

Zuhier Alakayleh, Ph.D.

Assistant Professor, Department of Civil and Environmental Engineering

Mutah University, Karak, Jordan

Email zalakayleh@mutah.edu.jo

Education

- **Ph.D.** Civil Engineering, Auburn University, Auburn, Alabama, USA, 2019. GPA: 4.0, Dissertation title: “Qualifying the Saturated Hydraulic Conductivity and Corresponding Infiltration Processes”.
- **M.Sc.** Civil Engineering/Water and Environment, The University of Jordan, Amman, Jordan, 2013.
- **B.Sc.** Civil Engineering, The University of Jordan, Amman, Jordan, 2009.

Professional Experience

- **Assistant Professor**, Department of Civil and Environmental Engineering, Mutah University, Karak, Jordan (Jan 2020 – Present). With the following duties and responsibilities:
 - Teaching undergraduate courses such as Groundwater Engineering, Water Structures, and Irrigation and Drainage Engineering.
 - Conducting research in the field of water resources engineering.
- **Research and Teaching Assistant**, Samuel Ginn College of Engineering, Department of Civil Engineering, Auburn University (Jan 2016 – Dec 2019).
 - Supervised students’ work and assignments in some graduate and undergraduate level courses; such as Civil Engineering Analysis, Groundwater Hydraulics, and Hydraulics Lab.
 - Conducted research in water movement into the soil.
- **Head of Maintenance and Direct Implementation Section**, National Electric Power Company (NEPCO), Amman, Jordan (Nov 2012 – Nov 2014) with the following duties and responsibilities:
 - Leading a team of engineers and employees that develop, support, and carry out technical solutions for buildings maintenance work and construction.

- Reporting directly to the director of engineering.
- **Civil Engineer**, National Electric Power Company (NEPCO), Amman, Jordan (May 2009 – Jan 2016) with the following duties and responsibilities:
 - Estimate quantities and cost of materials, equipment, and labor.
 - Provide technical advice regarding design and construction.
 - Prepare plans and supervise the construction of various buildings.
 - Prepare tender drawings and technical specifications.

Publications

- Alakayleh, Z.; Clement, T.P.; Fang, X. Understanding the Changes in Hydraulic Conductivity Values of Coarse- and Fine-Grained Porous Media Mixtures. *Water* **2018**, *10*, 313.
- Alakayleh, Z.; Fang, X.; Clement, T.P. A Comprehensive Performance Assessment of the Modified Philip–Dunne Infiltrometer. *Water* **2019**, *11*, 1881.
- Alakayleh, Z.; Fang, X.; Clement, T.P. Effect of Initial Moisture Content on the Drawdown Curve Measured Using the Modified Philip-Dunne Infiltrometer”. In preparation.

Conference Proceedings

- The American Geophysical Union Fall Meeting 2017, New Orleans, Louisiana, USA, December 11-15, 2017.

Research Interest

- Water resources engineering.
- Groundwater hydraulics and hydrology.
- Numerical simulation of groundwater flow and contaminant transport.

Computer Software

- GMS.
- Hydrus.

- SEAWAT.
- RT3D.
- HEC-HMS.
- MODFLOW.
- ArcGIS.
- Visual Basic for Application.
- AutoCAD.
- Primavera Project Planner.
- Microsoft Office.
- Prokon.

Teaching Courses

- Groundwater Engineering, Department of Civil and Environmental Engineering, Mutah University, Karak, Jordan.
- Water Structures, Department of Civil and Environmental Engineering, Mutah University, Karak, Jordan.
- Irrigation and Drainage Engineering, Department of Civil and Environmental Engineering, Mutah University, Karak, Jordan.
- Civil Engineering Analysis, Department of Civil Engineering, Auburn University.
- Hydraulics Lab, Department of Civil Engineering, Auburn University.

References

- Available upon request.