

Dr. Assoc. Prof. Mahmoud Fawzy Awad-Allah

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Summary

I have substantial practical and academic experiences in Egypt, Japan and many other countries having been involved in various projects, research projects, and academic education for undergraduate and postgraduate (Supervisor on two thesis) students.

Moreover, I have more than 15 years of experience in a wide range of geotechnical engineering fields and consultancy works in many mega and heavy civil engineering projects carried out in Egypt and abroad, e.g., quay walls structures, bridges, power plants, etc. My major skills encompass managing the design and construction of geotechnical-related projects, performing advanced studies 2D and 3D numerical analyses (FEM), designing and directing geotechnical investigation campaigns, design of foundations of structures, soil improvement, design of groundwater control, deep braced excavations, etc.

Besides, I'm an authorized geotechnical engineering consultant by the Egyptian Engineers Syndicate, as well as I'm a member in many international and national scientific associations such as JSGE, IGSE, and ESGE. Moreover, I have published more than 20 peer-reviewed papers in international journals and conferences.

Personal information

<i>Name</i>	:	Mahmoud Fawzy Awad-Allah
<i>Date of birth</i>	:	30 December, 1979
<i>Gender</i>	:	Male
<i>Nationality</i>	:	Egyptian
<i>Marital status</i>	:	Married
<i>General Specialty</i>	:	Civil structural engineering
<i>Specific specialty</i>	:	Geotechnical engineering
<i>Current job</i>	:	Associate Professor, Geotechnical Consultant
<i>Degree</i>	:	PhD, Kyushu University, Japan (2015).

Education:

2012-2015	PhD Kyushu University, Civil and Structural Engineering Department (Japan).
2009-2012	JSPS fellowship under RONPAKU program (Japan).
2004-2008	M. Sc. degree in Geotechnical engineering Helwan University –Civil Engineering Department (Egypt).
2002-2004	Registration for Pre-master courses Helwan University –Civil Engineering Department (Egypt).
1998-2002	Bachelor of Engineering - Very good Grade Helwan University, Civil Engineering Department (Egypt). Final Year Project - Excellent Grade

Awards

Title of award	Date
<ul style="list-style-type: none"> Financial support award for academic excellence given by Helwan University, Faculty of Engineering, Egypt. 	1998 - 2002
<ul style="list-style-type: none"> Award of the top twenty of graduated students for the academic achievement given by the Egyptian government, Egypt. 	2003
<ul style="list-style-type: none"> JSPS fellowship under RONPAKU program, Japan. 	2009 - 2012
<ul style="list-style-type: none"> MEXT PhD scholarship, Kyushu University, Japan. 	2012 - 2015

Languages Skills

Arabic: Mother Tongue

English: Very Good (reading, writing & speaking)

French: Fair (reading, writing & speaking)

Japanese: Fair (reading, writing & speaking)

Computer Skills

AutoCAD software.

AutoCAD Civil 3D

Plaxis^{2D&3D} (Geotechnical Finite Element Program)

Wallap (Geotechnical Software Program).

Slide (Slop Stability Software Program).

SHAFT, ALLPILE, and Lpile (Pile foundation design Software)

ArcGIS Mapping program

Membership

Member in the International Geosynthetics Society in Egypt (IGSE)
Member in the Egyptian Geotechnical Society (EGS)
Member in the Japanese Society of Geotechnical Engineering (JGC).

Publications

<i>h</i> index (Google Scholar)	Citations (Google Scholar)	Total no. of Int. publications in Google Scholar
4	36	18
Google Scholar Page: https://scholar.google.com/citations?user=hZxrmO4AAAAJ&hl=ar		

The following is a sample of the published technical papers.

Journal (Peer review) Papers:

1. M. F. AWAD-ALLAH. “Field and numerical studies to evaluate slope stability in municipal solid waste sites“ Journal of Innovative Infrastructure Solutions (IIS), (2022) 7:150.
2. A. H. Abdel-Rahman, and M. F. AWAD-ALLAH. “Verification of Pull-out Resistance of Anchors in Soil/Rock Formations Using Empirical and Finite Element Methods “, Journal of Innovative Infrastructure Solutions (IIS), (2022) 7:134.
3. A. ABDEL-RAHMAN, M. AWAD-ALLAH , N. SOLIMANI “Corrugated Steel Tunnels – Numerical Study Using Finite Element and Analytical Methods” International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-10 Issue-1, 235-244, November 2020.
4. Awad-Allah, M. F. “Shear Strength Characteristics of Fibrous Solid Waste Materials in Landfill Sites”, Journal of Al-Azhar University Engineering Sector, Vol. 14, No. 50, pp. 47-56, January (2019).
5. Awad-Allah, M. F. “Reliability of the International Codes for Estimating the Bearing Capacity of Pile Foundation – A Statistical Study”, Electronic Journal of Geotechnical Engineering, Vol. 12, No. 4, pp. 467-486, December (2018).
6. Awad-Allah, M. F. “Full-scale Tests of Ground Anchors in Alluvium Soils of Egypt” Journal of Lowland Technology International, Vol. 19, No. 1, pp. 15-26, June (2018).
7. Awad-Allah, M. F. , Yasufuku, N., and Manandhar, S. “Three-dimensional (3D) failure pattern of flexible pile due to lateral cyclic loading in sand” Journal of Lowland Technology International, Vol. 19, No. 1, pp. 1-12, June (2017).
8. Awad-Allah, M. F. , Yasufuku N., and Abdel-Rahman A. H. “Cyclic response of wind turbine on piles in unsaturated sand” International journal of physical modeling in geotechnics. Vol. 17, No.3. pp. 61–176, July (2016).
9. Awad-Allah, M. F. , and Yasufuku N. “Predictability of the International Geotechnical for the Estimating Ultimate Bearing Capacity of Large-Diameter Bored Piles” Journal of JSCE, Vol. 1, No. 1, pp. 540-550, December (2013).

