

TEXAS STATE VITA

I. ACADEMIC/PROFESSIONAL BACKGROUND

A. Name: F. Benjamin Zhan

Title: Professor

B. Educational Background

<i>Degree</i>	<i>Year</i>	<i>University</i>	<i>Major</i>	<i>Thesis/Dissertation</i>
Ph.D.	1994	SUNY at Buffalo Buffalo, NY, USA	Geography (GIScience)	Spatio-Temporal Location Analysis Models & the Organization of Periodic Marketplaces
M.S.	1989	International Institute for Geo-Information Science & Earth Observation (ITC), Enschede, Netherlands	Geo-Information Systems	A Knowledge-Based System for Urban Land Use Classification
B.S.	1983	Wuhan Technical Univ. of Surveying & Mapping, Wuhan, China	Geodetic Engineering (Earthquake Science)	Statistical Analysis of Crustal Deformation Observation Data in Northern China

C. University Experience

<i>Position</i>	<i>University</i>	<i>Dates</i>
Professor	Texas State University-San Marcos	2003-present
Director	Texas Center for Geographic Information Science, Texas State University-San Marcos	2003-present
Associate Professor	Southwest Texas State University, San Marcos, TX	1999-2003
Assistant Professor	Southwest Texas State University, San Marcos, TX	1995-1999
Post-Doctoral Fellow	The University of Tennessee, Knoxville, TN	1994-1995
Research Assistant	National Center for Geographic Information & Analysis (NCGIA), Buffalo, NY	1991-1994
Research Associate	Delft University of Technology, Delft, The Netherlands	1989-1991
Study leave on fellowship	International Institute for Geo-Information Science & Earth Observation (ITC), Enschede, The Netherlands	1987-1989
Full Time Instructor	Wuhan Technical University of Surveying and Mapping, China	1983-1987

D. Relevant Professional Experience

<i>Position</i>	<i>Entity/Institution</i>	<i>Dates</i>
Guest Chair Professor	Chang Jiang (Cheung Kong) Scholars Award Program supported guest chair professorship in Cartography and Geographic Information Engineering, Wuhan University, China. (Note: "Chang Jiang" is the Yangtze River.)	2008-2011
Visiting Professor	Center for Geography and Geographic Information Science (CentroGeo), a national research institute of CONACYT (Mexican National Science Foundation), Mexico	12/2007

<i>Position</i>	<i>Entity/Institution</i>	<i>Dates</i>
Guest Professor	Shenzhen Institute of Advanced Technology, The Chinese Academy of Sciences, China	2007-2010
Visiting Professor	South Central University, Changsha, China	06/2006
Visiting Professor	South Central University, Changsha, China	05/2006
Guest Professor	China State Key Laboratory for Information Engineering in Surveying, Mapping and Remote Sensing (LIESMARS), Wuhan University, China	2006-
Guest Professor	South Central University, Changsha, China	2005-2007
Visiting Professor	Center for Geography and Geographic Information Science (CentroGeo), a national research institute of CONACYT (Mexican National Science Foundation), Mexico	12/2005
Visiting Professor	South Central University, Changsha, China	06/2005
Fellow	Joint Laboratory for Geo-Information Science, Chinese Academy of Sciences & the Chinese University of Hong Kong	2003-
Visiting Scholar	Joint Laboratory for Geo-Information Science, Chinese Academy of Sciences & the Chinese University of Hong Kong	02-04/2002

E. Other Professional Credentials (licensure, certification, etc.)

II. TEACHING

A. Teaching Honors and Awards

B. Courses Taught

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
GEO5336	Transportation Systems
GEO5418	Geographic Information Systems
GEO7301	Advanced Quantitative Methods
GEO7418	Technical Foundations and Methods of GIScience
GEO7372	Seminar in Geographic Information Science

C. Graduate Theses/Dissertations or Exit Committees (if supervisor, please indicate)

1. Supervision of Doctoral Students

a. Graduated doctoral students (as major advisor)

