

Curriculum Vitae

Dr. TALEB S.A ODEH

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Keywords:

Surface water and groundwater modelling, Hydrology, Hydrogeology, Geomorphology, Hydrogeochemistry, Landscape characters assessment, Remote Sensing (RS), Geographic Information System (GIS), Environmental science

EDUCATION

2006 – 2011 Doctorate study:

Doctor of Groundwater modeling
Technical university of Freiberg, Germany

2002 – 2005 Master study

Master of hydrogeology
University of Jordan, Jordan

1998 –2002 Bachelor study

Bachelor of applied and environmental geology
University of Jordan, Amman, Jordan

WORK EXPERIENCE

A) Assistance Professor at the Hashemite University - Arid lands Academy (2015 – current time).

B) Assistance Professor at German Jordanian University - Department of water and environmental engineering (2011 - 2015).

C) Doctoral research at two research institutes in Germany (2006 – 2011):

- 1) Helmholtz Centre for Environmental Research – UFZ, Catchment hydrology department, Germany – Haale.
- 2) Freiberg University of Mining and Technology – TUBAF, Remote sensing department, Germany – Freiberg.

During the five years of my PhD research I had affiliations for the two mentioned departments.. In UFZ I was working for hydrological and hydrogeological modelling while in TUBAF I was working for GIS and remote sensing stuff.

COMPONENT IN INTERNATIONAL PROJECTS

1) GLOWA Jordan River:

It was an interdisciplinary and international research project providing scientific support for sustainable water management in the Jordan River region that was funded by Federal Ministry of Education and Research – BMBF in Germany.

2) SUMAR Dead Sea:

It was an international research project for Sustainable Management of Water Resources (Quantity and Quality) in the Dead Sea Area that was funded by Federal Ministry of Education and Research – BMBF in Germany.

3) MEDSCAPES:

It is an international research project for developing landscape maps as a tool that provide support to decision-makers responsible for land use and regional planning. This project is funded by the European Neighbourhood and Partnership Instrument (ENPI) for initiatives between EU and other Mediterranean countries. Jordan, Lebanon, Cyprus and Greek land are included in this project.

SCHOLARSHIP, GRANTS AND ESPECIAL CERTIFICATION

1) DAAD Scholarship, German Academic Exchange Service, PhD Student (2006 – 2010).

2) METIER - METHods of Interdisciplinary Environmental Research (Marie Curie Series of Events) full grant for oral presentation of METIER final conference in Brussels (2009).

3) METIER - METHods of Interdisciplinary Environmental Research (Marie Curie Series of Events) full grant for remote sensing coarse attending in Helsinki (2008).

4) Martin Luther University, Research assistance scholarship, Halle - Germany (2010 - 2011).

5) Higrade school scholarship (Higrade school is Helmholtz Interdisciplinary Graduate School for Environmental Research (2011).

PRESENTATIONS IN INTERNATIONAL CONFERANCES

A) Oral presentations in international conferences:

1) Exploration of Wadi Zerka Ma'in rotational fault and its drainage pattern, Eastern of Dead Sea, by means of remote sensing, GIS and 3D geological modeling, SPIE Europe's International Symposium on Remote Sensing (ERS09), **Berlin, Germany.**

2) Investigation of Catchment Areas Migrations Through a Sinstral and Dextral Strike Slip Faults: The Case Study of Zerka Ma'in and Al Hasa Catchment Areas, East of the Dead Sea in Jordan. International conference on geology and Seismology (GES'10), **Cambridge, United Kingdom.**

3) Groundwater flow within the fault system of Wadi Zerka Ma'in catchment area using remote sensing and GIS methods. International METIER conference, **Brussels, Belgium.**

B) Poster presentations:

1) Development of groundwater salinity in the wadi zerka ma'in catchment area, dead sea, jordan. In 7th International Groundwater Quality Conference (2010), Zürch, Switzerland.

2) Groundwater recharge modelling of strike slip faulted catchment area: the case of the Zerka Ma'in (Dead Sea, Jordan). IWRM - Integrated Water Resources Management , Karlsruhe, Germany.

LANGUGES

Reading, writing and speaking fluently the following languages: Arabic, English and Deutsch.

COURSES THAT I TEACH IN THE UNIVERSITY:

Hydrogeology, Hydrology, Environmental geology, Geographic information system, environmental science, groundwater modeling, hydrological modeling, and geo-visualization

REVIEWER FOR JOURNALS:

- 1) Environmental earth sciences Journal.
- 2) Journal of Hydrogeology.
- 3) Sustainable Water Resources Management Journal.

