

# CURRICULUM VITAE

## QISHENG PAN, Ph.D.

*Professor and Chair*

Department of Urban Planning and Environmental Policy  
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### EDUCATION

- PhD Planning, University of Southern California, 2003
- MS Computer Science, University of Southern California, 2001
- MS Remote Sensing and GIS, Peking University, China, 1995
- BS Geology, Peking University, China, 1992

### ACADEMIC POSITIONS

- 2011-present Professor, Department of Urban Planning and Environmental Policy  
Texas Southern University
- 2010-present Chair, Department of Urban Planning and Environmental Policy  
Texas Southern University
- 2008-2010 Interim Chair, Department of Urban Planning and Environmental Policy  
Texas Southern University
- 2003-2011 Associate Professor, Department of Urban Planning and Environmental Policy  
Texas Southern University
- 2007 summer Visiting Professor, Department of Industrial and Systems Engineering  
University of Southern California
- 2005-2008 Guest Professor, School of Urban Design  
Wuhan University, China
- 1995-1996 Researcher, Institute of Remote Sensing Applications  
Chinese Academy of Science, China

## RESEARCH INTERESTS

- Freight Transportation Modeling
- Economic Impact Analysis
- Urban Transportation and Land Use
- Applications of GIS & Computer Techniques in Urban Studies

## REFERRED JOURNAL ARTICLES

- Pan, Q.** (2012) "The Impacts of an Urban Light Rail System on Residential Property Values: A Case Study of the Houston METRORail Transit Line," *Journal of Transportation Planning and Technology* (forthcoming).
- Pan, Q.,** P. Gordon, J. Moore, and H. W. Richardson (2011) "Modeling the Effects of Peak-Load Pricing on Metropolitan Network and Activities," *Transportation Research Record (TRR), Journal of the Transportation Research Board, No. 2255, pp. 11-19.*
- Pan, Q.** (2011) "Economic Losses from a Hypothetical Hurricane Event in the Houston-Galveston Area," *Natural Hazard Review, Vol 12, No. 3, 146-155.*
- Giuliano, G., P. Gordon, **Q. Pan,** and J. Park (2010) "Accessibility and residential land values: Some tests with new measures," *Urban Studies, Vol. 47, No. 14, 3103-3130.*
- Giuliano, G., P. Gordon, **Q. Pan,** J. Park, L. Wang (2010) "Estimating Freight Flows for Metropolitan Area Highway Networks Using Secondary Data Sources," *Networks and Spatial Economics, Vol. 10, No. 1, 73-91.*
- Pan, Q.,** H. W. Richardson, P. Gordon, and J. Moore (2009) "The Economic Impacts of a Terrorist Attack on the Downtown Los Angeles Financial District," *Spatial Economic Analysis, Vol. 4, No. 2, 213-239.*
- Pan, Q.** (2009) "Regional Freight Transportation Research: Model and Applications," *China Regional Economics, Vol. 1, No. 1, 104-115.* (in Chinese)
- Pan. Q.** (2006) "Freight Data Assembling and Modeling: Methodologies and Practice," *Journal of Transportation Planning and Technology, Vol. 29, No. 1.*

Moore, J. E., Kuprenas J., Lee, J.J., Gordon, P., Richardson, H., and **Q. Pan** (2004) “Cost Analysis methodology for advanced treatment of stormwater: the Los Angeles Case,” *Journal of Construction Research*, Vol. 5, No. 2, 149-170

## BOOK

H. W. Richardson, P. Gordon, J. E. Moore, **Q. Pan**, and J. Park (2012) Applications of Regional and International Economic Impact Models (forthcoming).

**Pan, Q.** (2010), Regional Freight Modeling System: Methodology and Applications, VDM Publishing, ISBN: 978-3-639-28950-3.

## BOOK CHAPTERS

**Pan, Q.** (2012) “Southern California Planning Model (SCPM)” in H. W. Richardson, P. Gordon, J. E. Moore, Q. Pan, and J. Park (eds.) *Applications of Regional and International Economic Impact Models* (forthcoming).

**Pan, Q.** (2010) “Applications of GIS in urban planning,” in Yang, C., D. Wong, Q. Miao, and R. Yang (eds.) *Advanced Geoinformation Science*, CRC Press.

**Pan, Q.** (2010) “Regional freight transportation research: theory and model,” in Zhu, X. and S. Wu (eds.) *Business Administration in the Series on Western Research in the Humanities and Social Sciences*, China Remin University Press (in Chinese).

Gordon, P., B. Lee, J. E. Moore, **Q. Pan**, J. Park, and H. W. Richardson (2009) “Estimating the economic impacts of WMD attacks,” in Maurer, Stephen M. and Christine Hartmann-Siantar (eds.) *WMD Terrorism: Science and Policy Choices*. Cambridge: MIT Press.

**Pan, Q.**, Gordon, P., J. Moore, and H. W. Richardson (2008) “Economic impacts of terrorist attacks and natural disasters: Case studies of Los Angeles and Houston,” pp. 35-64, in Daniel Z. Sui and Susan L. Cutter (ed.) *Geospatial Technologies and Homeland Security: Research Frontiers and Challenges*, Springer.