- 12/2013 **Yan Lin**
Cervical Cancer Disparities in Texas
Assistant Professor, Department of Geography, South Dakota State University
- 10/2013 **David A. Nicosia**
Simulating Uncertainty in Volunteered Geographic Information
GIS Analyst, Remme Corporation, San Marcos, TX
- 08/2013 **Zhiyue Lu**
Estimation of Earthquake Probability in Mainland China
(co-advisor with Prof. Dongchen Er of Wuhan University, China)
- 12/2012 **Xiaomin Yu**
Land Cover Classification Methods for Ecosystem Carbon Budget Evaluation
(Wuhan University, China)
- 06/2012 **Yan Yang**
A Comparative Study and Improvement of Methods for Seismic Risk Analysis
(co-advisor with Prof. Lin Li of Wuhan University, China)
- 12/2011 **Xueheng Yao**
Micro-Simulation of Transportation Systems
(co-supervisor with Prof. Minghua Yang of Central South University, China)
- 07/2011 **Neng Wan**
Disparities of Colorectal Cancer Survival in Texas
Post-Doc Research Associate, University of Nebraska Medical Center, Omaha, NE, USA
- 04/2011 **Zhijun Yao**
Cluster Analysis of Health Data Involving General Disease Cluster Shapes and Multiple Variables
Senior Systems Analyst, Parsons Brinckerhoff, Baltimore, MD, USA
- 07/2010 **Nancy Tian**
Racial, Socioeconomic, and Geographic Disparities of Female Breast Cancer in Texas
Post-Doctoral Researcher, EPA-National Exposure Research Laboratory, Research Triangle Park, NC, USA
- 12/2009 **Charles Yorke**
A Three-Component Model of Hazards of Place
Assistant Professor, Murray State University, KY, USA
- 11/2009 **Bin Zou**
Models of Air Pollution Exposure Assessment and Their Applications in Epidemiological Analysis
(Co-supervisor with Prof. Yongnian Zeng of Central South University, China)
Assistant Professor, Central South University, China
- 05/2009 **Jose L. Silvan-Cardenas**
Sub-Pixel Remote Sensing for Mapping and Modeling Invasive Tamarix: 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

01/2009 **Dingju Zhu**
High Performance Computing and Spatial Databases
(Co-supervisor with Professor Jianping Fan, CAS)
*Associate Professor, Shenzhen Institutes of Advanced Technology
The Chinese Academy of Sciences (CAS)*

05/2008 **Guangyu Wu**
Regional Climate Change and Its Impacts on Water Resources in Texas
Research scientist, Chicago Metropolitan Agency for Planning

12/2007 **Ionara DeLima-Wilson**
A Spatial Epidemiological Analysis of Oral Clefts and Volatile Organic Solvents in Texas
*Research scientist, Texas Child Protection Services (2007-2008)
GIS Analyst, Ambiotec Group, Brownsville, Texas*

05/2006 **Xuwei Chen**
Microsimulation of Evacuation Strategies
J. Warren Nystrom Dissertation Award (AAG best dissertation award)-2007
Assistant Professor, Northern Illinois University

12/2000 **Xinnong Zhou**
Geographic Concentrations of Lung Cancer Mortality in Texas and Their Relationships to
Socioeconomic and Environmental Conditions
Senior Software Engineer, Environmental System Research Institute (ESRI), Redlands, CA

b. Graduated doctoral students (as a committee member)

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 Rybarczyk (University of Wisconsin-Milwaukee) (2010)
Xuelian Meng (2009)
Christi Townsend (2008–2010)
Junmei Tang (2007)
Forrest Wilkerson (2004)

c. Current doctoral students (as major advisor)

[Note: Students are at Texas State unless otherwise noted.]

Niaz Morshed (2014–)
Guixing Wei (2014–)
Xi Gong (2011–)
Bill Collins (2006–)

d. Current doctoral students (as a committee member)

Nathaniel Dede-Bamfo (2012-)

Junfang Chen (2012-)

Tamara Biegas (2006-)

2. Supervision of Master's Students

a. Graduated master's students (as major advisor)

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

2002 **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

b. Graduated master's students (as a committee member)

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)

c. Current master's students (as major advisor)

David L. Melancon (2012–)

Michael Dutton (2012–)

Yuanda Liu (2012–)

Michelle A. Martinez (2011–)

d. Current master's students (as a committee member)

Nicholas Ferri (2011–)

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

Cheung Yik Kong, Hong Kong Polytechnic University, China (2012)(Member, dissertation examination committee)

Hong Zhang, Hong Kong Polytechnic University, China (2011) (Member, dissertation examination committee)

Teng Wang, Wuhan University, China (2010) (Member, dissertation examination committee)

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)

D. Courses Prepared and Curriculum Development

GEO2427 Management and Implementation of GIS

GEO4427 Advanced GIS II

GEO7418 Technical Foundations and Methods of GIScience

GEO7372 Seminar in Geographic Information Science

E. Funded External Teaching Grants and Contracts

F. Submitted, but not Funded, External Teaching Grants and Contracts

G. Funded Internal Teaching Grants and Contracts

H. Submitted, but not Funded, Internal Teaching Grants and Contracts

I. Other

III. SCHOLARLY/CREATIVE

A. Works in Print

1. Books (if not refereed, please indicate)

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)

a. Scholarly Monographs

c. Edited Books

d. Chapters in Books

[Note: †indicates the author was/is an advisee/student; *marks the corresponding author.]

