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| Full Name: | Dima. A Husein Malkawi |
| Date of Birth: | April 23, 1992 |
| Place of Birth: | United States of America |
| Nationality: | Jordanian/American |
| Present Position: | Assistant Professor, Department of Civil and Environmental Engineering, |
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## EDUCATION

**Bachelor of Civil Engineering, GPA: very good, August 2015**
Jordan University of Science and Technology
**M.A., Civil Engineering Specializing in Geotechnical, GPA: 4.0**
The University of Akron, Akron, Ohio
Thesis Title: Reliability-based analysis of energy piles
**Doctor of Philosophy in Geotechnical Engineering, GPA: 3.93**
Dissertation Title: Soil-Pile Interaction of Geothermal Foundation Subjected To Temperature Cycling.

## EXPERIENCE

**Jordan University of Science and Technology, June-August, 2015.**
construction trainee.
**Jordan University of Science and Technology in corporation with The University of Washington, Seattle, August 2014**
Engineering water cycle program
**Ph.D. Research at Lehigh University,** 2018-2019

**The University of Akron,** *Teaching Assistant,* 2016-2019

**Fahad Bin Sultan University,** Adjunct Professor (2020 - 2021)

**PUBLICATIONS**
**Published**

- **Husein Malkawi, D. A**., & Husein Malkawi, A. I. (2022). Stability Analysis of the New Section in Raising the Existing Composite Wala Dam Using Finite Element Methods. *Advances in Civil Engineering*.

- **Husein Malkawi, D. A**., Husein Malkawi, A. I., Bani-Hani, K (2022). Slope Stability Analysis for the Phosphogypsum Stockpiles: A Case study for the Sustainable Management of the Phosphogypsum stacks in Aqaba Jordan. *Sustainability*.

- **Husein Malkawi, D. A,** Suleiman, M. T., Elzeiny, R. (2021). Investigation of Soil-structure Interface Properties under Temperature Cycles and Different Operation Times of a Ground Source Heat Pump. In *IFCEE 202*

- Albatayneh, O., **Husein Malkawi, D. A,.**, Farid, A., & Ksaibati, K. (2022). A Developed Methodology for Determining Gravel Roads' Level of Service: A Case Study of Wyoming. *International Journal of Pavement Research and Technology*, *15*(4), 779-788..

- Albatayneh, O., **Malkawi, D. A. H**., Yue, E., Fosu-Saah, B., & Ksaibati, K. (2023). Integrating a Multi-criteria Route Optimization with ArcGIS for Gravel Road Data Collection. *Jordan Journal of Civil Engineering*, *17*(1).

- Fayez Abdulla, **Husein Malkawi, D. A** (2020) Potential impact of climate change on the drought conditions in Jordan, Jordan Journal of Civil Engineering, Volume 14, No. 1, 2020,108-116.

- Elzeiny, R., **Husein Malkawi, D. A,** Suleiman, M. T. (2021). Investigation of Thermal Loading Effects on Behavior of Energy Piles Subjected to Lateral Loading. In *IFCEE 2021*.

- Malkawi, A. I. H., Shatnawi, E., & **Husein Malkawi, D. A.** (2017). A comparative study of physical and chemical properties of different pozzolanic materials used for roller compacted concrete RCC dams. In *MATEC Web of Conferences* (Vol. 120, p. 02025). EDP Sciences.

- Almasri, A. H., **Husein Malkawi, D. A.**., & Malkawi, A. I. H. (2023). Numerical analysis to determine the optimum distance of reaction piles in a static pile load test. *Arabian Journal of Geosciences*, *16*(1), 7.

- Bani-Hani, M. A., **Husein Malkawi, D. A**., Bani-Hani, K. A., & Kouritem, S. A. (2023). Genetic Algorithm Optimization of Rainfall Impact Force Piezoelectric Sensing Device, Analytical and Finite Element Investigation. *Materials*, *16*(3), 911.

**Under Review**

- Effects Of Daily Operation Cycles Of Ground Source Heat Pumps On Soil-Pile Interaction Of Energy Piles. (2021)
- Cawley, L., Albatayneh, Omar., **Husein Malkawi, D. A.** & Ksaibati, K. "Best Practices in Asset Management and Trade-off Analysis: A Survey of State Department of Transportation Experiences"**.** *International Review of Civil Engineering.*

**Projects**

- Stability Analysis of the above Ground Slopes for the Stacking of Phosphogypsum in Aqaba. (2020)
- Stability Analysis of the New section in Raising the Existing Composite Wala Dam (2021).
- Seepage Failure Mechanism of Shaitham Concrete Face Rockfill Dam During Reservoir Water Infiltration (2022)

**Supervised Master Thesis's**

- The Efficiency of Granular Pile Anchor (Gpa) Foundation System in Improving the Pullout Resistance of Irbid Expansive Clayey Soil: An Experimental Investigation, Amani Mousa Mohammad Al-Masoud (2020)
- The Efficiency of the Granular Pile Anchor Foundation System In Reducing The Heave Of Irbid Expansive Clayey Soil: An Experimental Investigation, Ahmad Odeh Ahmad Alsuqaier (2020)
- The Effect of Using Alkali-Resistant Glass Fibers and Portland Cement On the Geotechnical Properties of Highly Expansive Soil, Hadeel Nayef Al Zghool (2020).
- Expansive Soil Treated with Phosphogypsum and Lime and The Possibility of Utilizing It as Sub-Base Layer. Malak Mohammed AlSyouf (2022).
- Estimation of Pullout Capacity of Granular Pile Anchors Based on Cavity Expansion Theory. Mohammad Nader Al-Khateeb (2023)

**COMPUTER SKILLS**

Microsoft Office Software (Word, Excel, Access, PowerPoint, etc.)
Proficient with Microsoft Windows 98, XP Home/Professional, and Vista
AutoCad program,
Etabs program,
Ensoft Shaft software,
Ensoft LPile software,
Ensoft Group software,
Thermo Pile software,
PlAXIS 2D

**INTERPERSONAL SKILLS**

Languages: Arabic, English

**RESEARCH INTEREST**

Soil-Structure Interaction
Geothermal Foundations
Slope Stability

**TECHNICAL JOURNAL REVIEWER**

Journal of Geotech. and Geoenvironmental Eng

Jordan Journal of Civil Engineering