

Curriculum Vitae



Personal Information:

Mohammad Norouz Olyaei

Assistant Prof. of Civil Eng. (Geotechnics)

Address: Office 6-609, Civil Eng. Dep., Tarbiat Modares University, Tehran

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Education:

PhD:

Civil Eng. (Geotechnics), Sharif University of Technology, 2007, GPA: 17.6/20, 1st Rank.

MSc:

Civil Eng. (Geotechnics), Tarbiat Modares University, 2000, GPA: 18.4/20, 1st Rank.

Awarded by Iran Prime Minister (Dr. Habibi).



BSc:

Civil Eng., Isfahan University of Technology, 1998, GPA: 15.7/20, Ranked Top 10%.

Diploma:

Mathematics-Physics., Imam High School, 1994, GPA: 19.3/20, 3rd Rank in Isfahan Province, 1st Rank in Natanz City.

Academic Courses:

Tarbiat Modares University (Since 2008)

PhD:

Advanced Numerical Methods in Geomechanics

Advanced Soil Mechanics II

MSc:

Finite Element Method

Advanced Soil Mechanics

Marine Geotechnics

Advanced Engineering Mathematics

Sharif University of Technology (2001-2005)

BSc:

*Soil Mechanics Laboratory
Foundation Engineering (T.A.)
Soil Mechanics (T.A.)*

Research interests:

PhD Supervisor:

*1-Heisam Heidarzadeh (New Generalized Constitutive Model- Prediction of Soil Monotonic and Cyclic Behavior)
2-Erfan Karimian (Coupled Modeling of Frictional Penetration-SFEM)*

PhD Advisor:

1-Omid Naeimifar (Clayey Sand Behavior-Undrained Conditions)

MSc Supervisor:

*1-Ehsan Manafi (Tunnel-DEM)
2-Mohammad Heidarpour (Oil Contaminant Propagation-Remediation)
3-Milad Soury (Tunnels under Ground Water Table)
4-S Mohammad Amin Ghotbi (Large Diameter Pile-Liquefaction)
5-Saeid Kouzegaran (Road Embankment & Foundation Bed-Geocell)
6-MirEbad Hoseini (NanoClay-Clayey Sand)
7-Narjes Hesbirad (Pile-Lateral Load)
8-Behnam Norouzi (Excavation-Meshless)
9-Saman Mansouri (Pile Raft-Deep Mixing)
10-Arash Saeidi (Slope-Anchorage)
11-Sajjad Najmaei (Oil Well- HM Analysis)
12-Amir Reza Behzadian (Excavation-Nail Bond Resistance)
13-Hamid Reza Jafari (Excavation under Ground Water Table-Diaphragm Wall)
14-S. Mahdi Ghazi MirSaeid (Oil Well-THM Analysis)
15-Amir Hosein Sorourifar (Stone Column-Encased Geosynthetics)*

MSc Advisor:

*1-Komail Khakpour (Liquefaction-Pile)
2-Zohreh Khalili (Numerical Modelling-Sand Triaxial Test)
3-Mohammad Mirzapour (Rock Slope-DEM)
4-Emad Zolghadr (Excavation-Nailing)
5-Reza Sadeghzadegan (Soil Reinforcement-Seismic Performance)
6-Asieh Naeimi (Excavation-Nailing)
7-Sina Taymourzadegan (Excavation-Tunnel)*

Other activities:

Sabbatical in Cambridge University (2005-2006) supported by the scholarship from Iranian Ministry of Science, Research and Technology; Cambridge University; British Council (SHELL).

Presentation of Plaxis Software in Channel 4 of IRIB TV (2003).

Receiving of Gold Honor Medal of Young Elite in Natanz City (2009).

PhD Thesis: Coupled Numerical Modelling of Hydraulic Fracture in Saturated Soil and Rock using EFG-Meshless Method, Sharif University of Technology, 2007.

MSc Thesis: Development of a DEM Computer Code for Analysis of Discontinuum Media, Tarbiat Modares University, 2000.

