

## **Arezoo Sadrinezhad, E.I.T**

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### **ACADEMIC BACKGROUND**

**Doctor of Philosophy in Civil Engineering**, University of Akron, OH, August 2014  
Dissertation title: "Multiaxial Probabilistic Elastic-Plastic Constitutive Simulations of Soils"  
Advisors: Dr. Kallol Sett and Dr. S.I. Hariharan

**Master of Science in Civil Engineering**, K.N.Toosi University of Technology, Tehran, Iran, February 2009  
Thesis title: "Evaluation of Seismic Performance of Moment-Resisting Steel Frames (Special, Intermediate and Ordinary) using Incremental Dynamic Analysis".  
Advisor: Dr. Behrouz Asgarain.

**Bachelor of Science in Civil Engineering**, Isfahan University of Technology, Isfahan, Iran, May 2005

### **RESEARCH INTERESTS**

- Probabilistic Simulation in Geotechnical Engineering
- Probabilistic Constitutive Modeling of Soils
- Probabilistic Elasto-Plasticity
- Stochastic Finite Elements
- Nonlinear Structural Analysis and Dynamics
- Seismic Design of Steel Structures
- Steel Moment-Resisting Frames
- Performance Based Design
- Incremental Dynamic Analysis

### **TEACHING EXPERIENCE**

#### **At California State University, Fresno (2014-)**

- CE 20 Engineering Mechanics – Statics
- CE 121 Mechanics of Materials
- CE 121L Mechanics of Materials Laboratory
- CE 123 Soil Engineering
- CE 123L Soils Engineering Laboratory
- CE 134 Foundation Design
- CE 110 Computer Applications in Civil Engineering
- CE 210 Research Seminar for Graduate Students

## **At the University of Akron (2010-2014)**

- 4300 314 Geotechnical Engineering Laboratory
- 4300 202 Intro to Mechanics of Solids

## **PUBLICATIONS**

### **Journal Papers**

1. (2015). Sadrinezhad, A. and Sett, K., “Probabilistic Simulation of Triaxial Cyclic Behavior of Soils”, International Journal for Numerical and Analytical Methods in Geomechanics, (2015), in preparation
2. (2015). Sadrinezhad, A. and Sett, K., “Probabilistic Simulation of Triaxial Constitutive Behavior of Soils”, Comput. Methods Appl. Mech. Engrg, (2015), in review
3. (2010). Asgarian,B., Sadrinezhad,A., Alanjari,P., “Seismic Performance Evaluation of Steel Moment Resisting Frames through Incremental Dynamic Analysis”, (2010) Journal of Constructional Steel Research, 66(2), pp. 178-190.

### **Conference Papers**

1. (2013). Sadrinezhad, A. and Sett, K., “Multiaxial Probabilistic Elastic-Plastic Constitutive Simulations of Soils”, 11th International Conference on Structural Safety & Reliability, Columbia University, New York, NY, June 16-20, 2013.
2. (2010). Sadrinezhad,A., Asgarian,B., Alanjari,P., “Seismic Reliability Assessment of Steel Moment Frames Based on Nonlinear Dynamic Analyses”, 14th European Conference on Earthquake Engineering, Ohrid, Republic of Macedonia, August 30 – September 03, 2010.
3. (2009). Asgarian,B., Sadrinezhad,A., Alanjari,P., “Seismic Response of Moment Resisting Frames through Incremental Dynamic Analysis”, COMPDYN 2009, ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering Rhodes, Greece, 22–24, June 2009.

## **PRESENTATIONS**

### **Oral Presentations**

1. (2015). “Probabilistic Simulation of Triaxial Undrained Cyclic Behavior of Soils”, EMI 2015, Stanford University, CA, June 16-19. (Oral Presentation)
2. (2013). “Multiaxial Probabilistic Elastic-Plastic Constitutive Simulations of Soils”, 11th International Conference on Structural Safety & Reliability, Columbia University, New York, NY, June 16-20. (Oral Presentation)
3. (2013). “Probabilistic Elastic-Plastic Constitutive Simulation of Geomaterials”, Division of Applied Mathematics, Brown University, RI, March 15. (Oral Presentation)
4. (2012). “Soil Uncertainties and Probabilistic Cam Clay Response”, EMI/PMC 2012, Notre Dame University, IN, June 17-20. (Oral Presentation)

5. (2011). “Triaxial Probabilistic Elastic-Plastic Constitutive Simulation of Geomaterials”, 11th U.S. National Congress on Computational Mechanics, Minneapolis, MN, July 25-28.

### **Poster Presentation**

1. (2011). “Triaxial Probabilistic Elastic-Plastic Simulation of Geomaterials”, 11th U.S. National Congress on Computational Mechanics, Minneapolis, MN, July 25-28.

### **INDUSTRY AND CONSULTING EXPERIENCE**

- February 2010 – July 2010, Civil/Geotechnical Engineer, Talash-e-Naghshe Jahan Consulting engineers, Isfahan, Iran
- October 2008 – August 2009, Structural /Earthquake Engineer, Aria Sazeh Arg (Consulting engineering company), Tehran, Iran

### **PROFESSIONAL SERVICES**

#### **University Services**

##### **Department, College, and University Committees**

- Scholarships Ad-Hoc Committee, Lyles College of Engineering, California State University, Fresno, Fall 2014

### **TECHNICAL MEETINGS**

- (2013). 11th International Conference on Structural Safety & Reliability, Columbia University, New York, NY, June 16-20, 2013
- (2012). (EMI/PMC) Joint Conference of the Engineering Mechanics Institute and 11th ASCE Joint Specialty Conference on Probabilistic Mechanics and Structural Reliability, University of Notre Dame, IN, June 17-20
- (2011). Eleventh U.S. National Congress on Computational Mechanics, Minneapolis, MN, July 25-29

### **PROFESSIONAL QUALIFICATION AND AFFILIATIONS**

- Engineer-In-Training (EIT) in the State of Michigan
- Member, American Society of Civil Engineers (ASCE)
- Member, Geo-Institute, American Society of Civil Engineers (ASCE)
- Member, Society of Women Engineering (SWE)

### **ACADEMIC APPOINTMENTS**

- August 2014-. Assistant Professor, Department of Civil and Geomatics Engineering, at California State University at Fresno, Fresno, CA
- August 2010-August 2014. Research/Teaching Assistant, Department of Civil and Environmental Engineering, University of Akron, Akron, OH