Name: ABDULLA A. SHARO

C.V.

Contact Address:
Jordan University of Science and Technology
P.O.Box 3030, Irbid 22110, Jordan
Mobile : +962-799-772-983
e-m ail: aasharo@just.edu.jo

Bio. (Dr. Sharo)

Abdulla A. Sharo Dr Sharo is holding a Ph.D in Civil/Geotechnical Engineering since 2009 from the University of Akron, Akron, Ohio, USA.

Major Fields: p-y curves for laterally loaded drilled shaft, behavior of expansive soil, soil improvements techniques, deep foundations engineering mechanics with emphasis on inelastic behavior, fatigue.

Research interest:

1. Deep foundation including horizontal capacity of drilled shafts and piles in particular; rock socketed drilled shafts and piles.
2. Rock properties and their measurements.
3. Stabilization of expansive soils and slope stability evaluation, stability of landfills.

Dr. Sharo is the author of more than 23 publications in geotechnical engineering in a peer reviewed journals and conferences as well and supervised more than 15 Graduate students. Assistant Prof. Dr. Sharo is a member of Jordanian engineering association JEA and former associated member of American society of civil engineering ASCE.

Dr. Sharo as a Geotechnical Engineer: Summary

Dr. Abdulla A. Sharo is **a geotechnical engineer** with more than 11 years of geotechnical design experience and eight years of geotechnical research experience, especially the analysis of slope stability, pile foundation, soil retaining wall and soft ground improvement design, including site investigation and lab testing. He is adept in using several geotechnical engineering software, including SLOPE/W, SEEP/W, SIGMA/W, SHORING, GRLWEAP, DRIVEN, APILE, LPILE, SHAFT, GROUP, FB-Pier, SETTLE3D and SLIDE.

EDUCATION

Ph.D, Civil Engineering, August 2009 **GPA:** 3.92/4.00 (Honored)
The University of Akron, Ohio
Dissertation: "Pressuremeter Applications in Laterally Loaded Drilled Shafts socketed into Transversely Isotropic Rocks"

M. Sc., Civil Engineering, February2004 **GPA:** 87.3/100 (Honored)
Jordan University of Science and Technology, Jordan.
Thesis:"Poisson's Ratio Effect on Compressive and Tensile Shaft Capacity Driven in Sand: Theoretical Formulation"

B. Sc., Civil Engineering, June2001 **GPA:** 77.1/100 (Honored)
Jordan University of Science and Technology, Jordan.
Graduation Project: "Retaining Walls Design and Earth Reinforcement"

RELEVANT COURSES

Ph.D. Academic courses

- Design of Earth Structures.
- Soil Improvement.
- Advanced Foundation Engineering.
- Computer Aided Design and Manufacturing.
- Advanced Seminar in Geotechnical Engineering.
- Numerical Methods in Geotechnical Engineering.
- Advanced Soil Mechanics.
- Soil Dynamics.
- Applied Statistics.

M. Sc., Academic courses

- Advanced Soil Mechanics.
- Advanced Foundation Engineering.
- Advanced Applied Mathematics for Engineers.
- Special Topics in Soil Mechanics and Foundation Engineering.
- Soil Behavior.
- Piles Foundation.
- Advanced Rock Mechanics.
- Special Topics in Transportation Engineering.

WORK EXPERINCE

Experiences:

Program Director of civil Engineering, Al Ain University, Jan. 2024- Jan. present

Al Ain University, Abu Dhabi, UAE.

Professor, Al Ain University, Abu Dhabi Campus, Jan. 2024- Jan. present

Al Ain University, Abu Dhabi, UAE.

Associate Professor, Al Ain University, Abu Dhabi Campus, Aug.. 2021- Jan. 2024

Al Ain University, Abu Dhabi, UAE.

Associate Professor, Jordan University of Science and Technology, June. 2019- present
JUST, Irbid, Jordan (on Sabbatical Leave at Al Ain University, UAE)

Assistant Professor, Jordan University of Science and Technology, Feb. 2013- June, 2019
JUST, Irbid, Jordan

- Undergraduate classes, as (Soil mechanics, Foundation engineering, Rock mechanics, Applied Geotechnical Engineering, Earth retaining structure …etc.).
- Graduate classes such as (Advanced soil mechanics, Special Topics in Geotechnical Engineering, Advanced rock mechanics, Soil properties and their measurements, Earth retaining structure …etc.).
- Under graduate structural classes such as (Statics, Strength of material, Construction, Structural analysis …etc.).