5. *Zou, B; **Zhan, FB**. (forthcoming). Air Pollution Exposure Assessment and Environmental Health Risk Analysis. (book chapter in Chinese)
4. ***Zhan, FB**, Lin, Y. (forthcoming). Data Structure, Vector. In *The International Encyclopedia of Geography: People, the Earth, Environment, and Technology*. Wiley
3. 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.

2. **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.
1. ***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)

e. Creative Books

2. Articles

a. Refereed Journal Articles

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

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](https://doi.org/10.1016/j.apgeog.2014.10.004))
78. *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](https://doi.org/10.1186/1476-069X-13-96))
77. 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](https://doi.org/10.1080/01431161.2014.958245))
76. **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](https://doi.org/10.1016/j.whi.2014.06.009))
75. 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](https://doi.org/10.1002/2014JD022083))
74. 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](https://doi.org/10.1016/j.jhydrol.2014.07.064))
73. 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* (2014): 1-16. (doi: [10.1007/s11356-014-3007-4](https://doi.org/10.1007/s11356-014-3007-4))
72. ‡*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.000000000000100](https://doi.org/10.1097/SMJ.000000000000100))
71. ***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](https://doi.org/10.1080/13658816.2013.847186))
70. ‡*Yorke, C; **Zhan, FB**; Lu, Y; Hagelman, R. 2013. Incorporating Evacuation Potential into Place Vulnerability Analysis. *Geomatics, Natural Hazards and Risk* (doi: [10.1080/19475705.2013.832406](https://doi.org/10.1080/19475705.2013.832406))

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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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/s11192-011-0599-z](https://doi.org/10.1007/s11192-011-0599-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](https://doi.org/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/cart0.47.3.1112](https://doi.org/10.3138/cart0.47.3.1112))
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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/10.1016/j.scitotenv.2009.05.014))
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b. Non-refereed Articles

3. Conference Proceedings

a. Refereed Conference Proceedings

[Note: † Indicates a student who was Zhan's advisee when the article was prepared;
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4. Abstracts

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60. 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.
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29. Wu, G; **Zhan, FB**. 2006. GIS, Geospatial Analysis, and Modeling for Sustainable Water Resource Management. Fifth Annual Rio Grande Initiatives Conference. Ruidoso.
28. **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**)
27. **Zhan, FB**; Brender, JD; Suarez, L; Langlois, PH. 2006. GIS-Augmented Environmental Epidemiology Research. The 14th International Conference on Geoinformatics (Geoinformatics 2006). Wuhan, China.
26. **Zhan, FB**; Chen, X; Meaker, J. 2006. Agent-Based Modeling and Analysis of Hurricane Evacuation Procedures for the Florida Keys. Annual Meeting of the Association of American Geographers (AAG). Chicago, IL.
25. **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**)

24. **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.
23. **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 Association of American Geographers (AAG). Denver, CO.
22. 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.
21. Wu, G; **Zhan, FB**. 2004. Hydrologic Modeling Using Remote Sensing and GIS - A Case Study in the San Marcos Basin? Annual Meeting of the Association of American Geographers (AAG). Philadelphia, PA.
20. **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.
19. **Zhan, FB**. 2004. What is *the Weakest Link* in Intermodal Transportation? Annual Meeting of the Association of American Geographers (AAG). Philadelphia, PA.
18. **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.
17. **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.
16. 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 Association of American Geographers (AAG). New Orleans, LA.
15. Wu, G; **Zhan, FB**. 2003. Spatial Data Mining with Improved GIS Tools. Annual Meeting of the Association of American Geographers (AAG). New Orleans, LA.
14. **Zhan, FB**; Chen, X. 2003. Micro-Simulation of Urban Evacuation Strategies. Annual Meeting of the Association of American Geographers (AAG). New Orleans, LA.
13. 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 AAG. Los Angeles, CA.
12. **Zhan, FB**. 2001. Geographic Distributions of Cancer Mortality in Texas. Annual Meeting of the Association of American Geographers (AAG). New York, NY.
11. **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**)
10. **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**)

