Education*. Hong Kong, China. July
- 17. Zhan, FB. 1998. An Online Recycling Markets Information System (RMIS). *ESRI User Conference*. San Diego, CA.
- 16. Zhan, FB. 1998. The Ribbon and the "Beige Region:" GIS Development for Epidemiology Analysis. *Annual Conference of US-Mexico Borderland Studies*. Nogales, AZ.
- 15. Zhan, FB. 1997. A New Method for Spatial Point Pattern Analysis. *Annual Meeting of the American Association of Geographers (AAG)*. Fort Worth, TX.
- 14. Zhan, FB. 1997. GIS-Transportation and the Private Sector: Building Common Grounds between Universities and Private Sectors. *Annual Meeting of the American Association of Geographers (AAG)*. Fort Worth, TX.
- 13. Zhan, FB. 1997. Topological Relations Between Fuzzy Regions. *The 1997 ACM Symposium on Applied Computing*, San Jose, CA.
- 12. Zhan, FB. 1997. Approximate Analysis of Topological Relations Between Geographic Regions with Indeterminate Boundaries. *The Second Workshop of the International Institute for General Systems Studies*. San Marcos, TX.
- 11. Zhan, FB. 1996. GIS Programs at Southwest Texas State University. Texas GIS Forum'96. Austin, TX.
- 10. Zhan, FB. 1996. Approximate Analysis of Geographic Objects with Indeterminate Boundaries. *International Institute of General Systems Studies Workshop II*. San Marcos, TX.
- 9. Zhan, FB. 1996. A Set of Shortest Path Algorithms That Run Fastest on Real Road Networks. *GIS/LIS'96*. Denver, CO.
- 8. Zhan, FB. 1996. A Spatial Decision Support System For Wood Fuel Procurement. *Annual Meeting of the American Association of Geographers (AAG)*. Charlotte, NC.
- 7. Zhan, FB. 1995. A Family of Spatio-Temporal Competitive Location Models in Mobile Trading. *Annual Meeting of the American Association of Geographers (AAG)*. Chicago, IL.
- 6. Zhan, FB. 1995. Shortest Path Algorithms: An Evaluation Using Real Road Networks. *The 18th Applied Geography Conference*. Crystal City, Arlington, VA.
- 5. Zhan, FB. 1994. A Model of Spatio-Temporal Competition in Two-Trader Mobile Trading. *Annual Meeting of the American Association of Geographers (AAG)*. San Francisco, CA.
- 4. Zhan, FB. 1993. Spatio-Temporally Constrained Disaggregate Accessibility Modeling in GIS. *First McMaster/UB Graduate Conference*. Buffalo, NY.
- 3. Zhan, FB. 1992. Generalization of Spatial Databases. *The First Conference of Chinese Professionals in GIS*. Buffalo, NY.
- 2. Zhan, FB. 1992. Object-Oriented Spatial Knowledge Representation and Processing: Formalization of Core Classes and Their Relationships. *Fifth International Symposium on Spatial Data Handling*. Charleston, SC.

1. Zhan, FB. 1991. Structuring the Knowledge of Cartographic Symbolization: An Object-Oriented Approach. *Auto Carto 10*. Baltimore, MD.