H. W. Richardson, P. Gordon, J. E. Moore, J. Park and **Q. Pan** (2008), “The economic impacts of alternative terrorist attacks on the twin ports of Los Angeles – Long Beach,” in J. M. Quigley, and L. A. Rosenthal, eds., *Risking House and Home: Disasters, Cities, Public Policy*, Berkeley, California: Berkeley Public Policy Press.

H. W. Richardson, P. Gordon, J. E. Moore, S. Cho and **Q. Pan** (2008) “Expansion of Toll Lanes or More Free Lanes? A Case Study of SR91 in Southern California,” in H. W. Richardson and Chang-Hee Christine Bae, eds., *Road Congestion Pricing in Europe. Implications for the United States*, Cheltenham UK: Edward Elgar Publishing.

H. W. Richardson, P. Gordon, J. E. Moore, S. Kim, J. Park and **Q. Pan** (2007), “Tourism and terrorism: the national and interregional economic impacts of attacks on major US theme parks,” in H. W. Richardson, P. Gordon, and J. E. Moore, eds., *The Economic Costs and Consequences of Terrorism*, Cheltenham, UK: Edward Elgar Publishing.

Gordon, P., J. Moore, H. W. Richardson, and **Q. Pan** (2006) “The costs of a terrorist attack on Terminal Island at the twin ports of Los Angeles and Long Beach, ” in J. Haveman and H. Schatz, eds., *Protecting the Nation’s Seaports: Balancing Security and Cost*, Public Policy Institute of California.

Gordon, P., J. Moore, H. W. Richardson, and **Q. Pan** (2005) “The economic impacts of a terrorist attack on the twin ports of Los Angeles – Long Beach,” in H. W. Richardson, P. Gordon, and J. E. Moore, eds., *The Economic Impacts of Terrorist Attacks*, Cheltenham, UK: Edward Elgar Publishing.

## **WORK IN PROGRESS**

**Pan, Q.**, “Estimate the Economic Losses of Hurricane IKE in the Greater Houston Region,” Revised in August, 2011.

## **FUNDED RESEARCH**

2006-2008	PI	Develop Emissions, Truck Trips and Railcars Estimation Methodology for Major Texas Ports (Project 0-5415)	Texas Department of Transportation (TXDOT)	\$290,000
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2005-2006	Co-PI	Measuring Access to Public Transportation Services (Project 0-5178, Phase II) (PI: Chandra Bhat at UT-Austin)	<i>Texas Department of Transportation (TXDOT)</i>	\$100,000
2004-2005	Co-PI	Measuring Access to Public Transportation Services (Project 0-5178, Phase I) (PI: Chandra Bhat at UT-Austin)	<i>Texas Department of Transportation (TXDOT)</i>	\$290,000
2004	PI	Regional economic impacts of port closure under terrorist attack: Case study on the Ports in Los Angeles and Houston (Seed Grant)	<i>Texas Southern University (TSU)</i>	\$6,500
2004	Co-PI	Describe and improve the decision-making processes in Houston associated with key strategic goals (Share with Isabelle Maret at TSU)	<i>BluePrint Houston</i>	\$16,000
2003	PI	Studied on the sub-centers in the Houston metropolitan areas	<i>Texas Southern University (TSU)</i>	\$20,000

**CONSULTING AND OTHER RESEARCH EXPERIENCE**

2011	Consultant	Evaluation of Transportation Practices in the California Cut Flower Industry	<i>California Cut Flower Commission (CCFC)</i>	
2009-2010	Consultant	Towards Peak-Load Pricing in Metropolitan Areas: Modeling Network and Activity	<i>National Center for Metropolitan Transportation Research (METRANS)</i>	\$87,745
2009	Consultant	The Movement of Army Unmanned Ground Vehicles at Marine Ports.	<i>TSU Center for Transportation Training &amp; Research (CTTR)</i>	

2007	Consultant	Western Riverside County Multiple Species Habitat Conservation Plan.	<i>RAND Co.</i>	
2003-2006	Consultant	Developed ARGO – a dynamic composition of web services for goods movement analysis	<i>National Science Foundation (NSF)</i>	\$1,050,000
2004	Consultant	Examined Economic Impacts of Terrorist Attack on Large Metropolitan Areas	<i>The Homeland Security Center for Risk and Economic Analysis of Terrorism Events (CREATE)</i>	\$232,000
2002	Research Associate	Developed and tested the integration of transportation, GIS and economic methodologies for the evaluation of highway widening plans to facilitate transportation flows throughout a major metropolitan region	<i>National Center for Metropolitan Transportation Research (METRANS)</i>	
2002	Research Associate	Explored better freight flow data for analysis and planning	<i>National Science Foundation (NSF)</i>	\$99,500
2002	Research Associate	An Economic Impact Evaluation of Proposed Storm Water Treatment for Los Angeles County	<i>Coalition for Practical Regulation, City of Bellflower</i>	\$100,000
2001	Research Associate	Examined the social economic impacts of Caltrans I-5 expansion plan on the SCAG (Southern California Association of Governments) region	<i>California Department of Transportation (Caltrans)</i>	\$125,000
2000-2001	Research Associate	Assembled and processed freight shipment data by developing a GIS-Based origin-destination matrix for Southern California freight flows	<i>National Center for Metropolitan Transportation Research (METRANS)</i>	