PUBLICATIONS LIST

Odeh, T., Salameh, E., Schirmer, M., Strauch, G. (2009): Structural control of groundwater flow regimes and groundwater chemistry along the lower reaches of the Zerka River, West Jordan, using remote sensing, GIS, and field methods. *Environ Geol* 58, pp. 1797–1810.

Odeh, T., Gloaguen, R., Schirmer, M., Geyer, S., Rödiger, T. and Siebert, C. (2009): Exploration of Wadi Zerka Ma'in rotational fault and its drainage pattern, Eastern of Dead Sea, by means of remote sensing, GIS and 3D geological modeling, *Proceeding of SPIE Europe's International Symposium on Remote Sensing (ERS09)*, Vol.7478, Berlin, 11 pp.

Odeh, T., Gloaguen, R., Schirmer, M., Geyer, S., Rödiger, T. Siebert, C. (2010): Investigation of Catchment Areas Migrations Through a Sinistral and Dextral Strike Slip Faults: The Case Study of Zerka Ma'in and Al Hasa Catchment Areas, East of the Dead Sea in Jordan. Proceedings of the 4 ASME/WSEAS *International conference on geology and Seismology (GES'10)*, Cambridge, ISBN: 978-960- 474-160-1, pp. 120-126.

Odeh, T., Geyer, S., Gloaguen R., Schirmer M., Rödiger, T., Siebert, C. (2010): Development of groundwater salinity in the Wadi Zerka Ma'in catchment area, Dead Sea, Jordan. *Proc. 7th International Groundwater Quality Conference IAHS Publ 342*, pp. 487-490.

Odeh, T., Geyer, S., Rödiger, T., Siebert, C., Schirmer, M. (2013): Groundwater chemistry of strike slip faulted aquifers: the case study of Wadi Zerka Ma'in aquifers, north east of the Dead Sea. *Environ Earth Sci* 70, pp. 393 –406.

Odeh, T., Rödiger, T., Geyer, S., Schirmer, M. (2014): Hydrological modelling of a heterogeneous catchment using an integrated approach of remote sensing, a geographic information system and hydrologic response units: the case study of Wadi Zerka Ma'in catchment area, north east of the Dead Sea. *Environ Earth Sci* 73, pp. 3309 –3326.

Al-Akhras, M-A., Albiss, B., Alqudah, M., **Odeh, T.** (2015): Environmental Pollution of Cell-Phone Towers: Detection and Analysis Using Geographic Information System. *Jordan Journal of Earth and Environmental Sciences* 7, pp. 77 - 85.

Abu Jaber, N., Abunnasr, Y., Abu Yahya, A., Boulad, N., Christou, O., Dimitropoulos, G., Dimopoulos, Gkoltsiou, T., K., Khreis, N., Manolaki, P., Michael, K., **Odeh, T.**, Papatheodoulou, A., Sorotou, A., Sinno, S., Suliman, O., Symons, N., Terkenli, T., Trigkas, V., Trovato, M.G., Victora, M. Zomeni, M. Vogiatzakis I. N. (2015): Travelling in the eastern Mediterranean with landscape character assessment. *Proc. Third International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2015) SPIE Proceedings Vol. 9535*, pp. 1–11.

Odeh, T., Gloaguen, R., Mohammad, Al. H., Schirmer, M. (2016): Structural control on drainage network and catchment area geomorphology in the Dead Sea area: an evaluation using remote sensing and geographic information systems in the Wadi Zerka Ma'in catchment area (Jordan). *Environ Earth Sci* 75, pp. 482–500.

Mohammad , Al. H., Shatanawi, K., **Odeh, T.** (2016): A modified modeling of potentiality and vulnerability of the groundwater resources in Amman Zarqa Basin, Jordan. *Kuwait J. Sci.* 43, pp. 208–221.

PhD. THESIS

Odeh, T., (2011): Structural control on groundwater chemistry, recharge and flow – Integrated approach using remote sensing, GIS and modelling: The case study of Wadi Zerka Ma'in catchment area (Jordan). PhD thesis, Technische Universität Bergakademie Freiberg.

ACADEMIC REFERENCES:

Prof. Dr. Elias Salameh:

University of Jordan – **Jordan**
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Prof. Dr. Prof. Nizar Abu Jaber

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Prof. Dr. Mario Schirmer:

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