Assistant Professor, German Jordanian University, Sep. 2011- Feb. 2013
GJU, Amman, Jordan

- Undergraduate classes,
- Geotechnical classes such as (Soil mechanics, Foundation engineering, Rock mechanics, Soil properties and their measurements, Earth retaining structure …etc.).
- Structural classes such as (Strength of material, Structural analysis, Reinforced concrete ... etc.).
- Other civil engineering courses (Hydrogeology, Fluid Mechanics, and Surveying)

➢ Practical Experiences:

Senior Geotechnical Engineer, Geotill, June. 2016- Dec. 2016
Geotill, Indianapolis, IN, USA

Duties including but not limited to:

- Performing Engineering Analyses related to foundations (deep and shallow) settlement and capacities, slope stability, tanks settlement, geotechnical contracting, probing and grouting stabilization of cavernous sites, instrumentation, pile testing.
- Conducting and analyzing inclinometer tests for sloe stability analysis.
- Analyzing and processing Cone Penetration Tests (CPT)
- Conducting and analyzing pressuremeter tests and packer permeability tests.
- Conducting and analyzing downholeand cross-hole seismic tests
- Geotechnical investigations and reports preparation for, industrial plants, sewage treatment plants, tanks farm, petro chemical facilities, and road maintenance projects.

Geotechnical Engineer, HNTB, Nov. 2009- Aug. 2011
HNTB, Milwaukee, WI, USA

- Determination of the geotechnical engineering properties of soils.
- Delineating soil stratifications for Trinity levee-downtown Dallas, TX using cone penetration test (CPT).
- Sheet piling analysis, design of pile foundations, slope stability analysis for embankments and levees.
- Lateral capacity of the group foundations, and settlement estimations.

  Projects worked at:
  - **U.S. 41 Geotechnical Services, Brown County**, **WI** (Nov. 2010- Aug. 2011) (#56294) – Geotechnical

engineer responsible for analysis and design of retaining walls and foundations for sign structures. The geotechnical analysis for MSE walls includes global stability, external stability, and settlement check of the wall structures. HNTB was recently selected as part of a team to provide subsurface exploration and geotechnical engineering services for the U.S. 41. The U.S. 41 project will address congestion on the west side of Green Bay by expanding from four lanes to six lanes and improving interchanges.

- **Zoo Interchange Emergency Bridge Replacements**, **Milwaukee, WI** (Feb.-Mar. 2010) - Geotechnical engineer responsible analysis of retaining walls, including slope stability check. Geotechnical scope included

  developing the subsurface exploration program, mobilizing drill rigs and coordinating lab testing of soil samples so that bridge support recommendations and plans could be developed. Bridge, retaining wall and slope stability design recommendations were provided in record time to meet the project need. This fast- tracked $15 million project required a set of plans to be delivered in six weeks, further complicated by the 450 radii of the curved steel girder bridges. Contractors began work in January 2010 and had the new bridges opened for traffic by May 2010, with limited traffic disruptions. Extensive contractor and fabricator coordination was required throughout design in order to ensure material procurement and fabrication could meet the demanding schedule. The geotechnical engineers were also responsible for reviewing pile driving information including Pile Driving Analyzer data and modifying pile lengths based on field performance during construction.

- **Watertown to Madison High Speed Rail Final Design,** Watertown to Madison, Jefferson & Dane Counties, **WI** (June-Nov. 2010) (#47061) – Geotechnical engineer responsible for reviewing boring logs and lab testing results for determination of the geotechnical engineering properties of soils. Jintae was also responsible for analysis and design of pile foundations and settlement estimations for bridge foundations. HNTB provided final design services for a 38-mile high-speed rail line for train service of up to 110 mph between Watertown and Madison, WI. The project involved signals and communications, utilities, structures, roadbed, trackwork and alignment, geotechnical, drainage and a variety of other components, including positive train control, and public information involvement.

- **DFS Levee Rehabilitation Study, Dallas, TX** (May-June. 2010) (#45176) – Geotechnical engineer who performed quality control review of boring logs and lab testing for the Dallas Levee Rehabilitation project. The geotechnical exploration program utilized up to 16 different drill crews and six subcontract firms to investigate the current status of the Trinity River levees which provide Dallas and surrounding crucial flood protection.