TEACHING

Courses Taught at Texas State University

GEO2426	Fundamentals of Geographic Information Systems (GIS)
GEO2427	Management and Implementation of GIS
GEO3310	Urban Geography
GEO4336	Transportation Systems
GEO4338	Land Use Planning
GEO4426	Advanced GIS I
GEO4427	Advanced GIS II
GEO5301	Multivariate Quantitative Methods
GEO5336	Transportation Systems
GEO5418	Geographic Information Systems
GEO7301	Advanced Quantitative Methods
GEO7417	Geographic Information Systems
GEO7418	Technical Foundations and Methods of GIScience
GEO7372	Seminar in Geographic Information Science

Courses Taught at Wuhan University, China

Research Seminar in Geographic Information Science

Courses Taught at CentroGeo, Mexico

Introduction to Spatial Analysis and Modeling GIS and Transportation Analysis

RESEARCHERS SPONSORED/HOSTED

Visiting Professors/Scholars

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Xueling Wu (2014-2016) [China University of Geosciences, China]
Yiqing Zhu (2014) [China Earthquake Administration]
Weifeng Liang (2014) [China Earthquake Administration]
Jinting Zhang( 2013-2016) [Wuhan University, China]
Song Hong (2013-2014) [Wuhan University, China]
```

Limin Jiao (2012) [Wuhan University, China]

Zhongliang Cai (2012) [Wuhan University, China]

Rui Zheng (2011-2012) [China Earthquake Administration, China]

Zhiyue Lu (2011-2012) [Wuhan University, China]

Jingru Tian (2011-2012) [Wuhan University, China]

Min Weng (2011-2012) [Wuhan University, China]

Hai Huang (2010-2011) [Chong Qing Jiaotong University, China]

Yanfang Liu (2009) [Wuhan University, China]

Han Cao (2009-2010) [Shanxi Normal University, China]

Limin Jiao (2009) [Wuhan University, China]

Zhongliang Cai (2008-2009) [Wuhan University, China]

Yaolin Liu (2008) [Wuhan University, China]

Jianjun Zhu (2008) [Central South University, China]

Benzao Tao (2007) [Wuhan University, China]

Deren Li (2007) [Wuhan University, China]

Post-Doctoral Research Associates

Yan Lin (2013–2014)

Bin Zou (2011-2013)

Xuwei Chen (2005-2007)

Omar Tapia (2006)

SUPERVISION OF GRADUATE STUDENTS

Graduated doctoral students (as major advisor or co-advisor if noted)

20. 05/2019 Md Niaz Morshed

Childhood Cancer Disparities in Texas

Research Specialist, Texas Health and Human Service Commission

19. 08/2018 Guixing Wei

Assessment of Personal Exposure to Air Pollution Based on Trajectory Data Senior Research Scientist, Spatial Structures in the Social Sciences (S4), Brown University

18. 01/2016 Xi Gong

Exploring Associations Between Environmental Risk Factors and Low Birth Weight Using Geographic Big Data

Assistant Professor, Department of Geography & Environmental Studies, University of New Mexico

17. 12/2014 Yan Lin

Cervical Cancer Disparities in Texas

Associate Professor, Department of Geography & Environmental Studies, University of New Mexico

16. 10/2013 David A. Nicosia

Simulating Uncertainty in Volunteered Geographic Information GIS Analyst, Remme Corporation, San Marcos, TX

- 15. 08/2013 **Zhiyue Lu** (degree conferred by Wuhan University, China) Estimation of Earthquake Probability in Mainland China (co-advisor with Prof. Dongchen Er of Wuhan University, China)
- 14. 12/2012 Xiaomin Yu (degree conferred by Wuhan University, China)
 Land Cover Classification Methods for Ecosystem Carbon Budget Evaluation
 (Wuhan University, China)
- 13. 06/2012 Yan Yang (degree conferred by Wuhan University, China)
 A Comparative Study and Improvement of Methods for Seismic Risk Analysis
 (co-advisor with Prof. Lin Li of Wuhan University, China)
- 12. 12/2011 Xueheng Yao (degree conferred by Central South University, China) Micro–Simulation of Transportation Systems (co-advisor with Prof. Minghua Yang of Central South University, China)
- 11. 07/2011 Neng Wan

Disparities of Colorectal Cancer Survival in Texas Associate Professor, Department of Geography, University of Utah

10. 04/2011 Zhijun Yao

Cluster Analysis of Health Data Involving General Disease Cluster Shapes and Multiple Variables Senior Java Developer, Cyber Data Technologies Inc., Washington, DC, USA

9. 07/2010 **Nancy Tian**

Racial, Socioeconomic, and Geographic Disparities of Female Breast Cancer in Texas

Health Statistician with GIS expertise, U.S. Food and Drug Administration (FDA), Washington, DC, USA

- 8. 12/2009 Charles Yorke
 - A Three-Component Model of Hazards of Place
- 7. 11/2009 **Bin Zou** (degree conferred by Central South University, China)
 Models of Air Pollution Exposure Assessment and Their Applications in Epidemiological Analysis

Outstanding Dissertation Award, Hunan Province, China

Professor, Associate Dean, School of Geoscience and Info-Physics, Central South University, China

6. 05/2009 **Jose L. Silvan-Cardenas**

Sub-Pixel Remote Sensing for Mapping and Modeling Invasive Tamarix:

(co-advisor with Prof. Yongnian Zeng of Central South University, China)

A Case Study in West Texas, 1993-2005.