## RESEARCH REPORTS AND OTHER PUBLICATIONS

### *Research Reports*

- Gordon, P., and **Pan, Q.**, (2010) Modeling the Effects of Peak-Load Pricing on Metropolitan Network and Activities. Los Angeles and Long Beach, CA: Final Report to the National Center for Metropolitan Transportation Research (METTRANS), Project 10-03.
- Gordon, P., Richardson, H. W., Moore, J. E., **Pan, Q.**, Park, J., Cho, S., Cho, J., Jun, E., Nguyen, C., Ryu, S., Yoon, S. (2010) TransNIEMO: Economic Impact Analysis using a Model of Consistent Interregional Economic and Highway Network Equilibria. Los Angeles, CA: Final Report to the Center for Risk and Economic Analysis of Terrorism Events (CREATE).
- Peter Gordon, Harry W. Richardson, James E. Moore II, Ji Young Park, Sooung Kim, and **Qisheng Pan** (2009) *Tourism and Terrorism: The National and Interregional Economic Impacts of Attacks on Major U.S. Theme Parks*, Los Angeles, CA: Final Report to the Center for Risk and Economic Analysis of Terrorism Events (CREATE).  
([http://research.create.usc.edu/nonpublished\\_reports/21/](http://research.create.usc.edu/nonpublished_reports/21/))
- Hall, T. D., C. A. Lewis, **Q. Pan**, K. Godazi, and R. Morgan (2009) *The Movement of Army Unmanned Ground Vehicles at Marine Ports, Final Report*, Center for Transportation Training & Research (CTTR), Texas Southern University.
- Peter Gordon, Harry W. Richardson, James E. Moore II, **Qisheng Pan**, Ji Young Park, Joongkoo Cho, SooHyun Cho, Jongeun Jun, Eunha Jun, Christine Nguyen, SungHo Ryu, SunSu Yoon (2009) *TransNIEMO: Economic Impact Analysis Using a Model of Consistent Interregional Economic and Highway Network Equilibria*, Los Angeles, CA: Final Report to the Center for Risk and Economic Analysis of Terrorism Events (CREATE)  
([http://research.create.usc.edu/project\\_summaries/19/](http://research.create.usc.edu/project_summaries/19/) )
- Lee, Bumsoo, Gordon, Peter, Moore, James E. II, Park, Ji Young, Richardson, Harry W., and **Pan, Qisheng** (2009) *Estimating the Economic Impacts of WMD Attacks. Published Articles & Papers*. Paper 137, Los Angeles, CA: Final Report to the Center for Risk and Economic Analysis of Terrorism Events (CREATE) ([http://research.create.usc.edu/published\\_papers/137](http://research.create.usc.edu/published_papers/137))
- Pan, Q, P. Gordon, J. E. Moore II, and H. W. Richardson (2008) *Economic Impacts of Terrorist Attacks and Natural Disasters: Case Studies of Los Angeles and Houston*, Los Angeles, CA: The

Center for Risk and Economic Analysis of Terrorism Events (CREATE).

([http://research.create.usc.edu/nonpublished\\_reports/27/](http://research.create.usc.edu/nonpublished_reports/27/))

**Pan, Q.** (2007) *Develop Emissions, Truck Trips and Railcars Estimation Methodology for Major Texas Ports*. Report of Project 0-5415 (Task 1 and Task 2) to Texas department of Transportation, Austin, Texas.

Bhat, C., B. Paterson, S. Bricka, J. Guo, and **Q. Pan** (2006) *Measuring Access to Public Transportation Services*. Report of Project 0-5178 to Texas department of Transportation, Austin, Texas.

Peter Gordon, James E. Moore II, Harry W. Richardson, **Qisheng Pan** (2006) *The Costs of A Terrorist Attack on Terminal Island at the Twin Ports of Los Angeles and Long Beach*, Los Angeles, CA: Final Report to the Center for Risk and Economic Analysis of Terrorism Events (CREATE). ([http://research.create.usc.edu/nonpublished\\_reports/33/](http://research.create.usc.edu/nonpublished_reports/33/) )

Peter Gordon, James E. Moore II, Harry W. Richardson, **Qisheng Pan** (2005) *The Economic Impact of a Terrorist Attack on the Twin Ports of Los Angeles- Long Beach*, Los Angeles, CA: Final Report to the Center for Risk and Economic Analysis of Terrorism Events (CREATE). ([http://research.create.usc.edu/nonpublished\\_reports/23](http://research.create.usc.edu/nonpublished_reports/23) )

**Pan, Q.** and M. A. Weininger (2004) *A Cross-Section of Greater Houston's Commercial and Economic Leadership*, Report on the Status of Planning for Economic Development in Houston, BluePrint Houston, Houston, Texas.