10. Awad-Allah, M. F. , Yasufuku, N., and Omine, K. "Evaluation of Accuracy and Predictability of the Methods Used for Calculating Ultimate Horizontal Load of Piles." Journal of Soil Mechanics and Foundation. Egyptian Geotechnical Society, Cairo, Egypt. Vol. 19, Part 2, pp. 213-228, January (2013).
11. Awad-Allah, M. F. , Yasufuku, N., and Omine, K. "Proposed Analytical Solution for Estimating of Ultimate Lateral Capacity of Piles in Sandy Soils." International Journal of Geo-engineering. Korean Geotechnical Society, Soule, Korea. Vol. 3, No. 4, pp. 29-39, December (2011).
12. Radwan, M., Abdel-Rahman, A. H., Rabie, M., and Awad-Allah, M. F. "Study of the Effect of Interference Strength Factor on the Behavior of Large Diameter Bored Piles under Vertical Loads." Journal of Soil Mechanics and Foundation. Egyptian Geotechnical Society, Cairo, Egypt. Vol. 18, Part 2, December (2007).
13. Abdel-Rahman, A. H., Rabie, M., and Awad-Allah, M. F. Comparison between Egyptian code, DIN 4014, and AASHTO methods of predicting ultimate bearing capacity of large diameter bored piles. Al-Azhar University Engineering Journal, Vol. 9, No. 3, July (2006).

Conference Papers:

1. Mohammed Rabeih, Awad-Allah, M. F. , and Eman Abdel Baseer "Lateral Bulging of Fully and Partially Encased Stone Column in Very Soft Clay Soil" 4th International Conference of Engineering Division, National Research Center, 6-8 May, 2018 Cairo, Egypt.
2. Awad-Allah, M. F. , Yasufuku, N. and Abdel-Rahman, A. H. "Factors Controlling the Behavior of Piled Foundations due to Cyclic Lateral Loading." H. Hazarika et al. (eds.), Geotechnical Hazards from Large Earthquakes and Heavy Rainfalls, DOI 10.1007/978-4-431-56205-4_5, pp. 555-568, Springer Japan 2017.
3. Mohammed Rabeih, Awad-Allah, M. F. , and Eman Abdel Baseer "Numerical Study of the Behavior of Ordinary and Encased Stone Columns in Soft Clay Soil" International Conference on Advances in Structural and Geotechnical Engineering ICASGE'17, 27-30 March 2017, Hurghada, Egypt.
4. Awad-Allah, M. F. , Yasufuku, N. "Comparative Study between the Methods Used for Estimating Ultimate Lateral Load of Piles in Sandy Soil." The 5th International Young Geotechnical Engineer's Conference, pp. 165-168, Paris, France, 31 Aug-1 Sep (2013).
5. Awad-Allah, M. F. , Yasufuku, N. "Performance of Pile Foundations in Sandy Soil under Slow Cyclic Loading." The 5th International Conference Geotechnical Symposium on Geot. Eng. for Disaster Prevention & Reduction, Incheon, Korea, pp. 291-300, May (2013).
6. Awad-Allah, M. F. , Yasufuku, N., and Omine, K. "Influence of Active Earth Pressure and Side Shear Resistance on Ultimate Horizontal Pile Capacity." The 9th International Conference on Testing and Design Methods for Deep Foundations, pp. 343-351, Kanazawa, Japan, September (2012).
7. Abdel-Rahman, A. H., and Awad-Allah, M. F. "Predictability and Performance of CFA Piling in Alluvium Soils." The 9th International Conference on Testing and Design Methods for Deep Foundations, pp. 785-793, Kanazawa, Japan, September 2012.

Academic Experience and Research Projects

<ul style="list-style-type: none">• Teaching geotechnical engineering courses for undergraduate students at Higher Institute of Engineering (El-Shorouk Academy, Cairo, Egypt).
<ul style="list-style-type: none">• Supervisor on two academic theses (M.Sc. and PhD).
<ul style="list-style-type: none">• Co-PI for a research project titled “Implementation of Corrugated Metal Structures as an Economical Solution for the Construction of Bridges and Tunnels in EGYPT” Funded by National Research Centre in Egypt (Currently).
<ul style="list-style-type: none">• Researcher assistant for a research project titled “Alternatives of clay-based liner materials for municipal solid waste landfill” funded by US Agency for International Development (USAID), through the period of 2005 to 2008.
<ul style="list-style-type: none">• Oral presentation at the 5th International Young Geotechnical Engineer’s Conference, Paris, France, 31 Aug-1 Sep (2013).
<ul style="list-style-type: none">• Oral presentation at the 5th International Conference Geotechnical Symposium on Geot. Eng. for Disaster Prevention & Reduction, Incheon, Korea, May (2013).
<ul style="list-style-type: none">• Oral presentation at the 9th International Conference on Testing and Design Methods for Deep Foundations, Kanazawa, Japan, September 2012.
<ul style="list-style-type: none">• Oral presentation at the 9th International Conference on Civil and Architectural Engineering, Military Technical College, May 2012, Cairo, Egypt.
<ul style="list-style-type: none">• Oral presentation at the Sixth Alexandria International Conference on Structural and Geotechnical Engineering, April 2007, Alexandria, Egypt.
<ul style="list-style-type: none">• Oral presentation at the Twelfth International Colloquium on Structural and Geotechnical Engineering. Ain-Shams University, December 2007, Cairo, Egypt.

Reference

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