

RESUME

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Work Experience and Education Background:

2006.12 — present	Visiting Research Scholar	Dept. of Civil & Environmental Eng., Florida International University
2006.7 — 2006.12	Associate Professor	College of Civil Engineering, Tongji University, China.
2001.11 — 2006.6	Assistant Professor	College of Civil Engineering, Tongji University, China.
1998.3 — 2001.6	Ph.D.	College of Civil Engineering, Tongji University, China. Dissertation: " <i>Experimental study of wind-induced interference effects between two tall buildings</i> ".
1995.7 — 1998.2	M.S.	College of Civil Engineering, Tongji University, China. Thesis: " <i>Simulation of atmospheric boundary layer flow and peak factor of fluctuating wind pressure of tall buildings</i> ".
1991.9 — 1995.7	B.S.	College of Civil Engineering, Tongji University, China.

Research Interests:

Wind Effects on Buildings and Structures; Structural Dynamics; Wind Tunnel Test; Experimental and Data Processing Techniques.

Abroad Experience:

Japan 2006, Jan.19~Mar.18 Research on wind disaster and wind-resistant structure
Wind Engineering Research Center, Tokyo Polytechnic University, Japan

Relevant Experience:

As a member of the research group of Prof. Ming GU in Tongji University, I take part in many research projects, mainly including:

Researching projects:

- (1) *Disaster Reduction in Civil Engineering-Innovation research group in Tongji University* (2004-2008, supported by Chinese National Natural Science Foundation);
- (2) *Stochastic system identification of aerodynamic parameters of long-span structure in wind tunnel test* (2004-2006, supported by Chinese National Natural Science Foundation);
- (3) *Theory and control of wind-induced vibration for complicated single building and group buildings* (1998-2002, supported by Chinese National Natural Science Foundation);
- (4) *Theory and application research on wind-induced vibration of large-scale structure in civil engineering* (1998-2001, supported by Chinese National Science Foundation for Outstanding Youth);
- (5) *Wind-resist research on super-tall building- Wind loads and dynamic responses of Shanghai Jin Mao Building (420.5m in height)*, (1996-1998, supported by Shanghai Development Foundation of Science and Technology).

Representative consulting Projects:

- (1) Wind-resist research on wind loads and responses of Terminal 2 in Shanghai Pudong International Airport (total area about 180,000m², 2005).
- (2) Wind-resist research on wind loads and responses of Terminal 3 in Beijing Capital International Airport (total area about 600,000m², 2004).
- (3) Wind-resist research on wind loads, wind-induced responses and equivalent static wind loads of Dalian Commodity Plaza (Two towers, 231m in height, 2004).
- (4) Wind-resist research on Shanghai HongYi building (142m in height, 2004)
- (5) Aeroelastic model test of Nanjing Olympic Stadium (2002-2003)
- (6) Wind-resist research on Shanghai HuaQi building (180m in height, 2002-2003). In addition to the wind loads on the whole building, the characteristics of wind pressure distributions on the double glazed facades are researched in detail.
- (7) Wind-resist research on wind loads, wind-induced responses and equivalent static wind loads of Shanghai South Railway Station (2002). The dome of Shanghai South Railway Station has a span of 220m.
- (8) Wind-resist research on Shanghai Shi Mao building and its steel antenna (total 333m in height, 2001-2002)
- (9) Wind-resist research on Xiamen Construct Bank building (176m in height, 2001). The wind tunnel tests were carried out for two times in order to modify the local contour of the building for reducing local wind pressures.

Honors/Awards

Guanghua Doctoral Fellowship, Tongji University, 2000.

Gammon Architecture Fellowship, Tongji University, 1999.

Papers and Publication:

English Journals

1. P Huang, M Gu, *Experimental study on wind-induced dynamic interference effects between two tall buildings*, *Wind and Structures --An International Journal*, 2005, Vol. 8, No. 3, 147-161. (indexed by SCI, EI)
2. M Gu, ZN Xie, P Huang, *Along-wind Dynamic Interference Effects of Tall Buildings*, *Advances in Structural Engineering*, 2005, Vol.8, No.6,623-636. (indexed by SCI)

International Conferences

3. P Huang, MY Ye, M Gu, *Experimental study on mean wind loads on cylindrical reticulated shell*, Proceedings of the 12th International Conference of Wind Engineering, July 1-6, 2007, Cairns, Australia.
4. P Huang, YJ Wang, M Gu, *Wind tunnel test and numerical simulation of mean wind loads on a container crane*, The Fourth International Symposium on Computational Wind Engineering(CWE2006), Yokohama, Japan, 2006, 893~896.
5. P Huang, M Gu, Y Quan, *Experimental Study of Aerodynamic Damping of Tall Buildings*, Proceedings of the Sixth Asia-Pacific Conference on Wind Engineering, September 2005, Seoul, KOREA, 1660-1670.
6. P Huang, M Gu, *Experimental study of aerodynamic interference effects between two tall buildings*, Proceedings of the 11th International Conference of Wind Engineering, June, 2003, Lubbock, USA, 599-606.