([http://www.blueprinthouston.org/documents/economic\\_development.doc](http://www.blueprinthouston.org/documents/economic_development.doc) )

**Pan. Q.** (2004) *Regional Economic Impacts of Port Closure Under Terrorist Attack: Case Studies on the Ports in Los Angeles and Houston*, Final Report, Texas Southern University, Houston. Texas.

**Pan, Q.** (2003) *The Identification of Employment Subcenters in the Houston Metropolitan Area*, Final Report, Texas Southern University, Houston. Texas.

Peter Gordon, John Kuprenas, Jiin-Jen Lee, James E. Moore, Harry W. Richardson, Christopher Williamson, Donghwan An, **Q. Pan**, Ken Rekdahl, and Xia Zhu (2002) *An Economic Impact Evaluation of Proposed Storm Water Treatment for Los Angeles County*, Final Report, School of Engineering and the School of Policy, Planning, and Development, Los Angeles. California.



Peter Gordon and **Q. Pan** (2001) Assembling and Processing Freight Shipment Data: Developing a GIS-Based Origin-Destination Matrix for Southern California Freight Flows, Report No. FHWA/CA/OR-2001-15. California Department of Transportation, Sacramento, California. ([http://www.metrans.org/Research/Final\\_Report/99-25\\_Final.pdf](http://www.metrans.org/Research/Final_Report/99-25_Final.pdf)).

### **Conference Proceedings**

**Pan, Q., and Z. Dong** (2012) “Optimized Selection of Landfill Sites in Houston Area Using Geographical Information System” *IEEE GRSS Proceedings of the 6th International Association for China Planning (IACP) Conference, June 17-19, 2012, Wuhan University, Wuhan, China.*

**Pan, Q., P. Gordon, J. E. Moore, H. Richardson, J. Park, J. Cho, S. Cho, S. Ryu, and E. Jun** (2011) “Examine the Effects of Highway Bridge Collapse on Freight Flows,” *the Proceedings of the 2011 ESRI International User Conference, July 11-15, San Diego, California.*

**Pan, Q.** (2005) “Web-Based Regional Freight Data Collection and Modeling,” *the Proceedings of the fifth NACOTA China International Transportation Conference, June 24-25, Xian, Shaanxi, China.*

**Pan, Q.** and L. Ma (2005) “Estimate the Change of Mode Share by a Transit Project,” *the Proceedings of the 25<sup>th</sup> ESRI International User Conference, July 25-29, San Diego, California.*

**Pan, Q.** (2004) “Freight transportation and planning: Case study on the two ports in Los Angeles,” *the Proceedings of the 21<sup>st</sup> Century Urban Development International Conference, Wuhan, China*

Gordon, P., J. E. Moore, H. W. Richardson, and **Q. Pan** (2004), “The Economic Impact of a Terrorist Attack on the Twin Ports of Los Angeles-Long Beach”, *the Symposium on Economic Costs and Consequences of a Terrorist Attack, the Center for Risk and Economic Analysis of Terrorism Events (CREATE), University of Southern California, August 20-21.*

**Pan, Q.,** and L. Ma (2004) “Employment Subcenter Identification: A GIS-Based Method,” *the Proceedings of the 24<sup>th</sup> ESRI International User Conference, San Diego, California.*

Jose Luis Ambite and Genevieve Giuliano and Peter Gordon and Andreas Harth and Karanbir Jassar and **Q. Pan** and LanLan Wang (2004) “Argos: Dynamic Composition of Web Services for Goods Movement Analysis and Planning (pdf)”, Project Highlight at the *National Conference on Digital Government Research (dg.o 2004), Seattle, Washington, California, May.*

Jose Luis Ambite, Genevieve Giuliano, Peter Gordon, Andreas Harth, Karanbir Jassar, **Q. Pan**, and LanLan Wang (2004) “Argos: An Ontology and Web Service Composition Infrastructure for Goods Movement Analysis (pdf)”, *the Proceedings of the National Conference on Digital Government Research (dg.o 2004)*, Seattle, Washington, California, May.

**Pan, Q.** and L. Ma (2004) “An XML-Based Freight Data Management and Analysis System”, *the Proceeding (CDROM) of the 83<sup>rd</sup> Annual Meeting of the Transportation Research Board, Jan. 11-15. Washington D.C.*

**Pan, Q.** (2003) “ICT and Transportation”, *the Star/Stella Next Generation Colloquium 2003*, Montreal, Quebec, Canada.

Ambite, JL. G Giuliano, P. Gordon, **Q. Pan**, S. Bhattacharjee. (2002) “Integrating Heterogeneous Data Sources for Better Freight Flow Analysis and Planning”, *the Proceedings of the 2002 National Conference on Digital Government Research, California.*  
(<http://www.diggov.org/archive/library/pdf/ambite2.pdf>)

**Pan, Q.** (1996) “3D Modeling Technology and Applications in Remote Sensing and GIS”, *the Proceedings of Geoinformatics’96 International Symposium*, Florida.