J. Warren Nystrom Dissertation Award (AAG best dissertation award)-2011

Associate Professor, National Center for Geography and Geographic Information Science and Geomatics (CentroGeo), Mexico City, Mexico

- 5. 01/2009 Dingju Zhu (degree conferred by the Chinese Academy of Sciences, China)
 - High Performance Computing and Spatial Databases

(co-advisor with Professor Jianping Fan, CAS)

Associate Professor, Shenzhen Institutes of Advanced Technology

The Chinese Academy of Sciences (CAS)

4. 05/2008 Guangyu Wu

Regional Climate Change and Its Impacts on Water Resources in Texas Senior Software Engineer, Allstate Insurance Company, Chicago, IL

3. 12/2007 Ionara De Lima Wilson

A Spatial Epidemiological Analysis of Oral Clefts and Volatile Organic Solvents in Texas GIS Specialist II, Texas Forest Service, College Station, Texas

2. 05/2006 Xuwei Chen

Microsimulation of Evacuation Strategies

J. Warren Nystrom Dissertation Award (AAG best dissertation award)-2007

Associate Professor, Department of Geography, Northern Illinois University

1. 12/2000 Xinnong Zhou

Geographic Concentrations of Lung Cancer Mortality in Texas and Their Relationships to Socioeconomic and Environmental Conditions

Senior Software Development Engineer, Microsoft Corporation, Seattle, WA

Graduated doctoral students (as a committee member)

Chayanika Singh (2022)

Ayodeji E. Iyanda (2021)

He Jin (2018)

Ioannis Kamarinas (2018)

Reni Bibriven Lila (2018)

Erin D. Dascher (2017)

Tamara Biegas (2017)

Nathaniel Dede-Bamfo (2016)

Naizuo Zhao (2014)

Adam Mathews (2014)

Khila Dahal (2013)

Haoran Chen (2013), Department of Chemistry & Biochemistry, Texas State

Tianfang Fang (2012)

Elaine J. Hanford (2010)

Greg Rybarcyzk (University of Wisconsin-Milwaukee) (2010)

Xuelian Meng (2009)

Christi Townsend (2008–2010)

Junmei Tang (2007)

Forrest Wilkerson (2004)

Current doctoral students (as major advisor)

Mei Yang (2019–)
Chijioke I. Anyanwu (2019–)
Yanyan Liu (2020–)
Xiu Wu (2020–)
Mayowa Lasode (2021–)
Jinli Liu (2021–)
Toby Hooper (2020-2021)

Current doctoral students (as a committee member)

Graduated master's students (as major advisor)

Matthew H. Beavers

Archaeological Predictive Modeling for Black Mesa District, Apache-Sitgreaves National Forest, AZ

2021 Ting Hsun Yang

A Case Study of Environment Justice Ű- Air Quality In The Greater Houston Area

2020 L. Megan Gunnells

A Study of Urban Redevelopment of the Broadway Area in San Antonio, Texas from 2009-2019

2020 Xiu Wu

Exploring Association Between Subjective Well-Being and Ecological Footprint: Panel Data Analysis

2015 David L. Melancon

How the Price of Oil Affects Where Oil Producers Drill

2014 Yuanda Liu

Regional Income and Income Inequality Distribution: A Case Study of The Interstate 10 Area

2010 Xingjian Liu

Method and Application of Spatial Probit Model to the Business Return to New Orleans after Hurricane Katrina

2009 William "Bill" Korthals

An Analysis of Residential View Properties and their Effects on the Price of a House

2009 Yan Lin

Geostatistic and GIS methods for Assessing Heavy Metal Contamination in Soils

2007 Patricia Longas

The Spatial Distribution of Fast-Food Restaurants in Harris County, Texas

2004 Muhammad T. Rahman

Perception of Arsenic Hazard and Factors Affecting People's Participation of its Mitigation in Three Villages of Bangladesh

2004 Joseph Rincon

Developing the Texas Commission on Environmental Quality Spatial Data Management Infrastructure: A Focus on Needs Assessment

2003 Kschitij Chaturvedi

Geographic Patterns of Obesity in Texas

Jeff G. Wilson

Geographic Concentrations of Prostate Cancer Incidence in Texas and Their Relationship to Socioeconomic Conditions

2000 Arwen Vaughan