Books:

M. Oliaei, M. Sasani, K. Khakpour, Foundation Engineering, F.I. Publications, 2012.

M. Oliaei, K. Khakpour, M. Sasani, S. Mamani, Soil Mechanics, F.I. Publications, 2012.

S. Sh. Yasrebi, M. Oliaei, S. Tabarsaz, E. Zolghadr, H. Momeni, Modern Excavation, F.I. Publications, 2017.

International Journal Papers:

1. **Oliaei, M.** and Pak, A., (2009), Element Free Galerkin mesh-less method for fully coupled analysis of consolidation process, *Scientia Iranica: International Journal of Science and Technology*, 16, 65-77.
2. **Oliaei, M.**, Soga, K. and Pak, A., (2009), Some numerical issues using Element Free Galerkin mesh-less method for coupled hydro-mechanical problems, *Int. J. Num. Ana. Meth. Geomech.*, 33, 915-938 (**Special Accept**).
3. Asgari, A., **Oliaei, M.** and Bagheri, M., (2013), Numerical simulation of improvement of a liquefiable soil layer using stone column and pile-pinning techniques, *Soil Dynamics and Earthquake Engineering*, 51, 77-96 (**Hot Paper**).
4. **Oliaei, M.**, Pak, A. and Soga, K., (2014), A coupled hydro-mechanical analysis for prediction of hydraulic fracture propagation in saturated porous media using EFG mesh-less method, *Computers and Geotechnics*, 55, 254-266 (**Hot Paper**).
5. **Oliaei, M.** and Manafi, E., (2015), Static Analysis of Interaction between Twin-Tunnels using Discrete Element Method (DEM), *Scientia Iranica: International Journal of Science and Technology*, 22, 1964-1971.
6. **Oliaei, M.** and Alitalesh, M., (2015), Ground Motion Amplification due to Underground Cavities Subjected to Incident SV and P In-Plane Waves, *Scientia Iranica: International Journal of Science and Technology*, 22, 1703-1711.
7. **Oliaei, M.** and Heidarpour, M., (2015), Oil contamination propagation patterns in soils and efficiency evaluation of pumping in-situ remediation method, *Iranian Journal of Science and Technology, Trans. Civil Eng.*, 39, 379-384.
8. Zolqadr, E., Yasrobi, Sh. and **Oliaei, M.**, (2016), Analysis of soil nail walls performance - Case study, *Geomechanics and Geoengineering: An International Journal*, 11, 1-12.
9. Heidarzadeh, H., **Oliaei, M.** and Latifi, M., (2016), Applying an Appropriate Cap in an Elastoplastic Model with Open Bounding and Yield Surfaces at High Pressures, *Indian Journal of Science and Technology*, 9, 1-7.
10. **Oliaei, M.** and Kouzegaran, S., (2017), Efficiency of cellular geosynthetics for foundation reinforcement, *Geotextiles and Geomembranes*, 45, 11-12.
11. **Oliaei, M.** and Ghotbi, S.M.A., (2017), Dynamic behavior of large-diameter piles considering liquefaction under clay layer, *Scientia Iranica: International Journal of Science and Technology*, 24, 2665-2683.

Iranian Journal Papers:

Oliaei et al.: 14 published papers in Iranian journals of science and technology.

International Conference Papers:

1. Ghotbi, A., **Oliaei, M.**, Yasrebi, Sh. and Mosallanejad, M., Dynamic soil-pile behavior in liquefiable sand overlaid with soft clay, *18th Int. Con. on Soil Mechanics and Geotechnical Engineering*, Sep. 2013, Paris.
2. **Oliaei, M.**, Kouzegaran, S. and Behzadian, A.R., A Real Approach for Numerical Analysis of the Road Embankments Reinforced by Geocell, *6th European Geosynthetics Congress*, Sep. 2016, Ljubljana.
3. **Oliaei, M.**, Ghazi Mirsaeed, S.M. and Torkaman, M., The effects of temperature on oil wellbore stability in rocks using coupled THM numerical simulation, *6th Int. Con. on Coupled THMC Processes in Geosystems*, Jul. 2017, Paris.

Iranian Conference Papers:

Oliaei et al.: 27 published papers in International/National Iranian conferences.

Research Projects:

Oliaei et al.: 3 finalized research projects.

Professional Experience:

Project Manager, P.O.R Consulting Engineers Co., 2007-2014

Chief Engineer, Moshanir Consulting Engineers Co., 2002-2007

Professional Membership:

Member, Organization for Engineering Order of Building-Tehran

Member, Iranian Geotechnical Society (IGS)