**Pan, Q.** (1995) “Research on the 3D modeling Approaches Oriented to the Objects of Remote Sensing”, *the Proceedings of the 2<sup>nd</sup> Asia Regional GlobeSAR Workshop*, Beijing, China.

## CONFERENCE PRESENTATIONS, WORKSHOPS, AND INVITED SPEECHES

### *Conference Presentations*

**Pan, Q.** (2012) “Urban Growth and Transportation Development Patterns for China’s Urban Transition,” the 6th International Association for China Planning (IACP) Conference, June 17-19, 2012, Wuhan University, Wuhan, China.

**Pan, Q.** (2012) “ Estimate the Economic Losses of Hurricane IKE in the Greater Houston Region,” *the Geoinformatics 2012, June 15-17. Hong Kong.*

**Pan, Q.** (2012) “The Impacts of Light Rail on Residential Property Values in a Nonzoning City: A New Test of the Houston METRORail Transit Line,” *the WRSA 51st Annual Meeting, February 8-11, Kauai, Hawaii.*

- Pan, Q.,** Gordon, P., Moore, II, J. E., Richardson, H. W., J. Park, J. Cho, S. Cho, S. Ryu, E. Jun (2012) “Estimating the Effects of Highway Infrastructure Failure on Freight Flows for the U.S. Highway Network,” *the 91<sup>st</sup> TRB Meeting, Jan. 22-26, Washington DC.*
- Pan, Q.,** Moore, II, J. E., Richardson, H. W. (2011) “Estimating the Effects of Congestion Pricing Policy,” *the International Conference on Urban and Regional Development in the 21st Century and Lingnan Forum, Dec. 16-18, 2011, Guangzhou, China*
- Pan, Q.,** Richardson, H. W., Moore, II, J. E., and C. Nguyen (2011) “The Business Interruption and Transportation Impacts of a Terrorist Attack on Southern California Shopping Malls,” *The 58th NARSC Annual Meeting, November 9-12, 2011, Miami, Florida.*
- Pan, Q.** and J. E. Moore, II (2011) “Modeling the Effects of the Regional Development Plans on Mobility,” *the 5th International Association for China Planning (IACP) Conference, June 17-19, 2011, Renmin University, Beijing.*
- Pan, Q.,** Gordon, P., Moore, II, J. E., Richardson, H. W. (2011) “Modeling the Effects of Congestion Pricing Policy on Regional Highway Networks,” *the 52<sup>nd</sup> Annual Transportation Research Forum, March 10-12, 2011, Long Beach, California.*
- Pan. Q., J. E., Moore, Richardson, H. W. (2011) “Modeling the Effects of the Regional Development Plans on Mobility,” *the 50<sup>th</sup> Anniversary meeting, February 27 - March 2, 2011, Monterey, California.*
- Pan, Q.,** Gordon, P., Moore, II, J. E., Richardson, H. W. (2011) “Modeling the Effects of Peak-Load Pricing on Metropolitan Network and Activities,” *the 2011 TRB 90<sup>th</sup> Annual Meeting, January 23-27, 2011, Washington DC.*
- Pan, Q.,** Gordon, P., Moore, II, J. E., Richardson, H. W. (2010) “Modeling the Effects of Peak-Load Pricing on Metropolitan Network and Activities,” *the 2010 ACSP Conference, October 7-10, 2010, Minneapolis, Minnesota.*
- Pan, Q.,** Gordon, P., Moore, II, J. E., and H. W. Richardson (2010) “Modeling the effects of congestion pricing policy on regional highway networks,” *the 4<sup>th</sup> IACP Conference, June 19-21, Shanghai, China.*
- Pan, Q.,** Gordon, P., Moore, II, J. E., Richardson, H. W., J. Park, J. Cho, S. Cho, S. Ryu, E. Jun (2010) “Estimating the Effects of Highway Infrastructure Failure on Freight Flows for the U.S. Highway Network,” *the 49<sup>th</sup> WRSA Meeting, Feb. 21-24, Sedona, AZ.*