GIS-Based Allocation Analysis of Regional Water Supply and Demand

1999 Dean Rother

Dangerous Intersections in San Marcos, Texas: A GIS-Based Analysis

1998 Ian Martin

Location Analysis of the Multi-Institutional Teaching Center in North Austin

1997 Nicolas E. Gronquist

Factors Affecting Commute Times in the Austin Metropolitan Area

Graduated master's students (as a committee member)

Ben Wang (2021)

Rachel Stanley (2018)

Ryan A. Fisher (2014), Department of Criminal Justice

Cortney L. Wenzel (2012)

P. Chance Kinnison (2012)

Zoran Stojakovic (2011)

Aja R. Davidson (2010)

Mike Zugelder (2008)

Diana Woronuk (2007)

James Graham (2006)

Jessica N. Mefford (2004)

Jon Kathy Alexander (2001)

Justin Edmondson (2001)

Steve Floyd (2000)

Stephanie Jensen (1999)

J. Alberto Colino (1998)

Tom Griffith (1998)

Current master's students (as major advisor)

Current master's students (as a committee member)

Abigail Edgar (2021-)

External examiner of Ph.D. dissertations or master's theses

Wei Peng, Hong Kong Polytechnic University, China (2017)

Cheung Yik Kong, Hong Kong Polytechnic University, China (2012)

Hong Zhang, Hong Kong Polytechnic University, China (2011)

Teng Wang, Wuhan University, China (2010)

Shang Li, Wuhan University, China (2010) (Chair, dissertation examination committee)

Tiantian Feng, Wuhan University, China (2010) (Chair, dissertation examination committee)

Wendi Peng, The University of New South Wales, Australia (2008)

Ting Yang, The University of New South Wales, Australia (2007)

Liming Jiang, Wuhan University, China (2006)

Yan Wang, Wuhan University, China (2006)

Xiang Li, the Chinese University of Hong Kong (2004)

SERVICE ACTIVITIES

Editorial Boards

Asian Geographer (2011-present) (International Editorial Advisory Board)

Environmental Health Insights (2008-present)

Journal of Transport Geography (2005-present)

URISA Journal (The Urban and Regional Information Systems Association) (2002-2013)

External Review of Faculty Performance and Tenure/Promotion Cases

Northern Arizona University (2021)

King Fahd University of Petroleum and Minerals, Saudi Arabia (2019)

University of Memphis (2016)

University of Wisconsin–Milwaukee (2016)

University of Colorado at Denver (2015)

McCoy College of Business, Texas State University (2012)

University of North Texas (2009)

Florida Atlantic University (2008)

Hong Kong Baptist University (2008)

Texas A&M Health Science Center (2007)

University of Pittsburgh - College of Medicine (2007)

University of Alabama (2006)

Hofstra University (2004)

Hong Kong Baptist University (2003)

University of Massachusetts-Boston (1998)

Memberships of Professional Organizations

Member:

American Association of Geographers (AAG)

Chair (2002-04), Transportation Geography Specialty Group

Member, Geographic Information Science and Systems Specialty Group

Member, Transportation Geography Specialty Group

Member, Spatial Analysis and Modeling Specialty Group

Member, Health & Medical Geography Specialty Group

American Association of Geographers (AAG), Southwest Division (SWAAG)

Association of Chinese Professionals in Geographic Information Systems (CPGIS)

Formerly:

Association of Computing Machinery (ACM)

Institute for Operations Research and the Management Sciences (INFORMS)

American Geophysical Union (AGU)

Seismological Society of America (SSA)

University Consortium for Geographic Information Science (UCGIS)

Chair (2003-2005), UCGIS Sponsored Programs Committee

Lead delegate (2001-2006), Texas State University-San Marcos

Member (2001-2003), UCGIS Research Committee

Service as a Reviewer for Programs and Funding Agencies/Organizations

[Key: name of Institution/Agency; year of review (number of reviews).]

