

SNEHA UPADHYAYA

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Professional Objective: To obtain an academic position and contribute to research in the field of geotechnical earthquake engineering.

Education:

- 1. PhD in Civil Engineering** (Expected Graduation: May 2019)
Concentration: Geotechnical Engineering
Virginia Polytechnic Institute and State University, Blacksburg, Virginia
- 2. Master of Science in Civil Engineering** (May 2015)
Concentration: Geotechnical Engineering
GPA: 4.0/4.0
California State University, Fullerton, California
- 3. Bachelors of Engineering in Civil Engineering** (December 2012)
GPA: 3.95/4.0
Tribhuvan University, Institute of Engineering, Nepal

Employment:

- 1. Graduate Research Assistant** (August 2015-Present)
Virginia Polytechnic Institute and State University, Blacksburg, Virginia
 - Involved with developing methodologies for evaluating liquefaction triggering and damage potential
- 2. Instructor** (August 2014-May 2015)
California State University, Fullerton, California
 - Taught undergraduate Soil Mechanics Laboratory and undergraduate Engineering Surveying Laboratory class
- 3. Graduate Research Assistant** (January 2013 – May 2015)
California State University, Fullerton, California
 - Research Project: NEESR: Reduction of Seismic Shaking Intensity on Soft Soil Sites Using Stiff Ground Reinforcement (NSF funded)
 - Involved with soil characterization and shake table model testing
- 4. Instructor for Engineering Day** (June, July 2014)
California State University, Fullerton
 - Instructor for Engineering section for Brazilian Study Vacation Program
 - Taught high school students to design miniature Mechanically Stabilized Earth (MSE) retaining walls and organized model testing

Awards/Achievements:

- Recipient of Pratt Fellowship awarded by the College of Engineering at Virginia Tech (August 2015-Present)
- Recipient of 2014-2015 Dwight David Eisenhower Transportation Fellowship (August 2014- May 2015)
- 2nd place winner in oral presentation category for Masters/PhD students at 25th Science Conference organized by Orange County Graduate Women in Science Sigma Chapter (April 2014)
- ASCE Geo-Institute Los Angeles Chapter Outstanding Graduate Student of the Year (April 2014)

5. Outstanding Graduate Student of the Year-Research at California State University, Fullerton (CSUF) (April 2014)
6. Top 6 Finalist and awarded \$500 travel grant for National Geo-Poster Competition at GeoCongress 2014 organized by ASCE Geo-Institute (February 2014)
7. Finalist for the National Geo-Poster Competition at GeoCongress 2013 organized by ASCE Geo-Institute (March 2013)
8. "Nepal Chatra Bidhya Padak", a Presidential Education Award for Female Students for receiving highest grade among girls in high school education in Nepal (August 2009)

Activities:

1. Oral and Poster Presentation at the annual CGPR meeting at Virginia Tech (March 2016)
2. Volunteer at Pacific District Conference (PDC) organized by Chi Epsilon (November 2014)
3. Conference Secretary, International Symposium on Geo-Disaster Reduction (ICGdR-12) (September 2014)
4. Secretary, CalGeo/GIGSO CSUF Chapter (May 2013 – May 2015)
5. Volunteer at 2014 Spring Seminar organized by ASCE Geo-Institute Los Angeles Chapter (April 2014)
6. Panel presentation at Phi Beta Delta Induction Ceremony (April 2014)
7. CSUF Student Research Day Poster Presentation (April 2014)
8. 2014 CSUF Research Competition Participant (February 2014)
9. Interactive Research Poster Presentation at GeoCongress 2014 (February 2014)
10. Volunteer at 2013 Spring Seminar organized by ASCE Geo-Institute Los Angeles Chapter (April 2013)
11. CSUF Research Week Poster Presentation (March 2013)
12. 2013 CSUF Research Competition Participant (March 2013)

Publications:

1. **Upadhyaya, S.**, Tiwari, B., Olgun, G. (2016). "Static and Dynamic Properties of Compacted Soil-Cement Mixtures", *Proceedings of Geotechnical and Structural Engineering Congress 2016*, 1646-1654.
2. Keaton, J.R., Ajmera, B., **Upadhyaya, S.**, Tiwari, B., Turner, B., Kwak, D.Y., and Brandenberg, S.J. (2015). "December 2014 Storm Damage Below Recently Burned Slopes, Los Angeles, Orange, and Ventura Counties, California", GEER Association Report No. GEER-042.
3. Tiwari, B., and **Upadhyaya, S.** (2014). "Influence of Antecedent Rainfall on Stability of Slopes", *Geotechnical Special Publication*, 234, 3243-3251.
4. Tiwari, B., and **Upadhyaya, S.** (2014). "Effect of Rainfall and Building Construction on a Marginal Slope in Triggering Landslide", *Landslide Science for a Safer Geoenvironment*, 3, 313-318.
5. **Upadhyaya, S.**, Tiwari, B., Fanaiyan, S. (2014). "Ground Motion Improvement on Loose Sand by the Use of Soil-Cement Panels", *Proceedings of the 12th International Symposium on Geo-disaster Reduction*, 1, 240-245.
6. **Upadhyaya, S.**, Tiwari, B., San Pablo, A., Melgar, K., Pandey, P., and Olgun, G. (2014). "Reduction in Seismic Shaking Intensity of Soft Soil Sites Using Soil-Cement Panels as Stiff Ground Reinforcement", *Proceedings of the 12th International Symposium on Geo-disaster Reduction*, 1, 246-252 (**Awarded: Second best student presentation**).
7. Tiwari, B., and **Upadhyaya, S.** (2013). "Improvement of Seismic Ground Shaking using Soil Reinforcement Panel", *In Proceeding of Second Joint Annual Conference of the American Society of Nepalese Engineers and Computer Association of Nepal, USA*.

Computer Skills:

1. Proficient with Microsoft Office applications
2. Proficient with RocScience (Slide and Phase2)
3. Familiar with QBasic, Visual Basic, AutoCAD, Sigmaplot
4. Intermediate user of MATLAB, R, SAP 2000, GIS

Memberships:

1. Student Member, American Society of Civil Engineers (ASCE)
2. Member, Geo-Institute Graduate Student Organization (GIGSO)
3. Member, California Geotechnical Engineering Association (CalGeo)
4. Member, Deep Foundations Institute (DFI)
5. Member, Chi Epsilon Civil Engineering Honor Society (XE)