9. **Zhan, FB.** 1997. A New Method for Spatial Point Pattern Analysis. Annual Meeting of the Association of American Geographers (AAG). Fort Worth, TX.
8. **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, October 15-18, 1997. Springer, Berlin, 509-510. (refereed)
7. **Zhan, FB.** 1997. GIS-Transportation and the Private Sector: Building Common Grounds between Universities and Private Sectors. Annual Meeting of the Association of American Geographers (AAG). Fort Worth, TX.
6. **Zhan, FB.** 1996. A Spatial Decision Support System For Wood Fuel Procurement. Annual Meeting of the Association of American Geographers (AAG). Charlotte, NC.
5. **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).
4. **Zhan, FB.** 1995. A Family of Spatio-Temporal Competitive Location Models in Mobile Trading. Annual Meeting of the Association of American Geographers (AAG). Chicago, IL.
3. **Zhan, FB.** 1995. Shortest Path Algorithms: An Evaluation Using Real Road Networks. The 18th Applied Geography Conference. Crystal City, Arlington, VA.
2. **Zhan, FB.** 1994. A Model of Spatio-Temporal Competition in Two-Trader Mobile Trading. Annual Meeting of the Association of American Geographers (AAG). San Francisco, CA.
1. **Zhan, FB.** 1992. Generalization of Spatial Databases, the First Conference of Chinese Professionals in GIS. Buffalo, NY.

5. Reports

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 0-5345-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.

6. 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](https://doi.org/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](https://doi.org/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](https://doi.org/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), 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.

7. Other

B. Works not in Print

1. Papers Presented at Professional Meetings

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

95. †Lin, Y; Zhan, FB. 2014. GIS and Health: Cervical Cancer Disparities in Texas. *The Annual Meeting of the Association of American 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 Association of American 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 Association of American 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 Association of American 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 Association of American 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 Association of American 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 Association of American 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 Association of American 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 Association of American 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 Association of American 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 Association of American 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 Association of American 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 Association of American 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 Association of American 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 Association of American 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)*. Beijing, 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 Association of American Geographers (AAG)*. Washington, DC. April 16
72. †Wan, N; Zhan, FB. 2010. Socioeconomic disparities in prostate cancer mortality and the impact of geographic scale. *Annual Meeting of the Association of American 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 Association of American Geographers (AAG)*. Washington, DC. April 15 (poster)
70. Zhan, FB; Zhu, Y. 2010. Earthquakes can be Forecasted. *Annual Meeting of the Association of American 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 Association of American 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 Association of American 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 Association of American 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 Association of American Geographers (AAG)*. Boston, MA. April 17
56. †Wan, N; Zhan, FB. 2008. Complexity of spatial networks. *Annual Meeting of the Association of American Geographers (AAG)*. Boston, MA. April 17 (poster)
55. †Tian, N; Wilson, JG; Zhan, FB. 2008. Regional Cluster Analysis of Female Breast Cancer at the County Level of the United States. *Annual Meeting of the Association of American 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, China, 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 Joint 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 Association of American 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 Association of American 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 Association of American Geographers (AAG)*. Chicago, IL, March 11.
42. †Wu, G; Zhan, FB. 2006. Climate Change and Water Resources Vulnerability in Texas. *Annual Meeting of the Association of American 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 Association of American 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 Ū 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 Association of American 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 Association of American Geographers (AAG)*. Philadelphia, PA, March 19. [discussant]
32. Zhan, FB. 2004. What is the Weakest Links in Intermodal Transportation? *Annual Meeting of the Association of American 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 Association of American Geographers (AAG)*. Philadelphia, PA, March 15.
30. Zhan, FB; Morrill, RL. 2004. Fleming Lecture in Transportation Geography. *Annual Meeting of the Association of American 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, 2004.
28. Zhan, FB; Chen, X. 2003. Micro-Simulation of Urban Evacuation Strategies. *Annual Meeting of the Association of American Geographers (AAG)*. New Orleans, LA, March 5.
27. †Wu, G; Zhan, FB. 2003. Spatial Data Mining with Improved GIS Tools. *Annual Meeting of the Association of American Geographers (AAG)*. New Orleans, LA, March 5.
26. Zhan, FB; Morrill, RL. 2003. Fleming Lecture in Transportation Geography. *Annual Meeting of the Association of American 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 Association of American Geographers (AAG)*. New Orleans, LA, March 5.
24. Zhan, FB. 2003. GIS-Based Allocation Analysis of Regional Water Demand. *Geoinformatics 2002: Geoinformatics 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 Association of American 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 Association of American 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 Association of American 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 Association of American 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 Association of American Geographers (AAG)*. Charlotte, NC.
7. Zhan, FB. 1995. A Family of Spatio-Temporal Competitive Location Models in Mobile Trading. *Annual Meeting of the Association of American 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 Association of American 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.