Chang Jiang Scholars Program, China Ministry of Education (Beijing, China) and the Li Ka Shing Foundation (Hong Kong, China)

2008, 2009, 2012, 2013, 2014, 2016, 2017, 2019

Texas Department of Transportation - Technical Assistance Panel 2004-2013

The Chinese University of Hong Kong 2006, 2008

Member of External Academic Review Committee, Center for Geography and Geographic Information Science (CentroGeo), Mexican National Science and Technology Commission), Mexico 2007-09

The U. S. National Institutes of Health – National Cancer Institute 2007, 2009

The U. S. National Institutes of Health – National Institute of Minority Health Disparities 2020

Review Panels of the U. S. National Science Foundation 2003, 2008

Service as a Reviewer for Journals, Publishers, Agencies, or Conferences

[Key: name of journal/conference/publisher; year of review (number of reviews).] American Journal of Epidemiology 2007, 2016 American Journal of Public Health Annals of the American Association of Geographers 2011, 2018 Annals of GIS 2010, 2011, 2012, 2017, 2018, 2019, 2021 Annual National Conference on High Performance Computing-2007 (HPC China 2007) 2007(11) Applied Geography 2010, 2012 Artificial Intelligence in Medicine 2019 Asian Geographer 2012 American Association of Geographers (AAG) – Health/Medical Geography Specialty Group 2015 Biomass & Bioenergy 2015 BMC Public Health 2004, 2018 Cancer 2018 Cartographica 1996, 1997 Cartography and Geographic Information Sciences 1997, 1998, 2009, 2012, 2013, 2021, 2022 Computers, Environment and Urban Systems 2002, 2005, 2010, 2013, 2017 Computers and Graphics 2009 Conference on Spatial Information Theory (COSIT) 1999, 2001(3), 2003(4) Environment and Planning A 2000, 2001, 2003

Environment International

2019

Environmental Health Insights 2012, 2015 (3), 2016

European Journal of Geography 2011

Frontiers of Earth Science

2012

Frontiers in Oncology

2022

Geocarto International

1999, 2007

Geographical Analysis

1995, 1997, 1999, 2002, 2004(2), 2005, 2006

Geographic Information Sciences

2002

Geoin formatica

1998

(Geo)Spatial Technologies for Urban Health

2018, 2019

International Conference on GeoInformatics 2011(10), 2012(9), 2013(3), 2014(3), 2015 (6)

Geographical and Environmental Modelling 1998, 2001

Geo-Spatial Information Science

2011

Health & Place

2011, 2012, 2013

IEEE Transactions on Fuzzy Systems

2002, 2003

IEEE Transactions on Intelligent Transportation Systems

2003, 2004

International Conference on Advanced Data Mining and Applications

2005(14)

The International Conference on Geographical Information Systems Theory, Applications and Management (GISTAM)

2021 (2)

International Journal of Applied Earth Observation and Geoinformation

2010

International Journal of Environmental Research and Public Health 2016

International Journal of Geographical Information Science

 $1994,\,1997,\,2000,\,2003,\,2004,\,2006,\,2007,\,2010,\,2013,\,2017,\,2019,\,2021,\,2022$

