


Fadi Kardan

Stuttgart, Germany

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Groundwater Flow and Transport Modelling | Groundwater and Soil Remediation | Hydraulic Engineering | Optimization



 in/fadi-kardan

Education

- 10/2021 – 05/2024 **MSc Water Resources Engineering and Management**
University of Stuttgart (Stuttgart, Germany)
- Thesis (with Kobus und Partner and the LH2): Furthering the Development of the Thermal Online Model (TOM) with Validation using FEFLOW.
 - Groundwater Modeling, Groundwater and Soil Remediation, Stochastic Modeling and Geostatistics, Hydraulic Engineering, Optimization
- 09/2013 – 06/2018 **BSc Civil Engineering**
University of Jordan (Amman, Jordan)

Work Experience

- Current **Research Assistant**
Prof. Kobus und Partner GmbH (Leinfelden-Echterdingen, Germany)
- 04/2022 – 0/2024 **Intern**
Prof. Kobus und Partner GmbH (Leinfelden-Echterdingen, Germany)
- Tested the transport capabilities of MODFLOW 6.
 - Analyzed and corrected new and historical groundwater data.
 - Created python scripts to manipulate QGIS data.
- 10/2022 – 03/2023 **Student Assistant**
University of Stuttgart (Stuttgart, Germany)
Department of Stochastic Simulation and Safety Research for Hydrosystems
- Giving tutoring sessions for the Data, Statistics and Optimization course.
 - Creating and presenting an introduction to Python programming.
- 06/2022 – 09/2022 **Student Assistant**
University of Stuttgart (Stuttgart, Germany)
Department of Hydromechanics and Modelling of Hydrosystems
- Creating scripts to upload metadata from DuMu^x simulations to datasets in University of Stuttgart's data repository (DaRUS)
 - Reviewing unpublished datasets in DaRUS.

09/2018 – 09/2021

Project Coordinator & Communications Officer

EcoPeace Middle East (Amman, Jordan)

As project coordinator:

- Supervised the successful installation of over 100 domestic greywater treatment systems in the Northern Jordan Valley.
- Member of a team that oversaw the successful design and construction of a constructed wetland.
- Member of a team that oversaw the ongoing installation of a solar array for the Tal al Mantah wastewater treatment plant.
- Assisted in the creation of educational content related to water treatment and reuse including an awareness video and brochures.

As communications officer:

- Creating a marketing plan.
- Overseeing the development of a new visual identity.
- Creating content including videos, articles, press releases, monthly newsletters.
- Coordinating with national, regional, and international journalists, filmmakers, and researchers to raise awareness about water scarcity and environmental issues in the Jordan Valley.
- Planning and logistical support for annual conferences, events, and educational tours of the Jordan Valley.
- Acting as the Internship Coordinator.

Awards

Named as one of the top two performing employees in EcoPeace's Amman Office in 2020

Other Experience

01/2022 - 01/2023

President

The International Association for Hydro-Environment Engineering and Research -Young Professionals Network –Baden Württemberg (IAHR-YPN BW)

Knowledge and Interests

Languages:

English – Mother tongue
Arabic – Mother tongue
German – B1

Software Skills:

Python, MODFLOW, FEFLOW, QGIS, C++,
AutoCAD, SQLITE, Video Editing, Revit, MATLAB

Communication Skills:

Creative Writing, Technical Writing,
Debate, Lecturing, Negotiation

Other Skills:

Music Performance (Electric & Classical Guitar)
Music Theory
Translation (Arabic-English, English-Arabic)
Dance: Salsa and Bachata