2. Invited Talks, Lectures, and Presentations

77. 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
76. 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
75. Zhan, FB. 2013. Earthquake Forecast based on Gravity Change. Second Crust Monitoring and Application Center, China Earthquake Administration, Xi'An, China. June 7
74. Zhan, FB. 2010. Gravity Monitoring and Earthquake Forecast: New Evidence from China. Department of Civil Engineering, Purdue University, West Lafayette. April 12.
73. Zhan, FB. 2010. Are Earthquakes Really Unpredictable? Department of Geography, Texas State University-San Marcos. February 5.
72. Zhan, FB. 2009. GIS-Augmented Environmental Health Research. Department of Land Surveying & Geo-Informatics, The Hong Kong Polytechnic University, Hong Kong, China. November 2.
71. Zhan, FB. 2009. Big Country, Advanced Science and Technology, and Forever Lasting Work. Wuhan University, Wuhan, China. October 26.
70. Zhan, FB. 2009. GIS-Augmented Environmental Health Research. Department of Biology, Texas Lutheran University, Seguin, Texas. October 8.
69. Zhan, FB. 2009. Maternal Residential Proximity to Superfund Sites & Low Birth Weight in Offspring. Texas Department of State Health Services, Austin, Texas. September 22.
68. Zhan, FB. 2009. Geographic Information Science and Technology for Hazards and Environmental Health Research. Shandong University of Science and Technology, Qingdao, China. July 3.

67. 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.
66. Zhan, FB. 2009. How to Become a Beginning Scholar. Central South University, Changsha, China. June 17.
65. Zhan, FB. 2009. Transportation Analysis and Research. Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, Shenzhen, China. June 3.
64. 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**)
63. Zhan, FB. 2008. Geospatial Analysis and Computation: Some Example Applications. Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, Shenzhen, China. June 30.
62. 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
61. Zhan, FB. 2008. GIS and Disaster Management. Shanxi Provincial Bureau of Earthquake Administration, Xi'An, China. May 5
60. 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
59. Zhan, FB. 2008. Regional Climate Change and its Impacts on Water Resources in Texas. Central South University, Changsha, China. April 15
58. 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
57. 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
56. 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
55. 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**)
54. 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**)
53. Zhan, FB. 2007. Microsimulation of Urban Evacuation. Wuhan University, Wuhan, China. June 15

52. Zhan, FB. 2007. Geographic Information Systems and Transportation Analysis. Heilongjiang Institute of Technology, Haerbin, China. June 9
51. Zhan, FB. 2007. Geographic Information Systems and Transportation Analysis. Northeast Normal University, Changchun, China. June 4
50. Zhan, FB. 2007. Geographic Information Systems and Transportation Analysis. Northeastern University, Shenyang, China. June 1
49. Zhan, FB. 2007. Microsimulation as a Means to Understand the Complexity of Urban Evacuation. Tsinghua University, Beijing, China. May 29
48. Zhan, FB. 2007. Microsimulation of Urban Evacuation. Central South University, Changsha, China. May 25
47. 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
46. Zhan, FB. 2007. GIS and Spatial Analysis for Epidemiological Research. Health Science Center, University of North Texas, Fort Worth, Texas. February 26
45. Zhan, FB. 2007. Agent-Based Modeling of Network Dynamics for Evacuation Planning. Institute for Geoinformatics, University of Münster, Münster, Germany. December 18
44. Zhan, FB. 2006. GIS-Augmented Environmental Health Research. Central South University, Changsha, China. October 23
43. Zhan, FB. 2006. GIS-Augmented Environmental Health Research. The 4th International Academic Conference on Environmental and Occupational Medicine. Kunming, China, October 18. (**plenary speech**)
42. Zhan, FB. 2006. GIS and Environmental Epidemiology: Maternal Residential Proximity to Industrial Facilities and Congenital Malformations in Offspring. East-West Center, Hawaii. June 30
41. 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
40. 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
39. Zhan, FB. 2006. GIS and its Applications in Transportation and Environmental Health Research. Department of Computer Science, Texas State University-San Marcos. April 28
38. Zhan, FB. 2006. GIS-Augmented Environmental Health Research. University of Texas at San Antonio^UDepartment of Earth and Environmental Science. February 7
37. 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.
36. 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