International Journal of Health Geographics 2005(2) International Journal of Intelligent Systems Technologies and Applications International Journal of Remote Sensing 2009 Journal of Geographic Information and Decision Analysis Journal of Applied Geography 2017 Journal of Environmental and Public Health 2017(2) Journal of Geography 2012 Journal of Transport Geography 2001, 2003, 2005, 2006(2), 2007(3), 2008(3), 2009, 2010(2), 2011(3), 2012(4), 2017, 2018 (2), 2023 MIT Press 2012 National Birth Defects Prevention Study (NBDPS) - Data Sharing Committee 2013 National Science Foundation 2000, 2001(2), 2003, 2004(2), 2005(2), 2009(2), 2010, 2011 Natural Hazards 2015 Nature Sustainability 2019, 2020 The Netherlands Organisation for Scientific Research (NWO) 2015 Networks 1998 Occupational and Environmental Medicine Papers in Regional Science 1998, 2004 Papers of Applied Geography Conferences 2003, 2004, 2005, 2011 Photogrammetric Engineering and Remote Sensing 1998, 2005

Professional Geographer

2001, 2002, 2004, 2005, 2006, 2007, 2010, 2012, 2013, 2020

Research in Geographic Education

1999, 2000

Review of book chapters: Physica-Verlag book titled "Applying Soft Computing in Defining Spatial Relations" 2001(2)

Review of book chapter: Global Institute for Energy and Environmental Systems (CIEES) book titled "Encyclopedia of Life Support Systems"

2001

Review of book chapter: Pergamon/Elsevier book titled "Recent Advances in Activity-Based Approaches" 2004

Review of book chapter: Springer book titled "Geospatial Information Technologies for Homeland Security" 2007

Social Science Quarterly 1996(2)

Socio-Economic Planning Sciences 2017, 2018

Transactions in GIS

2002

Transportation Research Part D: Transport and Environment 2019

UCGIS (University Consortium for Geographic Information Science) student paper competition 2001 (36 abstracts)

URISA Journal

2002(2), 2003, 2005, 2006, 2010

Publisher-Blackwell

2005

Publisher-Elsevier

2003

Publisher-Guilford Press

2015

Publisher–John Wiley and Sons

2003

Publisher–McGraw-Hill

2007

Women's Health Issues

2015 (2)

Service on Conference Committees

2021

Member, Conference Committee, *The International Conference on Geographical Information Systems Theory, Applications and Management (GISTAM)*, Online Streaming, April 23–25.

2016-2017

Member, International Steering Committee, *The 25rd International Conference on Geoinformatics (Geoinformatics 2017)*, August 2–4, 2017, Buffalo, NY.

2015

Member, Program Committee, *The 23rd International Conference on Geoinformatics (Geoinformatics 2015)*, June 19–21, 2015, Wuhan, China.

2014

Member, Program Committee, *The 22nd International Conference on Geoinformatics (Geoinformatics 2014)*, June 25–27, 2014, Kaohsiung, Taiwan.

2013

Member, Program Committee, *The 2013 International Conference on Geo-Informatics in Green Ecology & Environment (GGEE2013)*, November 8–10, 2013, Wuhan, China.

2013

Member, Program Committee, *The 21st International Conference on Geoinformatics (Geoinformatics 2013)*, June 20–22, 2013, Kaifeng, China.

2012

Member, Program Committee, *The 20th International Conference on Geoinformatics (Geoinformatics 2012)*, June 15–17, 2012, Hong Kong, China.

2011

Member, Program Committee, *The 19th International Conference on Geoinformatics (Geoinformatics 2011)*, June 24–26, 2011, Shanghai, China.

2010

Member, Honorary Program Committee, *International Workshop on GIS for Transportation* Wuhan University, November 20-22, 2009, Wuhan, China.

2009

Member, Program Committee, *International Symposium on Spatial Data Analysis* Wuhan University, October, 2009, Wuhan, China.

2007

Member, Program Committee

Annual National Conference on High Performance Computing—2007 (HPC China 2007) October 26-28, Shenzhen, China.