- **I-94 North South Corridor, Milwaukee**, **Racine and Kenosha Counties, WI** (Dec. 2009-Apr. 2010) (#46423) – Geotechnical engineer providing geotechnical support for final design for I-94 North-South Corridor Project, including retaining wall evaluation and analysis on excess fill placement around Rawson Avenue and Ryan Road bridge. HNTB, as part of a joint venture with CH2M Hill, is providing project management, geotechnical, roadway, structure, plats, lighting, drainage, ITS, signal design, traffic mitigation, public involvement, community-sensitive design, Web site design, cost estimating and utility coordination. The corridor project will modernize the outdated Mitchell Interchange in Milwaukee County, as well as the dangerous Plainfield curve and create a modern corridor and improve safety for motorists traveling a road that has the highest accident rate on the Milwaukee County freeway system.

- **MOT 75 Interchange Reconstruction (MOT-75-12.00), Dayton**, **OH** (Nov. 2009-Dec. 2009) (#46820) - Geotechnical engineer responsible for analysis and design of bridge foundations as well as MSE walls. The project involves the design and construction of a third continuous through lane in each direction on I-75 and the replacement of 15 structures, two of which are over the Great Miami River, for the 1.11-mile stretch of mainline I-75. Additionally, the existing interchanges for First and Third Streets have been redesigned into a single interchange, from which both destinations can be reached, providing the critical link to the central business district of Dayton to I-75.

Graduate Research Assistant, Department o Civil Engineering, Aug. 2006 – Aug. 2009
The University of Akron, Akron, Ohio

- Conducting piles integrity tests.
- Site geotechnical instrumentation (Monitoring and Analysis).
- Full-scale loading test for a slope-pile system.
- 3-D Finite element simulation of pressuremeter utilizing ABAQUS software.
- Slope stabilization using drilled shaft technique.

Graduate Teaching Assistant, Department of Civil Engineering**,** Aug. 2006 – Aug. 2009
The University of Akron, Akron, Ohio

- Introduction to Mechanics of Solids
- Transportation Engineering
- Engineering Tools
- Earth Retaining Structures

Senior Geotechnical Engineer, Jul. 2005 – Aug. 2006
Al Fahmawi Engineering construction Co. L.T.D, Jordan

- Conducting site investigations
- Designing shallow and deep foundations
- Conducting slope stability analyses
- Preparing geotechnical reports

Geotechnical Engineer, Fugron Middle East, Aug. 2004 – Jul. 2005

Fugro Middle East,Dubai,UAE

Onshore

- Observing geotechnical investigation programs and Borehole logging
- Processing Piezo Cone Penetration Tests (PCPT)
- Conducting and analyzing pressuremeter tests
- Conducting and analyzing packer permeability tests
- Conducting and analyzing downholeand cross-hole seismic tests
- Geotechnical investigations and reports preparation for, low and high-rise buildings, industrial plants, sewage treatment plants, tanks farm, petro chemical facilities.
- Performing Engineering Analyses related to foundations (deep and shallow) settlement and capacities, slope stability, tanks settlement, geotechnical contracting, probing and grouting stabilization of cavernous sites, instrumentation, pile testing.

Near-and Offshore

- Conducting deep foundation capacities to support platforms, well heads and other offshore structures including driven pipe piles and drilled and grouted piles.
- Estimating mudmatbearing capacity for temporary support.
- Performing Leg (spudcan) penetration analyses for Jack-up drilling rigs.

Project Engineer Jun. 2004 – Aug. 2004

Engineering Rebar Factory, Doha,Qatar

- Preparing rebar detailed drawings
- Coordinating meetings, and progress of rebar production with clients

Teaching Assistant Jan. 2002 – Jan. 2004

Jordan University of Science and Technology, Jordan
Courses Taught:

- Statics
- Strength of Material
- Engineering Geology
- Engineering Computations
- Building Construction
- Rock Mechanics
- Pavement Design and Materials
- Soil Mechanics Laboratory
- Soil Mechanics (I, and II)
- Foundation Engineering (I, and II)

RESEARCH INTREST

- Geotechnical Engineering encompassing deep foundations
- Soil improvement techniques and stabilization of expansive soils.
- Retaining structures Soil dynamics
- Stability of landfills
- Field tests and full-scale site instrumentation
- Numerical modeling of Geomaterial
- characterization of Geomaterial
- Soil-structure and soil-machine interaction
- Construction Materials, including concrete, asphalt concrete, with particular emphasis on properties characterization, damage and degradation mechanisms.
- Engineering Mechanics with emphasis on inelastic behavior, fatigue, and damage mechanics; instrumentation for laboratory-scale specimens and large-scale prototype structures such as bridges, pavements, and geotechnical structures.

