

Xiaoyu Hu

Address: 100 Regency Dr. Central, S.C. 29630. Tel: 315-706-7505

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SUMMARY

I am an enthusiastic and motivated graduate student pursuing a Ph.D. in the area of Structural Engineering at Clemson University. I also have a master's degree in Structural Engineering with strong structural analysis skills, ample knowledge about sustainable construction of buildings as well as some knowledge on project management.

Software Skills

ANSYS, Auto CAD, Maple, MASTAN V2.0, Mathcad, Matlab, Microsoft Office, Primavera P6 Management, RISA-3D, SAP 2000, Staad Pro, SureTrak, CHAMPS-BES

EDUCATION AND UNIVERSITY EXPERIENCE

Clemson University (GPA 4.0/4.0)

Ph.D. student in Structural Engineering

Clemson, S.C

08/17/2012 – Present

- Research Assistant
 - Developed and applied remote monitoring technique to obtain the ambient vibration data from the Fort Sumter masonry wall
 - Created web pages using HTML and Javascript for a data posting and monitoring website
 - Communicated and coordinated with Clemson University Facilities Office to collect data from chimney tower for advanced research purpose
 - Proposed a novel damage detection method based on the constitutive relation error
 - Conducted modal test using accelerometers and data acquisition system
- Teaching Assistant
 - Graded homework and exams for Reinforced Concrete Design and Structural Analysis
 - Deliver a range of teaching and assessment activities including tutorials for MATLAB and SAP 2000
 - Contribute to the development of appropriate teaching materials to ensure content meet learning objectives
- Lab Assistant
 - Taught lectures of lab section of the class “Structure Mechanics”
 - Tutored the undergraduate students by holding office hours

Syracuse University (GPA 3.5/4.0)

Master's Degree in Structural Engineering

Syracuse, N.Y

08/30/2009 – 08/30/2011

- Volunteer and Coordinator of New York State Construction Career Days
 - educated youth (11th & 12th grade high school students) about a friendlier and more professional industry that cares about them and their future
 - provided professional advice for students and supervised their hands-on activities like bricklaying, welding, painting and carpentry
 - guided participants on operation of a backhoe, mini-excavators and skid steers

Huazhong University of Science & Tech (GPA 3.2/4.0)

Bachelor's Degree in Civil Engineering

Wuhan, China

09/03/2005 – 06/10/2009

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Graduate Coursework

Advanced Mechanics of Material,	Plastic Design/Steel Structures,	Finite Element Analysis,
Design of Structural Systems,	Design of Concrete Bridges,	Structural Analysis I & II,
Seepage & Earth Dam Design,	Construction Management,	Planning and Scheduling,
Building Materials & Envelope,	Environmental Performance Measures/Buildings	

PUBLICATIONS

- Hu, X., Prabhu, S., Atamturktur, S., & Cogan, S. (2017). Mechanistically-informed damage detection using dynamic measurements: Extended constitutive relation error. *Mechanical Systems and Signal Processing*, 85, 312-328.
 - NCPIT Research Report (2012): Structural Prognosis for the Effective Management of Nation's Cultural Heritage.
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PROFESSTIONAL EXPERIENCE

Nanchang Research Institute of Structures and Construction

Nanchang, Jiangxi, China

Intern

Summer in 2008 and 2009

- Assisted the engineers in the rehabilitation of Buildings in the historical district focus on issues related to environmental sustainability and how to optimize the use of existing assets
 - Provided quality inspection for building material manufacturer
 - Checked the energy-saving measures and analyze conservation savings for new constructed buildings
 - Coordinated and supervised the construction activities of a multistory reinforced concrete building project
 - Attendance of design and site meetings, liaising with clients, contractors and members of the design team
 - Reviewed and modified detailed structural drawings and calculations, making sure deadlines were achieved on a daily basis
 - Created project progress reports for contractors and engineers
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INTEREST

- Classic Guitar; Travel; Learning new technology; Building gadgets; Watching football and basketball;
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AWARDS

- Clemson University Graduate Assistantship
- Awarded Graduate Student Grant by Syracuse University, this covers 50% of tuition costs throughout my Master's program. This was awarded by recognizing my excellent academic achievements