35. Zhan, FB. 2005. Global Environmental Change, Human Health, GIScience - ¿ What Are the Connections? Central South University, Changsha, China. June 27
34. 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.
33. Zhan, FB. 2005. Distributed Modeling for Human Environmental Studies. USGS EROS Data Center, Sioux Falls, SD. April 22
32. 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
31. Zhan, FB. 2004. Health and the Environment: GIS-Augmented Environmental Epidemiology for Birth Defects Research. University of Illinois at Carbondale, IL. October 26
30. Zhan, FB. 2004. GIScience in the United States: Applications and Research Frontiers. Heilongjiang Institute of Seismology Research. Haerbin, Heilongjiang, China. July 29
29. 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
28. Zhan, FB. 2003. Spatial Data Mining for Environmental Health. CentroGeo, CONACYT, Mexico City, Mexico. July 31
27. Zhan, FB. 2003. A Glimpse of Ongoing GIS Research Activities at the Texas Center for Geographic Information Science. Virginia Polytechnic Institute and State University, Blacksburg, VA. June 24
26. Zhan, FB. 2003. GIS and its Applications in Transportation Analysis and Environmental Health Research. Virginia Polytechnic Institute and State University, Alexandria, VA. June 23
25. 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
24. 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
23. Zhan, FB. 2002. GIS Applications in Land Management in the USA. Shenzhen Municipal Planning and Land Information Center, Shenzhen, China. April 12
22. Zhan, FB. 2002. Geographic Dimensions of Biomass and Bioenergy. Department of Geography, The Chinese University of Hong Kong, China. March 21
21. Zhan, FB. 2002. GIS and Health Research. Joint Laboratory for Geoinformation Science, The Chinese University of Hong Kong, Hong Kong, China. March 19
20. 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
19. Zhan, FB. 2002. GIS: An Overview of Application Areas and Research Frontier. Guangdong Institute of Land Surveying and Planning, China. February 28
18. Zhan, FB. 2002. An Overview of GIS Application Areas in the United States. Tianjin Information Center of Critical Geospatial Infrastructure, Tianjin, China. February 4

17. 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
16. Zhan, FB. 2000. GIS-Based Estimation and Allocation of Criteria Pollutants Emissions. Texas Natural Resource Conservation Commission (TNRCC). Austin, TX, August 25
15. 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
14. 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
13. 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
12. 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
11. Zhan, FB. 1999. GIS-Based Transportation Analysis for Regional Integrated Biomass Assessment. Department of Geography, University of Wisconsin, Madison, WI. February 5
10. Zhan, FB. 1999. Regional Integrated Biomass Assessment (RIBA) Using GIS. Department of Geography, The Ohio State University, Columbus OH. January 23
9. Zhan, FB. 1998. Texas Data Center for Crime Mapping and Analysis. Presentation to Representative Henry Cuellar, Laredo, TX. October 19
8. Zhan, FB. 1998. Multiple-Institution Teaching Center (MITC) Site Location Analysis. Texas State President Cabinet. San Marcos, TX. April 16
7. Zhan, FB. 1997. A Web-Based Texas Recycling Markets Information System (RMIS). Presentation to Houston-Galveston Area Council of Government, TX. May 8
6. Zhan, FB. 1997. A Web-Based Texas Recycling Markets Information System (RMIS). Presentation to Permian Basin Council of Government, Midland, TX. April 25
5. Zhan, FB. 1997. A Web-Based Texas Recycling Markets Information System (RMIS). Presentation to North Texas Council of Government, Dallas, TX. April 11
4. Zhan, FB. 1996. A New Method For Cluster Detection in Spatial Point Patterns. Department of Mathematics, Texas State University, San Marcos, TX. March 27
3. Zhan, FB. 1995. A Spatial Decision Support System for Wood Fuel Procurement. Department of Geography, Southwest Texas State University, San Marcos, TX. April 27
2. Zhan, FB. 1994. Spatio-Temporal Location Theory of Mobile Trading. Management Science Program, The University of Tennessee, Knoxville, TN. September 16
1. Zhan, FB. 1989. Urban Land Classification Using Knowledge-Based Systems. Center for Computer Graphics and Mapping, Faculty of Geodesy, Delft University of Technology, The Netherlands. April 20