ADMINISTRATIVE EXPERINCE

- Offshore team leader at Fugrome, UAE (2004).
- Member of German Jordanian University council (2011-2012).
- Coordinator of geotechnical engineering section at JUST (2014-2019).
- Member of university council at JUST (2017-2018).
- Membership of many communities at the department of civil engineering at JUST.

RESEARCH FUNDS

- **Funded researches at JUST:**
  - Influence of environmental factors on the permeability of Irbid expansive soil (2020)
  - Improving geotechnical properties of different expansive soils taken from Jordan using Nano-Clay (2019).
  - Suitability of selected Amman's clay as compacted liners for landfill, Jordan (2018).
- **Funded research at Al Ain University:**
  - Water quality risk assessment and environmental sustainability due to the impact of construction activity (2022).

Membership and Professional affiliations

- Member of America Society of Civil Engineering (ASCE).
- Member of Jordanian Engineering Association (JEA).

Honors & Awards

- Honored student at Jordan University of Science and Technology (2001).
- Received Research Assistant reward (R.A) at Akron University (2006-2009).
- Honored external consultant for Great Amman Municipality Projects (2020-present).
- Reviewer of many prestige's journals including ASCE Journals, ASTM, KSCE.

- Editorial board member for "World Journal of Engineering" (2018-2021).

TRAINING COURSES

- Research Excellence: From Application to Publication, Academic Development and Quality Assurance Center, JUST, 2020.
- Statistical Data Analysis Using SPSS, Academic Development and Quality Assurance Center, JUST, Irbid, 2019.
- Testing and Evaluation, Academic Development and Quality Assurance Center, JUST, Irbid, 2013.
- SPSS statistical software, Academic Development and Quality Assurance Center, JUST, Irbid, 2013.
- LRFD Foundation, The Ohio Department of Transportation, Ohio, Jan.2007
- Mechanically Stabilized Earth Walls & Reinforced Soil Slopes, The University of Akron, Ohio, Oct. 2006
- Offshore Survival Course, H2S Course, First Aids, UAE, Jan. 2005

