

Education

- **Middle East Technical University**, Ankara, Turkey
 - Ph.D. in Geotechnical Engineering 2016
 - English Curriculum TOEFL (IBT) (2010): 89
 - Dissertation: Hydro-Mechanical Behavior of Unsaturated Specimens Isotropically Reconstituted from Slurry and Compacted Specimens.
- **IAU**, Iran
 - M.Sc. in Geotechnical Engineering 2008
 - B.S. in Civil Engineering 2006

Publications

Journal

- **Ahmadi-Naghadeh, R.**, Toker, N. K., *Volume Change Measurement in Triaxial Tests by Monitoring Cell Fluid Volume Based on Viscoelastic Behavior of the Test Setup*, Geotechnical Testing Journal, Vol. 40, No. 4, 2017, pp. 1–15, <http://dx.doi.org/10.1520/GTJ20160093>. ISSN 0149-6115.
Ahmadi-Naghadeh, R., Toker, N. K. and Ahmadi-Adli, M., *Water content controlled instead of suction controlled tests*. Life Science Journal, 10, (2013), p.2023-2030.

Conference Proceedings

- **Ahmadi-Naghadeh, R.** and Toker, N. K., *Volume change measurement in triaxial testing of unsaturated soils*. 3rd International Conference on New Developments in Soil Mechanics and Geotechnical Engineering, 2012, Cyprus.
- **Ahmadi-Naghadeh, R.**, Toker, N. K. and Ahmadi-Adli, M., *Water content variability of unsaturated soil specimens in conventional strength tests*. 10th International Congress on Advances in Civil Engineering, 2012, Ankara, Turkey.
- Maghsoudloo, A., **Ahmadi-Naghadeh, R.**, Toker, N.K., *Numerical comparison of retaining system behavior for a deep excavation case with and without ground improvement*, International Conference on Ground Improvement and Ground Control (ICGI 2012), 30 Oct.- 2 Nov. 2012, University of Wollongong, Wollongong , Australia.
- **Ahmadi-Naghadeh, R.**, *Numerical analyze of Geotextile-Encased sand/gravel Columns*, 1st international conference of civil engineering, University of Semnan, IRAN, July 14, 2008, (In Persian).

- **Ahmadi-Naghadeh, R.**, *Numerical analyze of pipe roof method in reduce of ground settlement*, 1st international conference of civil engineering, University of Semnan, IRAN, July 14, 2008, (In Persian).
- **Ahmadi-Naghadeh, R.**, *Numerical analyze of jet grouting slab for deep excavation in soft soil*, 1st international conference of civil engineering, University of Semnan, IRAN, July 14, 2008, (In Persian).
- Toker, N.K, Ozlu, P., Maghsoudloo, A., **Ahmadi Naghadeh, R.**, *Metro tünellerinin yanında ankrajlı derin kazı iksası tasarımı. "Prof.İsmet Ordemir i Anma Toplantısı ve 6. ODTÜ Geoteknik Mühendisliği Sempozyumu"*, (2011), s.1-20., Ankara, Turkey.

Research Experience

Research Assistant (Ph.D. Research)

Projects

- Modifying the conventional triaxial setup to perform unsaturated soils tests (Matric suction control; volume changes measurement), 2013-2014, (No.: BAP-07-02-2012-101-120,).
 - Development of novel volume-change measurement technique in triaxial testing of unsaturated soil by monitoring cell fluid volume based on viscoelastic behavior of the test setup.
 - Design and development of the triaxial base to apply and control matric suction.
 - Design and development of a diffused air volume indicator (DAVI) system.
 - Developed a new procedure for preparation of specimens that are isotropically reconstituted from the slurry to be used in both saturated and unsaturated soil testing.
- Coupled hydro-mechanical behavior of unsaturated soils prepared from slurry, 2014-2015, (No.: BAP-07-02-2014-007-138).
 - Performed a comprehensive laboratory-based study on both saturated and unsaturated compacted and reconstituted specimens from slurry with drying-wetting cycles.
 - Proposed an exponential equation to predict shear strength of unsaturated soils.

Honors and Awards

- Graduate fellowship, The Scientific and Technological Research Council of Turkey (Tubitak), 2010-2014.
- Full grant for summer school participation,
 - Unsaturated Soil Mechanics: From Fundamentals to Applications, Barcelona, Spain, 2015.
- Aff. Member, American Society of Civil Engineers (ASCE), Geotechnical Engineering Institute.
- Young Researchers and Elite Club, (2008-2010),
 - Three travel grant for attending national conferences.

Teaching Experience

Istanbul Aydin University

- Soil mechanics 1
- Soil mechanics 2
- Foundation Engineering
- Ground Improvement
- Geotechnical design
- Advanced soil mechanics

Middle East Technical University

- Teaching assistant of CE 7009, Geotechnical laboratory techniques,
- Teaching assistant of laboratory session of CE363, CE364 (undergraduate soil mechanics)

Laboratory Experience

All commonly practiced soil testing methods, Triaxial testing of saturated and unsaturated soil (along with axis translation and volume change measurement), Permeability tests, high-capacity tensiometer, computer-automated data acquisition systems and calibration, equipment modification and design, measurement of soil moisture characteristic curves.

Working Experience

- Geotechnical Engineer, SONAR Drilling, Turkey, 2016.
 - Tender Works involving preliminary design and evaluation of suitable methodology.
 - Geotechnical evaluation of soil reports and design of suitable deep foundation, ground improvement, and retaining systems.
- Project assistant, Kirikkale Independent Power Plant Project, Turkey, 2015.
 - Numerical simulation for cooling tower foundation using finite element software PLAXIS 2D
 - Soil mechanics laboratory tests
 - Assisting in preparing Geotechnical report
- Project Engineer/Navrood Company/Asaluyeh-Iran 2009 – 2010
 - Construction of Main Pipe-rack Area, Phases 17 & 18 South Pars Gas
 - Design, planning, implementing and managing concrete batching plant
- Project Engineer/Goupleh Company/ Tehran-Iran 2008 – 2009
 - Road construction
 - Document preparation for tenders and Cost Estimation of the projects

Computer Skills

- Engineering software:
 - GeoStudio
 - Slide (Rocscience)
 - PLAXIS 2D
 - Phase2
- Programming software:
 - MATLAB
 - Python (Elementary)