- Pan, Q.**, Gordon, P., Moore, II, J. E., Richardson, H. W. (2009) “Modeling the Effects of Peak-Load Pricing on Major Highways using a Metropolitan Network Model,” *Session 40. Transportation: in the Presence of Pricing, 56th North American Meetings of the Regional Science Association International, November 18-21, San Francisco, CA.*
- Pan, Q.**, Gordon, P., Moore, II, J. E., Richardson, H. W., J. Park, J. Cho, S. Cho, S. Ryu, E. Jun (2009) “Estimating the Effects of Highway Bridge Collapse on Freight Flows for the U.S. Highway Network,” *the 50<sup>th</sup> Anniversary ACSP Conference, October 1-4, Crystal City, VA.*
- Pan, Q.** and L. Ma (2009) “The Impacts of Light Rail Systems: Methodology and Case Studies,” *the International Conference on Urban and Regional Planning in Transitional China and the 3rd International Association for China Planning (IACP) Conference, June 21-23, 2009, Nanjing, China.*
- Pan, Q.** (2009) “The Application of Dynamic Composition of Web Services for GIS-based Regional Freight Transportation Modeling,” *CPGIS 2009 Summer Research Workshop, June 18-19, 2009, Beijing, China.*
- Pan, Q.** (2009) “Estimate the Economic Losses of Hurricane IKE in the Greater Houston Region,” *the 48<sup>th</sup> Annual Meeting of Western Regional Science Association, Feb. 22-25, Napa Valley, California.*
- Pan, Q.** and L. Ma (2009) “The Impacts of Light Rail on Residential Property Values: A Case Study of the Houston METRORail Transit Line,” *Present at the TRB 88th Annual Meeting, January 11-15, Washington, DC.*
- Pan, Q.** (2007) “The Impacts of Light Rail Line on Population, Employment and Property Values: A Case Study on the Houston METRORail Transit Line,” *the ACSP 2007 Annual Conference, Oct. 18-21, Milwaukee, WI.*
- Pan, Q.** and L. Ma (2007) “Develop Urban Transit Networks for Large- and Medium-Sized Urban Areas Using GIS Data,” *The 15th International Conference on GEOINFORMATICS, May 25-27, Nanjing, China*
- Pan, Q.** (2007) “Economic Losses from a Hypothetical Hurricane Event in the Houston-Galveston Area”, *the 46<sup>th</sup> Annual meeting of Western Regional Science Association, February 21-24, Newport Beach, California*

- Harry Richardson, Peter Gordon, James Moore, and **Q. Pan** (2007) "The Economic Impact of a Terrorist Attack on Los Angeles Downtown Financial District," *the 46<sup>th</sup> Annual meeting of Western Regional Science Association, February 21-24, Newport Beach, California.*
- Pan Q.** (2006) Economic Impacts of Terrorist Attacks and Natural Disasters: Case Studies on Los Angeles and Houston, *the 2006 TAMU Symposium on "Geospatial Technologies and Homeland Security", Nov. 15, College Station, Texas.*
- Pan, Q.** and P. Gordon, (2006) Employment Centers and Commuting Patterns: The Case of Houston and Los Angeles, *the ACSP 2006 Annual Conference, Nov. 9-12, Fort Worth, Texas.*
- Gordon, P., J. Moore, J. Park, H. W. Richardson, and **Q. Pan** (2006) "The Economic Impacts of Terrorist Attacks on the Twin Ports of Los Angeles-Long Beach," *Berkeley Symposium on Real Estate, Catastrophic Risk, and Public Policy, March 23, 2006*
- Giuliano, G., P., Gordon, **Q. Pan**, J. Park, and L. Wang (2006) "Estimating Freight Flows for Metropolitan Area Highway Networks Using Secondary Data Sources," *National Urban Freight Conference, Feb. 1-3, Long Beach, California.*
- Gordon, P., J. E. Moore, H. W. Richardson, and **Q. Pan** (2005) "The Economic Impact Of A Terrorist Attack On Los Angeles Downtown's Financial District," *the ACSP 2005 Annual Conference, October 27-30, Kansas City, Missouri.*
- Giuliano, G., P. Gordon, J. Park, L. Wang and **Q. Pan** (2005) "Estimating Freight Flows for Metropolitan Area Highway Networks Using Secondary Data Sources," *the Commodity Flow Survey Conference, July 8-9, Boston, Massachusetts.*
- Pan, Q.** and L. Ma (2005) "Is light rail a competitive mode in Urban Transportation System? A Case Study on the Houston METRORail Transit Line," *the 2005 Annual meeting of Association of American Geographers (AAG), April 5-9, Denver, Colorado.*
- Pan, Q.** (2005) "Employment Subcenters in Houston, 1990-2000," *the 44<sup>th</sup> Annual meeting of Western Regional Science Association, February 23-26, San Diego, California.*
- Gordon, P., J. E. Moore, H. W. Richardson, and **Q. Pan** (2004) "The Impacts of Port Closure on Regional Economy and Transportation System: A Case Study on the Ports of Los Angeles and Long Beach," *the ACSP 2004 Annual Conference, October 21-24, Portland, Oregon.*

**Pan, Q.** and L. Ma (2004) “Change of Access to Metropolitan Public Transportation System: A GIS-Based Measurement on the New Arrival of Houston Light Rail Transit Line,” *the ACSP 2004 Annual Conference, October 21-24, Portland, Oregon.*

**Pan, Q.** (2004) “Employment Subcenters in the Houston Metropolitan Area” *the 2004 AAG Centennial Meeting, March 14-19, Philadelphia, PA.*

**Pan, Q.** (2002) “An Integrated Measure of Accessibility and Mobility”, *the ACSP 2002 Annual Conference, Baltimore, Maryland.*

### ***Workshops***

The CPGIS GoHome Project, the School of Hydraulic Engineering, Changsha University of Science & Technology, Changsha, China, June 20-23, 2011.

The CPGIS 2009 Summer Research Workshop, June 18-19, 2009, Beijing, China.

The Remote Sensing of the Urban Environment Workshop, Houston Advanced Research Center, Houston, Texas, Oct. 24-25, 2006

The REMI User Training and TranSight Conference, Austin, Texas, August 30-31, 2006

The 2006 Intergraph International Conference, Orlando, Florida, June 12-15, 2006

The 2005 JPER Writing Workshop, University of California at Berkeley, August 7-9, 2005.

