

# Xian He

Graduate research assistant

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## ACADEMIC QUALIFICATION

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08/2014-present Societal Risk Management, University of Illinois at Urbana-Champaign, USA  
09/2010-06/2014 **Bachelor of Science in Civil Engineering**, Tongji University, Shanghai, China

## ACHIEVEMENTS AND AWARDS

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06/2014 **Cum Laude Graduate of Shanghai Province (top2%)**, Shanghai Municipal Education Committee  
11/2013 **Excellent Civil Engineer Award** (10 in 2000 students), Tongji University  
11/2012 **Social Activities Scholarship (top 5%)**, Tongji University  
03/2012 **Excellent Student of Tongji University (top 2%)**, Tongji University  
12/2011 **First Class Academic Scholarship (top 5%)**, Tongji University  
12/2011 **China Road and Bridge Cooperation Scholarship**, China Road and Bridge Cooperation  
05/2011 **Excellence Award**, 2011 Cardboard Building Competition, Tongji University

## PROFESSIONAL EXPERIENCE

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10/2014-Present **Graduate Research Assistant**, Department of Civil and Environmental Engineering, University of Illinois at Urbana-Champaign

## RESEARCH INTEREST

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- Resilience modeling and analysis.
- Interdependency modeling of critical infrastructures.

## PROJECT EXPERIENCE

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04/2014 **1<sup>st</sup> Prize, 2014 ASCE Mid-Pacific Student Conference and Competition**  
— Organized a team of 25 students in the whole process as the team leader.  
— Cooperated with 47 students to design and build a 6.4 meters long concrete canoe for the Concrete Canoe Competition and won the **2<sup>nd</sup> Prize**, gaining the opportunity to take part in the **2014 ASCE National Concrete Canoe Competition**.  
— Participated in the Transportation Competition, including design, modeling, paper writing, and presentation and won the **2<sup>nd</sup> Prize**.

05/2012 **1<sup>st</sup> Prize, the 7<sup>th</sup> Inter-University Invitational Civil Engineering Competition**, School of Engineering and Technology Infrastructure, Infrastructure University Kuala Lumpur, Malaysia  
— Designed and analyzed a transmission tower using SAP2000.  
— Fabricated the model using wood and glue.

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- 10/2011-10/2013 — Wrote a design report and made a presentation in English.  
**Team Leader**, Design and Fabrication of Space-saving Multifunction Stadium, Shanghai Student Innovation Training Program
- Performed the literature review of mobile fields in stadiums.  
 — Led a team of four to design a multifunction stadium containing mobile fields which can save space and improve the stadium's utilization ratio.  
 — Modeled and analyzed the stadium using Auto CAD, SketchUp and 3D3S.  
 — Fabricated a scale model using ABS plastic.
- 5/2011 **Team Leader**, 2011 Cardboard Building Competition, Tongji University
- Led a team of 13 to design and build a 3.2m tall cardboard building.  
 — Won 7<sup>th</sup> place among 29 teams.

#### INTERNSHIP

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- 06/2013-07/2013 **Xinjiang Urban Construction Co., Ltd and China Construction First Division Group Construction & Development Co., Ltd**
- Worked on construction site with engineers; arranged data.  
 —Became acquainted with basic construction methods and skills.
- 08/2013-09/2013 **Research Institute of Highway Ministry of Transport**
- Worked on the **risk assessment** and **security detection** of highway engineering using China RAP.

#### PUBLICATION

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- 09/2015 Attending the 10<sup>th</sup> International Workshop on Structural Health Monitoring and presenting a paper "Xian He, Hesheng Tang. *Experimental Validation of Structural Damage Identification Using Vibration Transmissibility.*"

#### AFFILIATIONS

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- 09/2012-09/2013 **President, ASCE-Tongji-ISG** (American Society of Civil Engineers - Tongji University - International Student Group)
- Managed a team of 21 in providing field trips, international competitions, exchange activities and lectures for 426 ASCE- ISG student members and social services for communities.  
 — Assisted Tongji University in holding Design & Modeling Competition of Middle School Students from 40 middle schools in 23 provinces in China.
- 09/2012-09/2013 **Vice President, Student Innovation Center**, College of Civil Engineering, Tongji University
- Managed a team of 18 students in providing services in the undergraduate laboratory and student innovation program.  
 — Instructed students in proper use of earthquake simulator, tensile machine, universal testing machine, and laser cutting machine.