

**Personal Information:**

Name: Javad Jalili

Affiliation: Assistant professor at Geotechnical research center

Date of Birth: November, 1978

Date of attendance: October, 2014

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**Education**

- Ph. D. in Geotechnical Earthquake Engineering

International Institute of Earthquake Engineering and Seismology, Tehran, Iran, 2006-2011

Dissertation title: *"An Investigation on Heterogeneous Pore Water Pressure Distribution in Clay Aggregate Mixtures"*

- Master of Science in Soil Mechanics and Foundation Engineering

Shiraz University, Shiraz, Iran, 2004-2006

Dissertation Title: *"Investigation of Construction Methods of Wet Core Earth Dams in North of Iran"*

- Bachelor of Science in Civil Engineering

Amirkabir University of Technology, Tehran, Iran, 2000-2004

**Research Interests**

- Geotechnical Laboratory Testing
- Numerical Analysis in Geotechnical Earthquake Engineering
- Behavior of saturated or unsaturated mixed soils
- Seismic stability of deep excavations
- Site effects

**Advising:**

- Supervisor of 4 M.Sc. theses
- Co-supervisor of 3 M. Sc. theses
- Advisor of 4 M.Sc. theses and 1 Ph.D. thesis

**Research Reports**

1 published and 3 fulfilled research reports

**Professional Experiences:**

(Cooperated projects)

- Writing a user-friendly code to analyze the raw data attained by the Cyclic Triaxial Apparatus of Geotechnical laboratory of International Institute of Earthquake Engineering and Seismology
- Writing a user-friendly code to analyze the raw data attained by the Resonant Column Apparatus of Geotechnical laboratory of International Institute of Earthquake Engineering and Seismology
- Seismic Geotechnical Hazard Zonation of Imam Reza's Holy Shrine Site, Mashhad, Iran
- Seismic Geotechnical Hazard Zonation of Southern Pars, Iran
- Seismic Geotechnical Hazard Zonation of Qeshm & Dargahan, Iran
- Seismic Hazard Analysis of Kave harbor, Iran
- Seismic Hazard Analysis of Mashhad Mall, Iran
- Seismic Hazard Analysis of Koohsangi Project, Mashhad, Iran
- Seismic Geotechnical Hazard Zonation of Karaj City, Iran
- Deep-Site Effects Study of Karaj leading to Design Spectra of the city
- 3D Slope Stability Analysis of Nahjolbalaghe Park in Tehran, Iran
- Stability and seepage analysis of Sangabad and Niakhoram embankment dams, located at Ardebil province of Iran
- Site effect analysis, in Geotechnical Hazard Zonation of Karaj, Iran
- 2D and 3D analysis and design of a 38 m deep excavation in north of Tehran (Kaashef-Ghods Tower)
- Analysis and design of a 25 m deep excavation in Mashhad (Jahan Mall)
- Analysis and design of a 15 m deep excavation in Tehran (Baghershahr)
- Supervision of 25 m deep excavation in Mashhad (Museum of the holy shrine)
- Analysis of Site effects on Iran National Radioactive Drugs Center
- Analysis of Site effects on sewage line of Tehran in western districts

**Teaching Experiences:**

Soil Dynamics (M. Sc.)

Embankment Dams (M. Sc.)

Advanced Foundation Engineering (M. Sc.)

Advanced Soil Mechanics (M. Sc.)

Advanced Soil Modelling (Ph. D.)

**Publications and Presentations****Journal papers:**

- Jalili, J., Jahanandish, M. (2009). "Investigation of Construction Method of a Wet Core Earth Dam in North of Iran." Iranian Journal of Science and Technology, Transaction B-Engineering, Vol. 33, No. B4, 347-353.
- Jalili, J., Jahanandish, M. (2010). "Investigation of Compaction Methods of Embankment Cores in High Rainfall Regions." Dam Engineering, Vol. XX, Issue 4, 329-344.
- Jalili, J., Jafari, M. K., Shafiee, A., Koseki, J., Sato, T. (2011). "An investigation on effect of inclusions on heterogeneity of stress, excess pore pressure and strain distribution in composite soils." International Journal of Civil Engineering, Volume 10, No. 2, pp:124-138.
- Jalili, J., Jafari, M. K., Shafiee, A. (2012). "Measuring pore water pressure variation inside saturated triaxial specimens of low-plastic composite clay under strain-controlled cyclic loading." Journal of Seismology and Earthquake Engineering, Volume 14, No.4, PP: 263-270.
- Jalili, J., Hosseini, S. E. (2018). "Numerical Study on the Pattern of Stress and Excess Pore Water Pressure distribution in the Core of Alborz Earth Dam due to Seismic Loading." Research bulletin of Seismology and Earthquake Engineering, Accepted, waiting to be published. (in Persian).
- Jalili, J., Safari, S. (2018) "Investigation on Effect of Cyclic Confining Pressure on Excess Pore Water Pressure Variation inside Clay-Aggregate Mixtures." Bulletin of Earthquake Science and Engineering, 5 (4), PP: 71-81.
- Jalili, J., Moosavi, M. (2019). "Evaluation of the Truncated Soldier Pile Behavior in an Anchored Deep Excavation Case Study by the Aid of 3D and 2D Finite Element Analysis", Journal of GeoEngineering, Accepted, waiting to be published.

#### **Conference Presentations:**

- Ghanooni Mahabadi, S., Jahanandish, M., Jalili, J. (2005). "Investigation of Construction Methods of Wet Core Earth Dams in Wet Climates." 73rd Annual Meeting of ICOLD, Tehran, Paper No.: 111-S5.
- Jalili, J., Jafari, M. K., Shafiee, A. (2011). "An investigation on effect of inclusions on excess pore water pressure distribution in low-plastic composite clay." Sixth International Conference of Seismology and Earthquake Engineering, Tehran.
- Jalili, J., Jafari, M.K., Shafiee, A. (2011). "An experimental investigation on effect of inclusions on excess pore water pressure distribution in composite clay", Pan-Am CGS Geotechnical Conference, Toronto, Canada.
- Jalili, J., Jafari, M.K., Shafiee, A. (2012). "Inclusion effect on heterogeneity excess pore water pressure distribution in composite clay", 15th World Conference on Earthquake Engineering, Lisbon, Portugal
- Jalili, J., Jafari, M.K. (2016). "Probing Excess Pore Water Pressure Distribution in Composite Clay Soil under Cyclic Loading", 5th International Conference on Geotechnical Engineering and Soil Mechanics, Tehran, Iran.
- Jalili, J., Darvishi, M.M. (2016). "A Precise Calibration Method for Torsional Resonant-Column Apparatus", 5th International Conference on Geotechnical Engineering and Soil Mechanics, Tehran, Iran.

#### **Professional Associations:**

- **Iranian Geotechnical Society (since 2012)**
- **International Society for Soil Mechanics and Geotechnical Engineering (since 2012)**
- **Tehran Construction Engineering Organization (since 2013)**