SELECTED PUBLICATIONS

- Malkawi, D. A., Rabab'ah, S. R., **Sharo, A. A.,** Aldeeky, H., Al-Souliman, G. K., & Saleh, H. O. (2023). Enhancing of uniaxial compressive strength of travertine rock prediction through machine learning and multivariate analysis. *Results in Engineering*, *20*, 101593.
- Rabab'ah, S. R., **Sharo, A. A.,** Alqudah, M. M., Ashteyat, A. M., & Saleh, H. O. (2023). Effect of using Oil Shale Ash on geotechnical properties of cement-stabilized expansive soil for pavement applications. *Case Studies in Construction Materials*, *19*, e02508.
- AL HATTAMLEH, O., **SHARO, A.,** SHANAB, L. A., ALDEEKY, H., & AL DWAIRI, R. (2023). Effect of the quasi rate of loading in Particle Crushing and Engineering Properties of Black Tough Sand. *Acta Montanistica Slovaca*, *28*(2).
- Al Ahmed, Y., & **Sharo, A.** (2023, June). On the education effect of CHATGPT: Is AI CHATGPT to dominate education career profession?. In *2023 International Conference on Intelligent Computing, Communication, Networking and Services (ICCNS)* (pp. 79-84). IEEE.
- **Sharo, Abdulla A**., Samer R. Rabab'ah, Mohammad O. Taamneh, Hussein Aldeeky, and Haneen Al Akhrass. "Mathematical Modelling for Predicting Thermal Properties of Selected Limestone." *Buildings* 12, no. 12 (2022): 2063.
- Bani Baker, Mousa, Raed Abendeh, **Abdulla Sharo,** and Adel Hanna. "Stabilization of Sandy Soils by Bentonite Clay Slurry at Laboratory Bench and Pilot Scales." *Coatings* 12, no. 12 (2022): 1922.
- Ghuzlan, Khalid A., Ghazi G. Al-Khateeb, **Abdulla A. Sharo,** and Malak E. Shwaikeh. "Viscoelastic-based finite element rutting predictive models for asphalt pavements." *Emergent Materials* 6, no. 1 (2023): 337-354.
- **Sharo, Abdulla**, Batool Al-Shorman, Mousa Bani Baker, Osama Nusier, and Ahmed Alawneh. "New approach for predicting the load-displacement curve of axially loaded piles in sand." *Case Studies in Construction Materials* 17 (2022): e01674.
- **Sharo, Abdulla A.,** Mohammad A. Khasawneh, Mousa Bani Baker, and Dana M. Al Tarawneh. "Sonicated waves procedure effect on stabilizing expansive soil by nano-clay: Treat with cause." (2022).
- **Sharo, Abdulla** A. "CORRELATION BETWEEN UNCONFINED COMPRESSION STRENGTH AND POINT LOAD INDEX FOR AL-MAFRAQ BASALT ROCK."
- **Sharo, Abdulla A.,** and Mohammad Al-Tamneh. "Thermal Properties of Selected Limestone: Direct and Indirect Estimation." Journal of Rock Mechanics and Geotechnical Engineering (under review).
- **Sharo, A A**., Shaqour, F.M. & Ayyad, J.M. Influence of adding the lightweight tectosilicate-structured Zeolite of the plasticity of flaky-structured Clay. Getechincal Special publication 2022-March (GSP331), pp. 578-586. https://doi.org/10.1061/9780784484012.058
- **Sharo, Abdulla A.,** and Mohammad Al-Tamneh. "P-Wave Velocity of Limestone influenced by Saturation: Experimental Study." *International Review of Civil Engineering (I.RE.C.E.) Vol. 13, n. 2 (2022).*
- **Sharo, Abdulla A.,** Ahmed S. Alawneh, Hadeel N Al zghool, and Samer Rabab'ah. "The effect of alkali-resistant glass fibers and cement on the geotechnical properties of highly expansive soil." Journal of Materials in Civil Engineering (ASCE), Vol. 34, Issue 2 (February 2022), https://doi.org/10.1061/(ASCE)MT.1943-5533.0004058.
- **Sharo, Abdulla A**., Mohammaed S. Al-Zoubi, Areen M. Al-Ababneh. " On the Permeability of Layered Soil System: Experimental Study." International Journal of Geotechnical Engineering. (2021). DOI: 10.1080/19386362.2021.1972607.
- **Sharo, A A**., Shaqour, F.M. & Ayyad, J.M. Maximizing Strength of CKD — Stabilized Expansive Clayey Soil Using Natural Zeolite. KSCE J Civ Eng 25, 1204–1213 (2021).
- **Sharo, Abdulla A.,** Ahmed S. Alawneh, and Mohammad S. Al-Tawaha. "Alternative Solutions for

Consolidation Problems in Isotropic Clay Stratum using Laplace Heaviside's Theorem." *International Review of Civil Engineering (I.RE.C.E.),[online], Vol. 11, n. 2 (2020).*