3. Consultancies

4. Workshops

5. Other

C. Grants and Contracts

1. Funded External Grants and Contracts

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

21. 2012–2015	CNY700,000 (\$110,000)
<i>Natural Science Foundation of China</i>	
Space-Time Evolution of Gravity Field before and after the Wenchuan Earthquake	
PI: Yiqing Zhu; US Collaborator: F. Benjamin Zhan	
20. 2011–2014	\$499,987
<i>United States Environmental Protection Agency (USEPA)</i>	
<i>Science To Achieve Results (STAR) Program</i>	
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	
19. 2009–2010	\$15,000
<i>Texas Department of Transportation</i>	
Texas Department of Transportation (TxDOT) Research Technical Assistance Panels	
18. 2008–2011	CNY300,000 (\$43,800)
<i>China Ministry of Education, the Li Ka Shing Foundation (Hong Kong), and Wuhan University</i>	
Visual Geospatial Analytics and its Applications in Human-Environmental Sciences	
17. 2008–2009	\$87,991
<i>Texas Department of State Health Services</i>	
GIS-Augmented Environmental Health Research in Texas:	
Maternal Residential Proximity to Superfund Sites and Low Birth Weight in Offspring	
16. 2007–2008	\$26,907
<i>Texas Department of State Health Services</i>	
GIS-Based Analysis for Linking Environmental and Birth Data	
15. 2007–2008	\$30,877
<i>Texas Department of State Health Services</i>	
GIS for Environmental Health Data Analysis in Texas	
14. 2005–2007	\$65,000
<i>United States Environmental Protection Agency (USEPA)</i>	
"Dos Laredos": Integrating Monitoring, Watershed Education, and Litter Cleanup	

13.	2005–2006 <i>United States Environmental Protection Agency (USEPA)</i> Learning Urban Watersheds	\$15,412
12.	2005–2007 <i>Texas Department of Transportation</i> Regional Public Transportation Solutions for Intercity Commuting Problems	\$59,560
11.	2004–2006 <i>Texas Commission on Environmental Quality (TCEQ)</i> The Texas Watch Program	\$656,842
10.	2004–2008 <i>United States Department of Agriculture (USDA)</i> <i>(part of the grant – USDA/CSREES Award No: 2004-38899-02181)</i> Sustainable Agricultural Water Conservation in the Rio Grande Basin– GIS and Climate Modeling Component (sub-contract through the River Systems Institute at Texas State)	\$161,395
9.	2003–2006 <i>United States Department of Defense (USDOD)</i> 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	\$1,000,000
8.	2002–2003 <i>Houston Endowment</i> The Impacts of Economic and Population Growth on Water Quality and Physical Habitat in the Guadalupe River Basin (sub-contract through River Systems Institute at Texas State)	\$25,000
7.	2002–2005 <i>United States Centers for Disease Control and Prevention (CDC)</i> (subcontract through the Texas Center for Birth Defects Research and Prevention) Residential Proximity to Environmental Hazards and Congenital Malformations in Offspring PI: Jean Brender; Co-PIs: F. Benjamin Zhan, Lucina Suarez, Peter Langlois	\$215,495
6.	2001–2003 <i>Texas Workforce Commission</i> High Tech Workforce Training for Youth: Geospatial Information Technology PI: Richard Boehm; Co-PI: F. Benjamin Zhan	\$238,000
5.	2000–2001 <i>Texas Department of Public Safety</i> Texas GIS-Based Sex Offender Location Notification Seed Grant	\$50,000

PI: F. Benjamin Zhan; Co-PI: Lawrence Estaville

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|----|---|-----------|
| 4. | 2000–2001 | \$43,365 |
| | <i>Texas Natural Resources and Conservation Commission</i> | |
| | GIS-Based Pollutants Emission Estimation and Allocation along the Texas-Mexico Border | |
| 3. | 1998–2000 | \$107,830 |
| | <i>Lower Colorado River Authority (LCRA)</i> | |
| | Modeling Urban Growth and GIS-Based Allocation Analysis of Regional Water Demand and Supply | |
| 2. | 1998–1999 | \$33,045 |
| | <i>Texas Natural Resources and Conservation Commission</i> | |
| | A Web-Based Recycling Markets Information System II | |
| 1. | 1997–1998 | \$44,740 |
| | <i>Texas Natural Resources and Conservation Commission</i> | |
| | A Web-Based Recycling Markets Information System II | |
| | PI: Robert Larsen; Co-PI: F. Benjamin Zhan | |

2. Submitted, but not Funded, External Grants and Contracts

(all submissions omitted)

3. Funded Internal Grants and Contracts

- | | | |
|----|--|----------|
| 3. | 1997–1998 | \$10,588 |
| | <i>Texas State University-San Marcos</i> | |
| | 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 |
| | <i>Texas State University-San Marcos</i> | |
| | Shortest Path Algorithms: An Empirical Evaluation Using Real Road Networks | |
| 1. | 1996–1997 | \$3,000 |
| | <i>Texas State University-San Marcos</i> | |
| | Models of Fuzzy Spatial Relations | |

4. Submitted, but not Funded, Internal Grants and Contracts

(all submissions omitted)

