


Brief CV

Name/中文姓名	Xiaxin Tao /陶夏新	Gender	Male	
Title (Pro./Dr.)	Prof. and Dr.	Country	China	
University/Department	School of Civil Engineering, Harbin Institute of Technology			
Research Area	Earthquake Engineering, Geotechnical Engineering			

Brief introduction of your research experience:

EDUCATION:

- Ph. D. in Earthquake Engineering, Institute of Engineering Mechanics (1986)
- M. S. in Earthquake Engineering, Institute of Engineering Mechanics (1982)
- B.S. in Hydro Geology and Engineering Geology, The Changchun Geological Institute (1975)

POSITIONS HELD:

- Professor, Harbin Institute of Technology (2002-present)
- Professor, Institute of Engineering Mechanics (1993- 2002)
- Associate Professor, Institute of Engineering Mechanics (1991-1993)
- Research Associate, Institute of Engineering Mechanics (1982-1991)
- Research Assistant, Institute of Engineering Mechanics (1975-1982)

MEMBERSHIP IN SCIENTIFIC ORGANIZATIONS:

- Member, Seismological Society of China, 1998- present
- Member, Editorial Board, ACTA, Seismologica Sinica, 1998-present
- Member, Editorial Board, World Information on Earthquake Engineering, 1993-present
- Member, Editorial Board, Earthquake Engineering and engineering Vibration, 1992-present
- Member, Editorial Board, Plateau Earthquake, 1988-present

SCIENTIFIC CONTRIBUTIONS:

- (1) Developed an elliptical attenuation model for probabilistic seismic hazard assessment.
- (2) Built a computer aided system for seismicity tendency forecast by the Artificial Neural Network Approach
- (3) Developed a procedure for compiling the National Seismic Zoning Map (1990) of China
- (4) Developed a procedure for fitting Intensity attenuation relationship by means of the Error Back Propagation Approach
- (5) Developed a new two-step fitting procedure of strong ground motion attenuation relationship
- (6) Built a GIS based earthquake losses assessment and emergency response system for DAQING OIL FIELD
- (7) Developed a synthesis procedure of strong ground motion at near field
- (8) Developed a approach to inverse the shear wave velocity structure from microtremors observed at ground array
- (9) Developed a approach to inverse the excitation source function by railway traffic in unban area

- (10) Developed a model of moisture migration in soil during freeze and thaw process
- (11) Develop a modeling procedure of finite source model for ground motion synthesis
- (12) Develop a procedure for broadband ground motion

SELECTED PUBLICATIONS (in English):

Tao Xiaxin, Tao Zhengru (2020). Quantitative evaluation of engineering fortification measures against earthquake disaster. 17WCEE, 8a0013. Sendai, Japan

Tao Zhengru, Tao Xiaxin, Cao Zelin, Jiang Wei, Zheng Guangfen (2020). Some issues on improvement of ground motion synthesis for seismic analysis of large span structure. 17WCEE, 1d0057. Sendai, Japan

Cao Zelin, Tao Xiaxin, Tao Zhengru (2020). Controlling effect of source parameters on low- and high-frequency ground motions in FK approach, 1b0007. Sendai, Japan

Haiming Liu, Xiaxin Tao, Zhengru Tao and Yifang Qin (2020) . A Set of Shaking Table Model Tests of Seismic Hydrodynamic Pressure on Bridge Pier with Submerged Depth. Civil Eng Res J,11(1):CERJ.MS.ID.555804.

Haiming Liu, Xiaxin Tao, Zhengru Tao and Yifang Qin (2020) . Seismic Hydrodynamic Pressure on Concrete Bridge Pier with Submerged Depth from a Set of Shaking Table Model Tests. Journal of Physics: Conference Series 1624 (2020) 022019.

Yifang Qin, Xiaxin Tao, Haiming Liu and Zhengru Tao (2020) . Numerical Simulation of Hydrodynamic Pressure on Concrete Bridge Pier in Water from a Series of Model Tests. Journal of Physics: Conference Series 1624 (2020) 022043.

Cao Zelin, Tao Xiaxin (2019) . A kinematic source model for broadband ground motion simulation by FK approach. Bulletin of the Seismological Society of America, 2019, 109(5): 1738-1757.

Xiaxin Tao, Zhengru Tao, Mengya Kang, Guangfen Zheng (2019) . Preliminary seismic vulnerability matrix related with fortification intensity for Sichuan region. Earth and Environment Science, 330 (2018) 022033, doi:10.1088/1755-1315/189/5/022033

Haiming Liu, Xiaxin Tao, Zhengru Tao, Shiwang Zhang (2019) . Importance of seismic hydrodynamic pressure for design of bridge pier in deep water from a numerical case study. 330 (2018) 022032, doi:10.1088/1755-1315/189/5/022032

Yifang Qin, Xiaxin Tao, Zhengru Tao, Haiming Liu(2019). Numerical simulation of hydrodynamic pressure on bridge pier in water for a model test. Earth and Environment Science, 1755-1307 (2019)GMEE669

Haiming Liu1, Xiaxin Tao, Zhengru Tao, Yifang Qin (2019) . Preliminary result of seismic hydrodynamic pressure on bridge pier with submerged depth from a shaking table model test.Earth and Environment Science, 1755-1307 (2019) GMEE668

Tao Xiaxin, Tao Zhengru, Li Dong (2018). Seismic Fortification Intensity Evaluation by a Cost-Benefits Analysis - Case Study of Three Bridges. ICCHE2018

Tao Xiaxin, Tao Zhengru (2018) . Is there any information very important we should learn further from the great Wenchuan earthquake? 4ICCE, Chengdu, China

Tao Xiaxin, Tao Zhengru (2017). The P in PSHA. 16WCEE, ID3244. Santiago, Chile

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