2007

Co-Chair, Organizing Committee, *OGC-China Symposium at Wuhan University* Wuhan University, October 25-26, Wuhan, China.

2005

Member, Program Committee, *The First International Conference on Advanced Data Mining and Applications (ADMA2005)*Wuhan University, July 22-24, Wuhan, China.

2003

Member, Scientific Committee, *Conference on Spatial Information Theory (COSIT)* September 24-28, Ittingen, Switzerland.

2003

Member, Program Committee, Specialist Meeting, *Critical Transportation Infrastructure (CTI)* 2003 National Consortium on Remote Sensing in Transportation.

2002

Member, Technical Committee, *Geoinformatics* 2002, Association of Chinese Professionals in GIScience (CPGIS), Nanjing, China.

2001

Member, Scientific Committee, *Conference on Spatial Information Theory (COSIT)* September 19-23, Morro Bay, CA, USA.

1999

Member, Scientific Committee, *Conference on Spatial Information Theory (COSIT)* August 25-29, Stade, Germany.

1997

Member, Conference Committee, *International Institute for General Systems Studies (IIGSS) Workshop II.* Southwest Texas State University, January 9-11, San Marcos, TX, USA.

1996

Local Arrangement, Formal Models of Common Sense Geographic Worlds. National Center for Geographic Information and Analysis (NCGIA) Research Initiative 21 Specialist Meeting (Local Arrangements) October 30 to November 3, San Marcos, TX, USA.

1992

Member, Organizing Committee, First Annual Conference of the Association of Chinese Professionals in Geographic Information Systems (Abroad) (CPGIS)
August 15-16, Buffalo, NY, USA.

Service on Committees at Texas State University or the College of Liberal Arts

2011-present

Member and chair (2020), Formosa Professorship Nominating Committee, Texas State

202

Member, Geography Representative on Liberal Arts College Curriculum Committee

2021

Member, Texas State Graduate College Research Support Fellowship Committee

2020

Member, Texas State University Graduate College Mentor Award Evaluation Committee

2020-2021

Member, The Graduate College Scholarship - Liberal Arts Evaluation Committee

2020-21

Member, Texas State University Graduate College Graduate Advisor PPS Subcomittee

2020-21

Member, Texas State University Graduate College Article-Based Thesis/Dissertation Subcomittee

2018-2019

Member, College of Liberal Arts Review Group for Tenure and Promotion.

2018–2019

Member, Graduate College Research Support Fellowship Committee, Texas State

2018-2019

Member, Research Fellowship Committee, Texas State

2017

Member, College of Liberal Arts Review Committee, Research Enhancement Program, Texas State

2012

Member, Presidential Award Committee, Texas State

2010-2015

Member, Steering Committee, Research Design and Analysis Group, Texas State

2009-2010

Member, University Principal Investigator Council, Texas State

2007

Member, Computer Science Chair Search Committee, Texas State

2006-2007

Member, Search Committee, Mitte Chair in Water and GIScience, Texas State

2006

Member, Computer Science Chair Search Committee, Texas State

2003-2004

Member, University Research Planning Committee, Texas State

2002-2004

Member, Sponsored Programs Advisory Council (SPAC), Texas State

1997-1998

Project director, Multi-Institutional Teaching Center (MITC) Site Analysis Project

for the Office of the Vice President for Academic Affairs

Texas State University

(Note: Devoted about 180-200 hours of service to the project during 1997-1998)

Service on Departmental Committees at Texas State University

2017-present

Chair, Graduate Committee

2017-present

Graduate Program Coordinator

2017-present

Member, Evaluation Committee, Texas State Department of Geography

2019-2020

Chair, Physical Geographer Search Committee, Texas State Department of Geography

2017-2018

Chair, Recruiting and Communication Committee

2016-2017

Member, Graduate Committee

2016-2017

Member, Undergraduate Committee

2015-2016

Member, Instructor Review Committee

2015-2016

Chair, Cartography Search Committee

2013-2014

Member, Evaluation Committee, Texas State Department of Geography

2013-2014

