

NADIA LUSTIG FRYE
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EDUCATION

Washington State University, Pullman, WA Expected December 2014
Doctor of Philosophy
Focus: Civil Engineering: Structures, Engineering Education
GPA 3.82/4.0

DePauw University, Greencastle, IN December 2009
Bachelor of Arts
Majors: Physics and Pre-Engineering; Minor: French
GPA 3.34/4.0

EXPERIENCE

**Department of Civil and Environmental Engineering, Washington State University
Pullman, WA Summer 2012, Summer 2013, Fall 2013**
Teaching Assistant (Graduate Instructor)
▪ Reinforced Concrete Design

**Department of Civil and Environmental Engineering, Washington State University
Pullman, WA Fall 2010 – Spring 2014**
Research Assistant
▪ Investigated students' beliefs about and understanding of engineering knowledge
▪ Part of writing team on five publications and presenter of five conference presentations for two multi-year, interdisciplinary grants

INTERNSHIPS

NSF REU, Florida International University, Miami, FL Summer 2009
Undergraduate Research Intern
▪ Analyzed data from FCI and CLASS exams using t-tests and histograms
▪ Helped reform the FCI testing process for high schools participating in the Physics Modeling Workshop research

NSF REU, Purdue University, West Lafayette, IN Summer 2008
Undergraduate Research Intern
▪ Organized and built an Atomic and Molecular Optics atom cooling and trapping system in order to build a quantum computer
▪ Completed the groundwork on a 20 year project that will hopefully develop a successful quantum computer

OTHER EXPERIENCE

WSU Environmental Health and Safety, Pullman, WA Spring 2010

PUBLICATIONS

1. Brown, S. A., **Frye, N.**, Montfort, D. B., & Smith, P. M. (2011). Understanding Faculty and Practitioner Involvement in a Capstone Interdisciplinary Design Experience. ASEE Annual Conference 2011 Proceedings, Vancouver, B.C.
2. **Frye, N.**, Montfort, D., Brown, S., & Adesope, O. (2012). I'm absolutely certain that's probably true: Exploring epistemologies of sophomore engineering students. Frontiers in Education Conference 2012 Proceedings, Seattle, WA.
3. Montfort, D., Brown, S., & **Frye, N.** (2012). Work in Progress: Theoretical approach to characterizing changes in students' and engineers' conceptual understanding and personal epistemologies. Frontiers in Education Conference 2012 Proceedings, Seattle, WA.
4. **Frye, N. L.**, Montfort, D., & Brown, S. (2013). Personal Epistemology and Sophomore Civil Engineering Students. ASEE Annual Conference 2013 Proceedings, Atlanta, GA.
5. Brown, S. A., Montfort, D., & **Frye, N. L.** (2013). What is Engineering Knowledge: A Longitudinal Study of Conceptual Change and Epistemology of Engineering Students and Practitioners. ASEE Annual Conference 2013 Proceedings, Atlanta, GA.

PRESENTATIONS

1. "A Model for Faculty, Student, and Practitioner Development in Sustainability Engineering through an Integrated Design Experience" Poster Presentation: NSF Engineering Education Awardees Conference, Reston, VA 2011.
2. "Exploratory Research into Sustainability Education Using Diffusion of Innovations Theory and the Concerns Based Adoption Model" Presentation: FPS Conference, Portland, OR 2011.
3. "Understanding Faculty and Practitioner Involvement in a Capstone Interdisciplinary Design Experience through the Lens of Diffusion of Innovations Theory and the Concerns Based Adoption Model" Presentation: ASEE Conference, Vancouver, B.C. 2011.
4. "A Model for Faculty, Student, and Practitioner Development in Sustainability Engineering through an Integrated Design Experience" Poster Presentation: NSF Engineering Education Awardees Conference, Arlington, VA 2012.
5. "I'm absolutely certain that's probably true: Exploring epistemologies of sophomore engineering students" Presentation: Frontiers in Education Conference, Seattle, WA 2012.

COURSES TAUGHT AT WASHINGTON STATE UNIVERSITY

CE 433: Reinforced Concrete Design

NOTABLE COURSES TAKEN AT WASHINGTON STATE UNIVERSITY

- Reinforced Concrete Design
- Prestressed Concrete and Masonry
- Timber Design
- Advanced Timber Structures
- Advanced Steel Structures
- Earthquake Engineering
- Sustainability Engineering
- Finite Element Analysis

- Advanced Finite Element Analysis
- Advanced Mechanics of Materials

HONORS, ACTIVITIES, AND ASSOCIATIONS

- ASEE Student Member, 2010 – Present
- ACI Student Member, 2013 – Present
- Tau Beta Pi, Washington State University Chapter, 2010 – Present
- DePauw University Dean's List; Fall 08, Spring 09, Fall 09
- Physics Club Social Chair; Fall 08, Spring 09