

Curriculum Vitae

Shadi Y. Moqbel

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Education

Ph.D. Environmental Engineering, 2009, University of Central Florida, Orlando, Florida.

M.Sc. Civil Engineering, 2004, Jordan University of Science & Technology (J.U.S.T), Irbid, Jordan. Major: Water Resources and Environmental Engineering.

B.Sc. Civil Engineering, 2002, Jordan University of Science & Technology (J.U.S.T), Irbid, Jordan. Major: Water Resources and Environmental Engineering.

Working experience

- **Assistant Professor** at Civil Engineering Department, The University of Jordan, Amman, Jordan (September, 2013 – present). Responsibilities include teaching various environmental engineering courses, supervising graduation projects, participating in university committees.
 - **Assistant Professor** at Civil Engineering Department, Al-Isra Private University, Amman, Jordan (June 2010 – September, 2013). Responsibilities include teaching various water resources and environmental engineering courses, supervising graduation projects, participating in university committees.
 - **Adjunct faculty** for Civil engineering Department at Jordan University of Science and Technology, Spring 2012.
 - **Postdoctoral Fellow**, April, 2009 – April, 2010, in the Geology and Geological Engineering Department at Colorado School of Mines, Golden, Colorado, USA. Responsibilities included building a coupled hydrological-atmospheric model for the San Joaquin Basin (Central Valley), California and studying interaction between subsurface-surface-atmospheric parameters. Software used is ParFlow for simulating groundwater and surface water and Community land model (CLM) and Weather Research Forecasting model (WRF) for surface interaction and atmospheric forcing. The work evaluated the groundwater system in the San Joaquin basin, the surface water hydrology, and the water and energy interactions between the surface and subsurface. The uniqueness of this work comes from simulating effectively a huge basin at high resolution and including mountains and flat terrain.
 - **Graduate Research Assistant**, August 2006 – March 2009, in the Civil, Environmental and Construction Engineering Department at University of Central Florida, Orlando Florida. Work included investigating spontaneous fires in
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landfills, waste piles and bioreactors, designing landfills including landfills applying waste reduction and recycling strategies, conducting a survey filled by landfill operators and owners, diagnosing landfill fires causes and conditions, assessing landfill operators response to landfill fires and extinguishing methods used, performing solid waste characterization study, and modeling landfill thermal behavior

- **Graduate Research Assistant**, May 2003- May 2004, at Jordan University of Science & Technology (J.U.S.T), Irbid, Jordan. (Project: Modeling Groundwater Flow and Contaminants Transport).
Work included simulating 3-D movement of ground water for two aquifers in a three overlaid aquifer system with a surface area estimated to be about 12,700 km². Then, results from ParFlow model were coupled with SLIM-Fast to simulate solute movement. Duties included assessing solute transport, water age and flow routes
- **Graduate Research Assistant**, August 2002 – April 2003, in the Civil Engineering Department at Jordan University of Science & Technology (J.U.S.T), Irbid, Jordan. (Project: Treatment of Grey Water Using Subsurface Constructed Wetland and Impact of Treated Grey Water on Soil and Vegetation).
Work included construction of subsurface constructed wetland, construction of grey water collection and irrigation systems, operation and maintenance of the hydraulic system, sampling and data collection.

Publications:

- Shadi Moqbel, Debra Reinhart and Ruey-Hung Chen, “Factors Influencing Spontaneous Combustion of Solid Waste” Waste Management (2010), Vol. 30, p 1600-1607.
- Shadi Moqbel, Debra Reinhart and Ruey-Hung Chen, “Spontaneous Combustion Fires in MSW Landfills: Energy Consideration” Eurasia Waste Management Symposium Proceedings (2011).
- Shadi Moqbel and Debra Reinhart, “Spontaneous Landfill Fires: Investigation and Simulation” 5th Jordanian International Civil Engineering Conference proceedings, Amman, Jordan (2012).
- Amin Almasri and Shadi Moqbel, “Numerical Evaluation of AASHTO Drag Force Coefficients of Water Flow around Bridge Piers”, Journal of Engineering Materials and Technology, (Accepted for publication).

Conferences:

- Shadi Moqbel & Debra Reinhart, “*Behavior of Landfills Leading to Spontaneous Combustion*”, at the 5th Intercontinental Landfill Research Symposium (ICLRS), Copper Mountain, Colorado, USA, September 10-12, 2008.
 - Shadi Moqbel, Reed Maxwell, Andrew F. B. Tompson, Jeff L. Wagoner, Kayyum Mansoor, Steve Smith, Carol Woodward, Julie Lundquist, and Jeffrey Mirocha, “Integrated Hydrologic Modeling of the Greater San Joaquin River Basin, California”. 2009 AGU Fall Meeting, San Francisco, California, USA, December 14-18, 2009.
 - Shadi Y. Moqbel, Reed M. Maxwell, Andrew Tompson, Jeffery Wagoner, Kayyum Mansoor,; Steven Smith, Carol Woodward,; Jeffrey Mirocha, Julie Lundquist. Climate Change Effects On the Greater San Joaquin River Basin,
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California. 2010 Groundwater Summit, Denver, Colorado, USA, April 11-15, 2010.

- Shadi Moqbel, Debra Reinhart and Ruey-Hung Chen, “Spontaneous Combustion Fires in MSW Landfills: Energy Consideration” Eurasia Waste Management Symposium (2011).
- Shadi Moqbel and Debra Reinhart, “Spontaneous Landfill Fires: Investigation and Simulation” 5th Jordanian International Civil Engineering Conference, Amman, Jordan (2012).
- Amin Almasri and Shadi Moqbel, “Numerical Evaluation of drag coefficient of flow around different bridge piers shapes”, Multi-physical solutions for harsh environments: Computations and Experiments, Seoul, Korea, March 21-22, 2016.

Funded Projects:

- Evaluating the use of MSW continuously aerobic bioreactor landfill as alternative energy source, Funded by Deanship of Scientific Research at the University of Jordan. Fund: 20,000 JOD. PI: Shadi Moqbel.
- Studying the viability of composting food waste at the University of Jordan. Funded by Deanship of Scientific Research at the University of Jordan. Fund: 6,050 JOD. PI: Shadi Moqbel

Membership

- Air and Waste Management Association
- Jordanian Engineers Association.

Awards & certificates

- Honor student at Jordan University of Science and Technology, 2000.
 - J. W. Fulbright Scholarship – US Department of State (2004-2006) for pursuing PhD in Environmental Engineering at the University of Central Florida
 - Air and Waste Management Association - Florida section scholarship (2006), 3rd place.
 - 3rd place Poster Award at the 5th Intercontinental Landfill Research Symposium (ICLRS), Copper Mountain, Colorado, USA, September 10-12, 2008
 - Graduate Teaching Assistance (GTA) Certificate from University of Central Florida (2008)
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