Member, GIScience Faculty Position Search Committee

2012-2013

Member, Colloquium Committee, Texas State Department of Geography

2011-2013

Member, TA/Adjunct Mentoring & Review Committee, Texas State Department of Geography

2009-2012

Member, Annual Faculty Scoring/Review Committee, Texas State Department of Geography

2010-2012

Member, Faculty Evaluation Committee, Texas State Department of Geography

2006-2011

Member, Graduate Committee, Texas State Department of Geography

2000

Member, Ad Hoc Committee about a Joint Masters Program in Geoinformatics, Texas State Department of Geography

2009

Member, Faculty Annual Evaluation Scoring Committee, Texas State Department of Geography

2008-2009

Member, GIScience Assistant Professor Search Committee, Texas State Department of Geography

2008-2009

Member, GIScience (remote sensing) Faculty Position (open rank) Search Committee Texas State Department of Geography

2002-2009

Director, Texas Center for Geographic Information Science, Texas State Department of Geography

2002-2008

Member, Leadership Committee, Texas State Department of Geography

2007

Member, Remote Sensing Assistant Professor Search Committee

Texas State Department of Geography

2007

Member, Annual Faculty Scoring/Review Committee, Texas State Department of Geography

2005-2006

Member, Library Committee, Texas State Department of Geography

2004-2006

Member, Budget Committee, Texas State Department of Geography

2004-2005

Member, Equipment Committee, Texas State Department of Geography

2004-2005

Chair, GIScience Assistant Professor Search Committee

Texas State Department of Geography

2003-2004

Member, Geography Chair Search Committee, Texas State Department of Geography

2003-2004

Member, Colloquium Committee, Texas State Department of Geography

2003-2004

Chair, GIScience (remote sensing) Assistant Professor Search Committee

Texas State Department of Geography

2002-2003

Chair, GIScience (remote sensing) Assistant Professor Search Committee

Texas State Department of Geography

2002-2003

Chair, GIScience (remote sensing) Assistant Professor Search Committee

Texas State Department of Geography

2002

Chair, GIScience (cartography) Assistant Professor Search Committee

Texas State Department of Geography

2001-2004

Member, Evaluation Committee, Texas State Department of Geography

2001

Chair, GIScience Faculty Search Committee, Texas State Department of Geography

2001

Member, Water Resources Faculty Search Committee, Texas State Department of Geography

2000-2001

Chair, Travel Committee, Texas State Department of Geography

1999-2000

Member, Travel Committee, Texas State Department of Geography

1997–1998

Member, Scholarship and Awards Committee, Texas State Department of Geography

1997

Member, Faculty Search Committee, Texas State Department of Geography

1996-1998

Supervisor, GIS concentration, Texas State Department of Geography

1996-1903

Member, ChairŠs Technical Advisory Committee, Texas State Department of Geography

1996

Member, Faculty Search Committee, Texas State Department of Geography

1995-1997

Member, Travel Committee, Texas State Department of Geography

1995-1996

Member, Scholarship and Awards Committee, Texas State Department of Geography

1995-1996

Member, Technological Committee, Texas State Department of Geography

Community Service

2021-2023

Member, Citizens Utility Advisory Board (CUAB), City of San Marcos, Texas.

2021-2023

Member, Home Owners Association Board, Villas at Commander's Point, Austin, Texas.

2001-2002

Austin Great Wall Chinese School. Board member and treasurer

1997

Geography in the digital world. Presentation at Wonderland School, San Marcos, Texas

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ROFESSIONAL EXPERIENCE Employment History	2
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F. Benjamin Zhan's Curriculum Vitae (last updated on March 21, 2023)

Contact Information:

F. Benjamin Zhan Professor Texas Center for Geographic Information Science Department of Geography and Environmental Studies Texas State University San Marcos, TX 78666 USA

E-Mail: zhan@txstate.edu