D. Fellowships, Awards, Honors

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–San Marcos

2011

Golden Apple Award for Scholarship (senior level)
College of Liberal Arts, Texas State University–San Marcos

2008

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

2008

Golden Apple Award for Scholarship (senior level)
College of Liberal Arts, Texas State University–San Marcos

2008

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

2008

Marquis Who's Who in Science and Engineering (2008-2009; Special 10th Anniversary Edition)

2007

Dean's Excellence Awards in Scholarly and Creative Activities
College of Liberal Arts, Texas State University–San Marcos

2007

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

2003-2005

Chair, Association of American Geographers (AAG), Transportation Geography Specialty Group

IV. SERVICE

A. University

2012

Member, Presidential Award Committee, Texas State

2011–14

Member, Formosa Professorship Nominating Committee, Texas State

2010–

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–San Marcos

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

B. Departmental

2013–2014

Member, Evaluation Committee, Texas State Department of Geography

2013–2014

Member, GIScience Faculty Position Search Committee

Texas State Department of Geography

2012–2013

Member, Colloquium Committee, Texas State Department of Geography

2011–2013

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

2012–

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

2011–

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

2010–

Member, Faculty Evaluation Committee, Texas State Department of Geography

2011–

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

2006–2011

Member, Graduate Committee, Texas State Department of Geography

2010–

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

2010

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

2009

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, Faculty Annual Evaluation Scoring Committee
Texas State Department of Geography

2006

Member, Faculty Annual Evaluation Scoring 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

1996–1993

Member, Chair's 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

C. Community

2001–2002

Austin Great Wall Chinese School. Board member and treasurer

1997

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

D. Professional

1. Editorial Boards

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

Journal of Transport Geography (2005-present)

Environmental Health Insights (2008-present)

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

2. External Review for Tenure and Promotion Cases

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)

3. Service on Review Panels/Committees

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

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

Texas Department of Transportation - Technical Assistance Panel

2004-Present

U. S. National Institutes of Health - National Cancer Institute

2007, 2009

U. S. National Science Foundation

2003, 2008

4. Service as a Referee/Reviewer for Journals, Publishers, or Conferences

[Key: name of journal/conference/publisher; year of review (number of reviews).]

American Journal of Epidemiology
2007

American Journal of Public Health
2010

Annals of the Association of American Geographers
2011

Annals of GIS
2010, 2011, 2012

Annual National Conference on High Performance Computing–2007 (HPC China 2007)
2007(11)

Applied Geography
2010, 2012

Asian Geographer
2012

BMC Public Health
2004

Cartographica
1996, 1997

Cartography and Geographic Information Sciences
1997, 1998, 2009, 2012, 2013

Chang Jiang (Cheung Kong) Scholars Award Program, China Ministry of Education (Beijing, China) and the Li Ka Shing Foundation (Hong Kong, China)
2008, 2009, 2012, 2013

Computers, Environment and Urban Systems
2002, 2005, 2010, 2013

Computers and Graphics
2009

Conference on Spatial Information Theory (COSIT)
1999, 2001(3), 2003(4)

Environment and Planning A
2000, 2001, 2003

Frontiers of Earth Science
2012

Environmental Health Insights
2012

European Journal of Geography
2011

Geocarto International

1999, 2007

Geographical Analysis

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

Geographic Information Sciences

2002

Geoinformatica

1998

International Conference on GeoInformatics

2011(10), 2012(9), 2013(3), 2014(3)

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)

International Journal of Applied Earth Observation and Geoinformation

2010

International Journal of Geographical Information Science

1994, 1997, 2000, 2003, 2004, 2006, 2007, 2010, 2013

International Journal of Health Geographics

2005(2)

International Journal of Intelligent Systems Technologies and Applications

2005

International Journal of Remote Sensing

2009

Journal of Geographic Information and Decision Analysis

1997

Journal of Geography

2012

Journal of Transport Geography

2001, 2003, 2005, 2006(2), 2007(3), 2008(3), 2009, 2010(2), 2011(3), 2012(4)

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

Networks

1998

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

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)

Transactions in GIS

2002

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—John Wiley and Sons

2003

Publisher—McGraw-Hill

2007

5. Service on Conference Committees

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, 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.

E. Organizations

1. Honorary

2. Professional

Member:

American Geophysical Union (AGU)

Seismological Society of America (SSA)

Association of Chinese Professionals in Geographic Information Systems

Southwest Association of American Geographers (SWAAG)

Association of American 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

Formerly:

Association of Computing Machinery (ACM)

Institute for Operations Research and the Management Sciences (INFORMS)

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

F. Services Honors and Awards