### ***Invited Speeches***

Estimate the Economic Losses of Hurricane IKE in the Greater Houston Region, invited speech at the School of Resource and Environmental Management, Wuhan University, June 2012, Wuhan, China.

The Polycentric Urban Form in Houston, invited speech at the School of Architecture and Urban Planning, Huazhong University of Science and Technology (HUST), June 11, 2012, Wuhan, China.

Development and Applications of Southern California Planning Model (SCPM), invited speech at the School of Urban Design, Wuhan University, June 27, 2011, Wuhan, China.

Development and Applications of Southern California Planning Model (SCPM), invited speech at the School of Architecture and Urban Planning, Huazhong University of Science and Technology, June 27, 2011, Wuhan, China.

Development and Applications of Southern California Planning Model (SCPM), invited speech at the School of Traffic & Transportation Engineering, Central South University, June 23, 2011, Changsha, China.

Advanced Stormwater Treatment: Cost-Benefit Analysis & Case Study, invited speech at the School of Hydraulic Engineering, Changsha University of Science & Technology, June 21, 2011, Changsha, China.

Urban Transportation Modeling - Development and Applications of Southern California Planning Model (SCPM), invited speech at the School of Government, Peking University, June 17, 2011, Beijing, China.

Advanced GIS applications in urban planning, invited speech at the Research and Training Workshop, Center for Intelligent Spatial Computing, George Mason University, March 10-12, 2011, Fairfax, Virginia

Modeling the effects of congestion pricing policy on regional highway networks, invited speech at the College of Traffic and Transportation, Southwest Jiaotong University, July 8, 2010, Chengdu, China.

Modeling the effects of congestion pricing policy on regional highway networks, invited speech at the Bureau of Urban Planning of Guangzhou Municipality, June 23, 2010, Guangzhou, China.

Polycentric Urban Form in Houston, invited speech at the School of Geography and Urban Planning, Zhongshan (Sun Yat-Sen) University, June 22, 2010, Guangzhou, China.

Economic Impact Analysis in Urban Planning: Methodology and Case Studies, invited speech at the School of Government, Peking University, October 23, 2009, Beijing, China.

The Impacts of Light Rail Systems: Methodology and Case Study, invited speech at the School of Urban Design, Wuhan University, October 21, 2009, Wuhan, China.

GIS applications in urban planning, invited speech at the Research and Training Workshop, Center for Intelligent Spatial Computing, George Mason University, July 10, 2009, Fairfax, Virginia.

GIS Based Freight Modeling System, invited speech in the Department of Urban Planning at the School of Architecture and Urban Planning, Tongji University, June 24, 2009, Shanghai, China.

Measuring Transportation System Performance for Large Metropolitan Areas, invited speech at the Roundtable on Designing New Planning Measures of Transportation System Performance, *the 2008 Joint ACSP-AESOP Conference, July. 6-11, 2008, Chicago, IL.*

Economic Impact Analysis in Urban Planning: Methodology and Case Studies, presented in the Department of Urban Planning, School of Architecture, Tsinghua University, Beijing, China, June 19, 2007

Methodology and Case Studies of Economic Impact Analysis in Urban Planning, presented in the School of Government, Peking University, Beijing, China, June 19, 2007

Economic Impacts of Natural Disasters, presented in the College of Resources Science and Technology, Beijing Normal University, Beijing, China, June 18, 2007

Economic Impact Analysis in Urban Planning, presented at the Guest Professor Award Ceremony in the School of Urban Design, Wuhan University, June 6, 2007

Introduction to GIS and Economic Impacts of Stormwater Treatment, presented in Jiangxi Normal University and Hubei University as a part of Chinese Professionals in Geographic Information Science Abroad (CPGIS) Young Scholars Summit, June 26-July 4, 2005.

Commuting to jobs in Houston: 1990-2000, presented on the Research Day, Texas Southern University, April 26, 2005.

What every PAD/UPEP Students Should Know About IT, invited presentation on the Graduate Student Orientation (GSO), School of Public Affairs, Texas Southern University. August 28, 2004.

Employment subcenters in Houston 1990 – 2000, presented on the Research Day, Texas Southern University, April 28, 2004.

Regional Economic Impacts of Port Closure Under Terrorists Attack: A Case Study on the Ports in Los Angeles, invited presentation on the Home Land Security Seminar, Texas Southern University. Houston, Texas. October 2003.

Regional Freight Modeling System, invited presentation in the TransStar, Houston, Texas, Aug. 28, 2003 and in the transportation department, Houston-Galveston Council, Houston, Texas, August 12, 2003.

Freight Transportation Modeling: Methodology and Applications, invited presentations in the Los Angeles Metropolitan Transportation Authority (MTA), Los Angeles, California. February 2002 and February 2001.



Non-survey Freight Modeling Approaches, invited presentations in the USC\*Transportation and Location research Seminar, Los Angeles, California. November 2001.