- **Sharo, Abdulla A.,** and Mohammad Al-Tamneh. "Optimizing the Use of Formalin Aqueous by using Disposed Formalin Aqueous to Improve Properties of Expansive Soil." *Procedia Manufacturing 44 (2020), pp 44-51.*
- **Sharo, Abdulla A.,** and Daradkah H. Daradkah. "Optimizing the Impact of Detergents Contamination on the Geotechnical Properties of Soils." *Procedia Manufacturing 44 (2020), pp 615-622.*
- **Abdulla A. Sharo,** Mohammad S. Al-Tawaha. "Prediction of Engineering Properties of Basaltic Rocks in Jordan." *International Journal of Civil Engineering and Technology (IJCIET)* 10, no. 1 (2019): 1731–1739.
- **Sharo, Abdulla A.,** Ahmed Mohammed Ashteyat, Ahmed S. Alawneh, and Bashar Ali Bany Khaled. "The use of oil shale fly ash to improve the properties of Irbid soil." *World Journal of Engineering* 15, no. 5 (2018): 614-625.
- **Sharo, Abdulla A.,** Yusuf A. Alhouidi, and Mohammad S. Al-Tawaha. "Feasibility of Calcium Chloride Dehydrate as Stabilizing Agent for Expansive Soil." *Journal of Engineering Science and Technology Review* 11, no. 6 (2018): 156-161.
- **Sharo, Abdulla A.,** Yusuf A. Alhouidi, and Mohammad S. Al-Tawaha. "Improving Properties of Expansive Soil using Cement, Quick Lime and Cement-Lime Blend." *International Review of Civil Engineering (I.RE.C.E.), Vol. 10, n. 2 (2019); 94-103.*
- **Abdulla A. Sharo** Osama K. Nusier, and Fardous M. Rababah. "Spatial Distribution of Engineering Soil Properties in the Northern Region of the Dead Sea, Jordan." *Jordan Journal of Civil Eng*. 13, no. 2 (2019): 280-298.
- Alawneh, Ahmed Shlash, Osama K. Nusier, and **Abdulla A. Sharo.** "Poisson's ratio effect on compressive and tensile shaft capacity of driven piles in sand: Theoretical formulation." *Computers and Geotechnics* 34, no. 3 (2007): 151-163.
- Khaled A. Al-Sharo, **Abdulla A. Sharo,** "On m-S complemented subgroups of finite groups." *Rivista di Matematica della Università di Parma 9, no. 2 (2018):* 351-363.
- **Sharo, Abdulla A.** and Liang, R., "Statistical Cross Correlation Study of Elastic Constants and Dependency of Shear Modulus G' for Transversely Isotropic Rocks" *International Journal of Rock Mechanics, (Submitted).*
- **Sharo, Abdulla A.** and Liang, R. Y., "Transversely Isotropic p-y Curve Deduced from Pressuremeter Test. *American Society of Civil Engineering, ASCE, (Under Review).*
- **A. A. Sharo,** A. S. Alawneh, Enhancement of the Strength and Swelling Characteristics of Expansive Clayey Soil Using Nano-Clay Material. In Geo-Chicago, 451-457, (2016).
- Liang, Robert Y., and **Abdulla Sharo.** "Numerical investigation of the pressuremeter results affected by anisotropy of geomaterials." In *GeoFlorida 2010: Advances in Analysis, Modeling & Design*, pp. 1090-1099. 2010.
- **Sharo, Abdulla A.,** and Robert Y. Liang. "Numerical Study of Rock Identification Number β in Pressuremeter Test." In *GeoCongress 2012: State of the Art and Practice in Geotechnical Engineering*, pp. 2619-2628. 2012.
- **Sharo, A. A.,** and A. S. Alawneh. "Investigation of Lateral Resistance Factor (η) of Sand Using Pressuremeter: Numerical Approach." In *Geo-Congress 2014: Geo-characterization and Modeling for Sustainability*, pp. 1761-1770. 2014.
- Khasawneh, Y., Al-Omari, A., and **Sharo', A.** (2017). "Distress of a Large Diameter Underground Reinforced Concrete Shaft", ASCE Proceedings: Congress on Technical Advancement 2017, Duluth, MN, USA, pp. 184-195.
- **Sharo', A.,** Alawneh, A., and Al-Omari, A. (2015). "Nano Technology Application in Stabilizing Expansive Soil: Irbid Clay", The International Advanced Materials & Surfaces Forum, Dubai, UAE.

Master Theses Supervision

Advisor of the following Master Theses:

1. Ababneh, A. (2017). "ESTIMATION AND EVALUATION OF THE COEFFICIENT OF PERMEABILITY OF LAYERED SOIL". *Jordan University of Science and Technology.*
2. Zregat, Z. (2017). "THE SHAFT CAPACITY OF ROCK SOCKETED PILES: THEORETICAL APPROACH". *Jordan University of Science and Technology.*
3. Daradkah, B. (2017). "THE EFFECT OF DETERGENTS ON THE ENGINEERING PROPERTIES OF SOME SELECTED SOILS". *Jordan University of Science and Technology.*
4. Bany Khaled., B. (2017). "THE USE OF OIL SHALE FLY ASH TO IMPROVE THE PROPERTIES OF IRBID SOIL". *Jordan University of Science and Technology.*
5. Alhowaidi, Y. (2017). "IMPROVING PROPERTIES OF IRBID SOIL USING CEMENT, QUICK LIME AND CALCIUM

CHLORIDE". *Jordan University of Science and Technology*.

