

**Personal Profile (Overview):**

**Research interests:** Phosphorus Transport Dynamic, Drainage Modeling, Subsurface Drainage System Design, Drainage Water Quality, Controlled Drainage, Water Movement Through Porous Media, Two-dimensional Infiltration, Conjunctive Use of Water Resources

**Honors:** Outstanding Student in B.Sc.; Rank 6 in the National Graduate Entrance Exam for the Master of Science and Tuition-free Study in Irrigation and Drainage Engineering; Reviewer of the Journals of Irrigation and drainage (Wiley) and Sustainability (MDPI).

**Software Skills:** DRAINMOD 7, Hydrus 2D/3D, MATLAB, ArcMap, Civil3D

**Education**

Since January 2020	<b>PhD student</b> of Biosystems and Agricultural Engineering Department of Biosystems and Agricultural Engineering, Michigan State University, East Lansing, USA Supervisor: Dr. Ehsan Ghane
2014 - 2016	<b>M.Sc.</b> in Agricultural Engineering - Irrigation and Drainage Department of Irrigation and Reclamation, University of Tehran, Tehran, Iran. Thesis Title: "Field and Simulation Study on Two-Dimensional Infiltration and Edge Effect in Conventional and Alternate Furrow Irrigation"

**Journal Papers**

**Dialameh, B.,** and Ghane, E. (2022) "Effect of water sampling strategies on the uncertainty of phosphorus load estimation in subsurface drainage water". *Journal of Environmental Quality*, 51(3): 377-388.

**Dialameh, B.,** Parsinejad, M., and Ebrahimian, H. (2022) "Field evaluation of an explicit infiltration function for conventional and alternate furrow irrigation". *Irrigation and Drainage*. Published Online. DOI: 10.1002/ird.2722.

Ghane, E., **Dialameh, B.,** AbdalAal, Y., and Ghane, M. (2022) "Effect of knitted-sock geotextile envelope on drain inflow in subsurface drainage systems". *Agricultural Water Management*. Published Online. DOI: 10.1016/j.agwat.2022.107939.

**Dialameh, B.,** and Ghane, E. (2022) "High-frequency monitoring of subsurface drainage discharge provides insight into phosphorus transport dynamics". *Journal of Great Lakes Research*. Under Review.

Ebrahimian, H., **Dialameh, B.,** and Hosseini-Moghari, S.M. (2020) "Optimum conjunctive use of aqua-agriculture reservoir and irrigation canal for paddy fields (case study: Tajan irrigation network, Iran)" *Paddy and Water Environment*, 18(3): 499-514.

**Dialameh, B.,** Parsinejad, M., Ebrahimian, H., and Mokhtari, A. (2018) "Field comparison of infiltration in conventional and alternate furrow irrigation under various initial and boundary conditions" *Irrigation and Drainage*, 67 (2): 156-165.

**Dialameh, B.,** and Ebrahimian, H., (2018) Discussion of "Transient water flow and nitrate movement simulation in partially saturated zone" *Journal of Irrigation and Drainage Engineering*, 145 (4): 07019003.

**Dialameh, B.,** Parsinejad, M., Ebrahimian, H., and Mokhtari, A. (2018) "Effect of water head and irrigation period on cumulative and lateral infiltration in furrow irrigation" *Journal of Irrigation Science and Engineering*. In Persian.

Ebrahimian, H., Vatankhah, E., Khedmati, S., and **Dialameh, B.** (2018) "Deficit irrigation effect on temporal changes of infiltration in furrow irrigation." *Journal of Irrigation Science and Engineering*. In Persian.

## Presentations

**Dialameh, B., Ghane, E. (2022)** " Investigation of sampling strategies and phosphorus transport dynamics in subsurface drainage using high-frequency measurements". 2022 *International Drainage Symposium, Des Moines, Iowa, USA.*

**Dialameh, B., Ghane, E. (2022)** "Investigation of phosphorus transport dynamics in subsurface drainage using high-frequency measurements". 2022 *ASABE Annual Meeting, Houston, Texas, USA.*

**Dialameh, B., Ghane, E. (2022)** "Effect of water sampling strategy on the uncertainty of phosphorus load estimation". 2022 *Engineering Graduate Research Symposium, East Lansing, MI, USA.*

**Dialameh, B., Ghane, E. (2021)** "Effect of water sampling strategy on the uncertainty of phosphorus load estimation". 2021 *ASABE Annual Meeting, Virtual Meeting.*

**Dialameh, B., and Dialameh, M. (2016)** "Investigating the Possibility of Using Urban Wastewater in Agriculture (Case Study: Kerman)" *The First Applied Engineering Sciences Conference, Kerman, Iran.*

## Academic Employments

### Research Assistant

Department of Irrigation and Remediation, University of Tehran:

- Water and Soil Environmental Research Institute (April 2017 – April 2019)
- Irrigation Laboratory (April 2017 – January 2019)

### Teacher Assistant

Department of Irrigation and Remediation, University of Tehran:

- General Irrigation LAB (September 2017 – January 2019)
- Fluid Mechanics (September 2017 – January 2019)
- Hydraulics (January 2018 – March 2018)

### Workshop Lecturer

- Water Resources Management in Landscape Irrigation (February – 2018)
- Urban Water Resources Management in Drought Condition (October – 2018)

## Research Projects

Investigating the Long-term Effects of Irrigation with Wastewater on Agricultural and Horticultural Lands (Case study: Hashtgerd and Eshtehard plains, Karaj province, Iran)

Collaborating as research assistant

Development and Evaluation of Mathematical Model for Irrigation Return Flow in Paddy Rice Fields (Case Study: Sepidrood Irrigation Network, Guilan Province, Iran)

Collaborating as research assistant

## Certificates

- Design and Operation of Pressurized Irrigation Systems, Agricultural and Natural Resources Engineering Organization of Iran (2015)
- Advanced Land Surveying, Shiraz University, Iran (2014)