

# Amanda Tyler

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## Education

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### **Master of Science: Civil Engineering, 2010**

**State University**

Emphasis: Structures

Related Coursework: Structural Dynamics, Soil Dynamics, Timber and Masonry Design, Pre-stressed Concrete, Advanced Construction Materials, Advanced Technical Communication

GPA 3.9

### **Bachelor of Science in Civil Engineering, 2009**

**State University**

Emphasis: Structures

Related Coursework: Concrete and Steel Design, Steel Design II, Structural Analysis I and II, Concrete Design II, Project Management, Geotechnical Engineering I and II

GPA 3.5

### **Fundamentals of Engineering Exam, 2007**

## Work Experience

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### **Graduate Research Assistant**

**May 2009–present**

Engineering Department, State University

- Participated in a comprehensive study of how supplementary cement materials (SCMs) can be used to improve the performance of concrete mixtures, with emphasis on ternary mixtures.
- Completed over 50 different concrete mixtures with 20-50% SCM replacement in the laboratory and conducted and documented a variety of tests including: strength development, shrinkage, freeze-thaw durability, rapid ion permeability, scaling, bleeding, and setting time.
- Documented construction practices, placement, and early performance of field projects using ternary SCM blends in Utah, Kansas, and Michigan.

### **Trainer/Server**

**May 2006–present**

The Old Spaghetti Factory

## Activities and Organizations

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- President of American Society of Civil Engineers, student chapter, 2008
- Treasurer of Associated General Contractors, student chapter, 2008
- Event Coordinator of American Concrete Institute, student chapter, 2008–2010
- Member of the Student Advisory Committee, State University, 2007–2008
- Engineering Ambassador for Diversity and Outreach, State University, 2007–2009
- Member of the Concrete Canoe Team, State University, 2007–2009

## Skills

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- Software proficiencies: Microsoft Office, ArcGIS, AutoCAD, SAP2000
- Programming experience: C, Matlab, Visual Basic