6. Dawas., O. (2018). "ASSESSMENT OF ROCK FALL AND SLOPE STABILITY OF 2017 JARASH LANDSLIDE". *Jordan University of Science and Technology*.
7. Abu-Radi., Q. (2018). "SUITABILITY OF SELECTED AMMAN'S CLAY AS COMPACTED LINERS FOR LANDFILL , JORDAN". *Jordan University of Science and Technology*.
8. Hadeel N Al Zghool., Q. (2019). "THE EFFECT OF USING ALKALI-RESISTANCE GLASS FIBERS AND PORTLAND CEMENT ON THE GEOTECHNICAL PROPERTIES OF HIGHLY EXPANSIVE SOIL". *Jordan University of Science and Technology*.
9. Ayad, J. (2019). "INFLUENCE OF ADDING NATURAL ZEOLITE AND CEMENT KILN DUST ON GEOTECHNICAL PROPERTIES OF EXPANSIVE CLAYEY SOIL". *Jordan University of Science and Technology*.
10. Al-Tarawneh, D. (2019). "IMPROVING GEOTECHNICAL PROPERTIES OF DIFFERENT EXPANSIVE SOILS TAKEN FROM JORDAN USING NANO-CLAY MATERIAL". *Jordan University of Science and Technology*.
11. Al-Shorman, B. (Jan. 2020). "NEW ANALYTICAL APPROACH FOR PREDICTING THE LOAD - DISPLACEMENT CURVE OF AXIALLY LOADED PILES DRIVEN IN SAND". *Jordan University of Science and Technology.*
12. Malkawi, G. (Jan. 2020). "ENGINEERING PROPERTIES OF TRAVERTINE ROCK FROM JORDAN VALLEY AND DEAD SEA AREAS". *Jordan University of Science and Technology.*

Co-Advisor of the following Master Theses:

1. Rababah, F. (2018). "SPATIAL DISTRIBUTION OF ENGINEERING SOIL PROPERTIES IN THE NORTHERN REGION OF THE DEAD SEA, JORDAN". *Jordan University of Science and Technology*.
2. Hadad, F. (2018). "SETUP OF DRIVEN PILES IN SAND: PARAMETRIC STUDY". *Jordan University of Science and Technology*.
3. Othman, M. (2018). "BASE CAPACITY OF OPEN-ENDED PIPE PILES DRIVEN IN SAND". *Jordan University of Science and Technology.*

4. Al-Omary, E. (2018). "SHAFT FRICTION CAPACITY OF DRIVEN OPEN-ENDED PILES IN SAND". *Jordan University of Science and Technology.*

COMPUTER SKILLS

- L-Pile (Laterally Loaded Piles)
- Shaft(Capacity of Drilled Shafts)
- Driven(Axially Loaded Piles)
- Stable (Slope Stability Program)
- Plaxis (Finite Element Program)
- Seep-Slope/W (Multi Purpose Finite Element Package)
- GRL-WEAP (Wave Analysis)
- MSOffice
- ABAQUS (Multi Purpose Finite Element Package)

REFERENCES

• **Professor:*Robert Liang, Ph.D., P.E,*** *Distinguished Professor of Civil Engineering, University of Akron.*
E- mail: rliang@uakron.edu
Tel: (330) 972-7190

• ***Richard A. Lyons,*** *Geotechnical Engineering Manager, HNTB Corp. Milwaukee, Wisconsin, USA.*
E- mail: RLyons@HNTB.com
Tel : +1-(262) 820-8714

•• ***Jamal Nusairat, Ph.D., P.E,*** *Director of Geotechnical Engineering and Research E.L. Robinson Engineering, Columbus, Ohio, USA.*
E-mail: jamal@elrobinson.com
Tel: (614)595-3537

• ***Professor: Abdallah I. Malkawi,*** *President, Fahad Bin Sultan University, Tabuk, KSA.*

E-mail: mhusein@just.edu.jo
Tel: +962-796-667-174