(<http://www.metrans.org/whatsnew/Fall%20Seminar%202001.htm>)

Assembling and Processing Freight Shipment Data: Developing a GIS-based Origin-Destination Matrix for Southern California Freight Flows, (with Peter Gordon) invited presentation on the METRANS' annual meeting, Los Angeles, California. April 2001.

Four Dimensional Freight O-D Matrix, (with Peter Gordon) invited presentation on the METRANS' annual meeting, Los Angeles, California. May 2000.

## **TEACHING INTERESTS**

- Quantitative Methods
- GIS Techniques and Applications in Planning
- Urban Transportation Planning and Modeling
- Land Use and Transportation

## **TEACHING EXPERIENCE**

Advanced Planning Analysis (I)	Fall 2003-2010
Advanced Planning Analysis (II)	Spring 2004-2012
Quantitative Methods in Planning	Fall 2003, Fall 2005, Spring 2007, Summer 2008, Summer 2010
Introduction to GIS in Urban Planning	Fall 2004, Spring 2005, Spring 2006
Applications of GIS in Urban Planning	Spring 2008, Summer 2011
Intermediate GIS in Urban Planning	Summer 2009
Advanced GIS in Urban Planning	Fall 2006, Fall 2007
Urban Economics and Spatial Structure	Fall 2011
Spatial Data Analysis in Planning	Spring 2004, Summer 2004
Introduction to ArcGIS I (ESRI Course)	2004 –2006
Urban Transportation Planning & Management (lab)	Fall 1999

(All are graduate level classes)

## **PROFESSIONAL SERVICE**

**Paper reviews for** *Journal of Planning Education and Research, Journal of Computers, Environment and Urban Systems, Journal of Transportation Research Record, Journal of Transportation Research E, Journal of Transportation Engineering, and Journal of Hazardous Materials, Growth and Change.*

**Books reviews for** *the Handbook of Transport Geography and Spatial Systems, Methods and Models in Transport and Telecommunications: Cross Atlantic Perspectives.*

## **PROFESSIONAL AFFILIATION AND MEMBERSHIP**

- Vice Chair (Chair-Elect), Board of Directors, International Association for China Planning (IACP)
- Member, Association of Collegiate Schools of Planning (ACSP)
- Member, Western Regional Science Association (WRSA)
- Member, Transportation Research Board (TRB)
- Member, American Association of Geography (AAG)
- Member, Association of American Planning Association (APA)
- Lifetime Member, Chinese Professionals in Geographic Information Sciences(CPGIS)

## **ACADEMIC SERVICE**

- Interim Chair of Rank, Tenure, Promotion and Salary Committee, Texas Southern University (TSU), 2009 – 2010
- Member of Rank, Tenure, Promotion and Salary Committee, TSU, 2008 - 2009
- Graduate faculty, Graduate School, TSU, Fall 2003 - current
- Information Technology Committee, TSU, Spring 2004 - current
- TSU Student Affairs and Service Committee Member for the Commission on Colleges of the Southern Association of Colleges and Schools (SACS/COC), August 2007-2008

- Academic Integrity Subcommittee of the National Athletics Association (NCAA) Self Study, TSU, 2005-2006
- Technology Committee Chair, School of Public Affairs, TSU, Summer, 2003-current
- Research Committee member, School of Public Affairs, TSU, Summer, 2003-2004
- Building Committee member, School of Public Affairs, TSU, Summer, 2003-current
- Admissions Committee member, School of Public Affairs, TSU, Summer, 2003-current
- Faculty Search Committee member, School of Public Affairs, TSU, 2003, 2004, 2005, 2007, 2008, 2009.
- GIS Committee executive member, School of Public Affairs, TSU, Summer, 2003-current

## **HONORS AND AWARDS**

- 2008          Scholarship Recognition Award, School of Public Affairs, Texas Southern University
- 1998-2001    Irvine Research Assistantships, School of Policy, Planning and Development, USC
- 1995          Excellent Graduate Thesis, Peking University
- 1993-1994    Guanhua Scholarship, Peking University
- 1992-1993    Guanhua Scholarship, Peking University
- 1992          Excellent Undergraduate Thesis, Peking University
- 1990-1991    Excellent Student Award, Peking University
- 1989-1990    Excellent Student Award, Peking University

## **DEVELOPED PLANNING MODELING PACKAGES**

- Freight Modeling Package for ARGOS (2005-2007): An updated and portable version of Southern California Freight Transportation Model for freight transportation planning in large metropolitan area. The package is coded in C and runs as command-line language, which allows it to be called by either windows-based or web-based programs.
- Southern California Planning Model (SCPM) 2005 (2005-2007): An integrated system to estimate economic impacts of regional events and activities and endogenize traffic flows by including an explicit representation of the regional highway network. It was developed on Visual C++ 6.0 platform.

- Southern California Freight Transportation Model (2002): A software package for freight transportation modeling. It includes three modules: freight trip generation, freight trip distribution, and freight trip assignment. Some special modeling approaches like feedback loop, combined distribution and assignment method, etc. are implemented. This software package was developed as a part of my Ph.D. dissertation work.