

# Libin Zheng

## Contact Information

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## Professional Summary

2 years experience as Research Assistant in Transportation Engineering. Will receive Master's Degree in Civil Engineering from Old Dominion University in summer 2009. Solid background in GIS-T, transportation safety, transportation operation, intelligent transportation systems, statistical transportation analysis, transportation planning, roadway and bridge design. Proficient in transportation, statistics and web design software. Team spirited with effective communication and presentation skills.

## Experiences

### **Research Assistant** 08/2007- Present

Transportation Research Institute, Old Dominion University, Norfolk, VA

*ITS Decision Enhancements: Developing Case-Based Reasoning Modules for High- Impact Technologies.* Funded by California Center for Innovative Transportation, Berkeley, California. 08/2008-Present

- Developing four case-base reasoning tools for ITS technologies:  
BRT ([http://www.path.berkeley.edu/itsdecisiontools/brttool/brt\\_look.asp](http://www.path.berkeley.edu/itsdecisiontools/brttool/brt_look.asp)),  
Intelligent Parking Systems  
([http://www.path.berkeley.edu/itsdecisiontools/parkingtool/parking\\_look.asp](http://www.path.berkeley.edu/itsdecisiontools/parkingtool/parking_look.asp)),  
Congestion Pricing and Car Sharing;
- Assisting in designing of ITS Decision website and assisting to create an ITS wiki forum

*Hampton Roads Hurricane Evacuation Study.* Funded by Virginia Department of Emergency Management, Virginia Modeling, Analysis and Simulation Center. 12/ 2007-05/2008

- Collected and analyzed the hurricane evacuation surveys from emergency management of Hampton Roads Area
- Assisted in collecting field data, develop before-after models in FREEVAL to analyze the feasibility of the reversal lane during hurricane evacuation and to locate the termini of reversal lanes.

*Primary and Secondary Incident Management.* Funded by Virginia Department of Transportation. 08/2007 - 08/2008

- Assisted in identifying secondary incident pairs
- Analyzed delays associated with secondary incident pairs by using FREEVAL and IMAP.

### **Web Technical Adviser**, 08/2007-Present.

- Designed and maintaining the official website of Transportation Engineering in the Department of Civil & Environmental Engineering at Old Dominion University, <http://eng.odu.edu/transportation/>.

### **Web Technical Adviser**, 08/2008-Present.

- Maintaining one of the largest website for ITS decision making hosted by the California Center for Innovative Transportation at the University of California at Berkeley and Caltrans, <http://www.calccit.org/itsdecision/>.

### **Intern Engineer**, Summer 2005

Design Institute of China No.4 Engineering Co., Ltd, Hefei, Anhui, China

- Assisted in supervision of Qing-yin freeway: responsibilities include creating AutoCAD drawings, organizing materials and work schedule.

#### Education

08/2007 - 08/2009 **Master of Science** in Civil Engineering, Major: Transportation

- Old Dominion University, Norfolk, Virginia;
- Thesis: Using Geographical Weighted Regression (GWR) to Analyze Crash Harm in Hampton Roads Area
- GPA: 3.7/4.

09/2003- 07/2007 **Bachelor of Science** in Civil Engineering

- Hefei University of Technology, Hefei Anhui, China.
- Project: Design of Twin Stayed Bridge with Dual-Cable-Plane in Jiangsu Province.
- GPA: 83/100

#### Professional Skills

##### **Computer Skills:**

- Transportation: HCS+, Synchro, CUBE, VISSIM, TransCAD, AutoCAD, FREEVAL and IMAP
- GIS: ArcGIS
- Statistics: STATA, SPSS and SAS
- Bridge Design: MIDAS
- Web Design: Dreamweaver, Dreamweaver with ASP.NET and Front Page
- Basic: Windows, MS Word, Excel, Access and PowerPoint

##### **Relevant Course Work:**

- Transportation engineering:  
Transportation Operation (I, II), Transportation Planning, Transportation Safety, Intelligent Transportation Systems, Transportation Engineering, Statistical Applications in Transportation Engineering and Application of GIS in Transportation Engineering.
- Roadway and bridge design:  
Roadway Design and Construction, Bridge Design, Computer Aided Highway Geometric Design, Highway Pavement Design, Engineering Surveying, Applied Optimization, Design of Steel Structures, Design of Reinforced Concrete Structures, Construction Management and Site Organization and Environmental Engineering.
- Mechanics:  
Soil Mechanics & Foundation Design, Structural Mechanics, Material Mechanics and Hydraulics.

#### Publications

- Keliang Xia and **Libin Zheng**, "Design of hook erection for plate girder on Qing-yin freeway", *Shandong Transportation Technology*, Vol. 2, 2007. (in Chinese)
- Huiyun Yu and **Libin Zheng**, "Study on design and construction of structural transitions", *Journal of Railway Construction*, Vol. 4, 2006. (in Chinese)

#### Hobbies

- Reading, travelling, volunteering