Chinese Journals

7. P Huang, M Gu, *Experimental study of interference effects on wind-induced torsional responses between tall buildings*, *Journal of Building Structures*, 2005, 26(4), 86-91. (indexed by EI)
8. M Gu, P Huang, *Experimental study on wind load of a double glazed facades*, *Building Structure*, 2005, 35(6), 68-71.
9. M Gu, P Huang, X Zhou, *Experimental research on wind loads and responses of Terminal 3 in Beijing Capital International Airport*, *Journal of Civil Engineering*, 2005, 38(1), 40-44.
10. M Gu, P Huang, W Yang, *Wind tunnel test and numerical simulation of mean wind loads on roof of Shanghai South Railway Station*, *Journal of Building Structures*, 2004, 25(5), 43-47 (indexed by EI)
11. M Gu, F Ye, XY Zhou, P Huang, *Countermeasures for reducing local dangerous wind pressures on a super-tall building*, *Journal of Tongji University*, 2004, 32(10), 1285-1288. (indexed by EI)
12. M Gu, XJ Hong, P Huang, *Comparison between buffeting responses of two types of antennas in wind tunnel*, *Journal of Vibration and Shock*, 2004, 23(1), 17-20. (indexed by EI)
13. W Yang, P Huang, M Gu, *Experimental and numerical study on wind-induced mean interference effects on two tall buildings*, *Journal of Tongji University*, 2004, 32(2), 152-156. (indexed by EI)
14. P Huang, M Gu, *Experimental study and comparison analysis on wind load of a large span cantilever roof*, *Structural Engineers*, 2004, 4, 51-55.
15. ZY Li, DS Wang, P Huang, M Gu, *Wind tunnel test on model of Shanghai Oriental Art Center*, *Journal of Tongji University*, 2003, 32(7), 819-823.
16. M Gu, P Huang, *Research history and state-of-art of interference effects of wind loads of*

- a cluster of tall buildings*, Journal of Tongji University, 2003, 32(7), 762-766. (indexed by EI)
17. P Huang, M Gu, *Experimental study on aerodynamic damping of tall building after being interfered*, Journal of Tongji University, 2003(31), 652-656.
 18. XJ HONG, P Huang, M Gu, *Computation and wind tunnel test of antenna buffeting response in wind*, Journal of Tongji University, 2003, 31(3), 277-281. (indexed by EI)
 19. P Huang, M Gu, *Experimental study on the mechanism of wind-induced dynamic interference effects on tall buildings*, Journal of vibration engineering, 2003, 16(1), 99-104.
 20. QH Fu, DJ Chen, P Huang, M Gu, *Wind tunnel test on model of Shanghai south railway station*, Structural Engineers, 2003, 3, 61-64.
 21. P Huang, M Gu, *Experimental study of across-wind dynamic interference effects on tall buildings*, Engineering mechanics, 2002, 19(6), 53-58. (indexed by EI)
 22. P Huang, M Gu, *Experimental study on along-wind dynamic interference effects on tall buildings*, Journal of Tongji University, 2002, 30(12), 1417-1422. (indexed by EI)
 23. P Huang, M Gu, *Study on wind-induced mean interference effects between two tall buildings*, Journal of Building Structures, 2002, 23(5), 67-72.
 24. P Huang, ZC Shi, M Gu, *Simulation method and measuring technology of atmospheric boundary layer*, Journal of Tongji University, 2001, 29(1), 40-44. (indexed by EI)
 25. P Huang, Y Quan, M Gu, *Research of passive simulation method of atmospheric boundary layer in TJ-2 wind tunnel*, Journal of Tongji University, 1999, 27(2), 136-140. (indexed by EI)
 26. P Huang, M Gu, F Zhang, F Ye, *Research of mean wind loads on Shanghai Jinmao Building*, Journal of Building Structures, 1999, 20(6), 63-68.
 27. P Huang, M Gu, ZC Shi, *Discussion about the magnitude of the factor of peak value in wind tunnel test*, Structural Engineers, 1997, 4, 16-19.