



Curriculum Vitae of

Mohsen Seyedi

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Bağcılar/İstanbul.

EDUCATION

- 2004-2008 B.Sc. Civil Engineering
Department of Civil Engineering, University of Mohagheh Ardabili, Iran.
- 2010-2012 M.Sc. Earthquake Engineering
Department of Civil Engineering, University of Mohagheh Ardabili, Iran.
Thesis: An evaluation of inelastic response spectra based on 2DOF modal systems for tallasymmetric-plan buildings.
Advisor: Assoc. Prof. Dr. Kazem Shakeri
- 2014-2021 Ph.D. Earthquake Engineering
Institute of Disaster Management, Istanbul Technical University, Turkey.
Thesis: Dynamic Response of Partially Saturated Sands Under Foundations.
Advisor: Assoc. Prof. Dr. Ece Eseller-Bayat

ACADEMIC AND WORK EXPERIENCE

- Sep 2012- Sep 2014 Lecturer (University of Moghadas Ardabili-Iran)
- July 2013- Sep 2014 Construction Engineer (Ardabil Construction Engineering Organization)
- Sept 2015- Sept 2018 Research Assistant (Faculty of Civil Eng. Div. Geotechnical Eng. İTÜ)
- Jan 2018- Aug 2021 Lecturer (Faculty of Civil Eng. Altınbaş University)
- Dec 2021- Present Assist. Prof. Dr. (Faculty of Civil Eng. Altınbaş University)

RESEARCH INTERESTS

- Soil-Structure Interaction
- Numerical Modeling of Geotechnical Engineering Problems
- Liquefaction Mitigation Techniques

HONORS & AWARDS

- Awarded Full-Scholarship for the whole B.Sc. Courses, University of Mohagheh Ardabili (2004 – 2008).
- Awarded Full-Scholarship for the whole M.Sc. Courses, University of Mohagheh Ardabili (2010 – 2012).
- TÜBİTAK scholarship, No. 213M367, Funded by The Scientific and Technological Research Council of Turkey (September 2015- July 2017).
- Short-Term Student Exchange Grant for Studying in Japan offered by Tokyo Institute of Technology (July 2017- September 2017).
- The Most Successful Doctoral Thesis Award, Istanbul Technical University, 2021.

OUTCOMES-PRODUCTS OF RESEARCH

Journal Publications:

- **Seyedi-Viand, S.M.**, Eseller-Bayat, E.E. “An alternative empirical function to predict air-water mixture bulk modulus for numerical modeling of liquefaction behavior of induced partially saturated sands”. *Bulletin of Earthquake Eng.* 19, 1987–2011 (2021). **DOI: <https://doi.org/10.1007/s10518-021-01058-4>**.
- **Seyedi-Viand, S.M.**, Eseller-Bayat, E.E. “Partial Saturation as a Liquefaction Countermeasure: A Review”. *Geotech Geol Eng.* 40, 499–530 (2021). **DOI: <https://doi.org/10.1007/s10706-021-01926-5>**.
- **Seyed Mohsen Seyedi Viand**, Kazem Shakeri, Hossein Vakili and Mehrdad Azadi Hir. “An assessment of a modal pushover method based on 2DOF modal system for tall asymmetric-plan buildings”, *Journal of Civil Engineering and Urbanism*, Vol.3: No.4, pages 216-220, July 2013.
- Hossein Vakili, Kazem Shakeri, **Seyed Mohsen Seyedi Viand** and Mehrdad Azadi Hir. “An investigation of efficiency and accuracy of energy-based capacity spectrum in estimating the seismic demands of buildings”, *Journal of Civil Engineering and Urbanism*. Vol.3: No.5, pages 251-259, September 2013.

Conference Papers:

- Bilal Ozaslan, Umit Karadogan, **Seyed Mohsen Seyedi Viand**, Evrim Guley, Maryam Massahfard, Leila Mokhberioskouei and Ayfer Erken. “DYNAMIC SOIL BEHAVIOR AROUND TUNNELS UNDER EARTHQUAKE EXCITATION”, *International Symposium on Natural Hazard and Hazard Management*, 2-4 March 2016, Karabuk-Turkey. (In Turkish Language)
- E. E. Eseller-Bayat, Ataollah Nateghi, **Seyed Mohsen Seyedi Viand** and Navid Jadidoleslam. “Numerical modelling of liquefaction tests of fully saturated sands in CSSLB”, 4th *International Conference on New Developments in Soil Mechanics and Geotechnical Engineering*, 2-4 June 2016, Near East University, Nicosia, North Cyprus.
- **Seyed Mohsen Seyedi Viand**, E. E. Eseller-Bayat. “Numerical modelling of liquefaction tests of partially saturated sands in CSSLB”, *International Workshop on Advances in Laboratory Testing & Modelling of Soils and Shales*, 18-20 January 2017, Villars – sur – Ollon, Switzerland. **DOI: [10.1007/978-3-319-52773-4](https://doi.org/10.1007/978-3-319-52773-4)**

PROFESSIONAL MEMBERSHIPS

Iranian Organization for Engineering Order of Building.

COURSES TAUGHT

Undergraduate: Soil Mechanics, Foundation Engineering, Engineering Mechanics, Strength of Materials

Graduate: Soil Dynamics

LANGUAGE PROFICIENCY

- Azeri: Native
- Turkish: Fluent
- Persian: Fluent
- English: Fluent

COMPUTER SKILLS

- MS-Word / Excel / PowerPoint
- SAP2000 / ETABS / SAFE
- PLAXIS2D
- FLAC (2D-3D)
- DEEPSOIL (1-D ground response analysis software)