

Tamer Eshtawi, Ph.D.

General information

Name:	Tamer
Surname:	Eshtawi
Nationality:	Palestinian
Sex:	Male
Date of Birth:	06-April-1979
Interest fields	Hydrologic modeling Water resources planning Roads design and hydrology analysis Land use and water interaction (analysis and modeling) Water and environmental engineering Civil engineering aspects

Education:

2012 – 2015	Ph.D. degree (2015), Bonn University - Germany, Hydrology and water resources. “Integrated modeling of urban landuse and water resources”.
2004 – 2006	M.Sc. degree (2006) in Civil Engineering, Water Resources & Environment Engineering, Average cumulative point 90.5% (Jordan University of Science and Technology - Jordan).
1997 – 2002	B.Sc. degree (2002) in civil engineering, Average cumulative point 90.49% (Islamic University of Gaza-IUG).

Academic experience:

2015 – To date	Assistance professor in Water resources – Department of Engineering, Planning and GIS – University College of Applied Sciences – Palestine. Conducting scientific research and teaching in water resources, infrastructure planning, hydrological information system, and sustainable development planning are the main tasks.
2012 – 2015	Junior researcher – Center for Development Research (ZEF) – Bonn University – Germany. Working on topics related to water and environmental studies.

2010 – 2012	Instructor at Engineering Science and Planning Department – University College of Applied Science – Gaza, Palestine. Teaching the following courses: Environmental Engineering, Water and wastewater treatment, Environmental planning, and Applies statistics.
2006 – 2008	Instructor at Applied Engineering and Urban Planning College – University of Palestine – Gaza. Teaching the following courses: Fluid Mechanics, Hydraulic, Statistics, and Environmental Engineering.
2004 – 2006	Teaching assistant in water resources and environment engineering field – Civil Engineering Department (Jordan University of Science and Technology – Jordan).
2002 – 2004	Teaching assistant in civil engineering department (IUG - Palestine) for the following courses: fluid mechanics, hydraulics, structural analysis, transportation, and sanitary engineering. Coordinator of water and hydraulic laboratory - IUG.

Practical experience

Working as a Water and Environmental Engineer (hydraulics, sanitary, and hydrology fields):

2015	Smart and optimized urban water system (urban landuse and water resources integration) in the context of integrated modeling, submitted concept to USAID, EMCC team. (The concept was initially accepted).
2012	Project director and Hydraulic Engineer, the modification of Khanyounis Temporary Wastewater Treatment Plant – Engineering and Management Consulting Center (EMCC) team Hydraulic Engineer, Design of Major Water Supply Project, (design of water supply network in different areas in the Gaza Strip with an estimated total length of about 5 km and wastewater network in the Swedish Camp in Rafah) – EMCC team Desalination system engineer for a proposed desalination plant (Al-Shati area – Gaza) – EMCC team Environmental and Social Impact Assessment (ESIA) and Management Plan (ESMP) of Gaza Water Supply Rehabilitation and Expansion Project – Engineering and Management Consulting Center (EMCC) team

- 2011 Hydraulic Engineer, Emergency Water Supply project, Beit Hanoun – Gaza area – EMCC team
- Hydraulic and sanitary engineer, Wadi Gaza village – development plan study comprising analysis and development of a preliminary design for a proposed future modification in water supply, central desalination plant, and new wastewater network as well as a local wastewater treatment plan - EMCC team
- 2010 Director of Licensing and Monitoring Regulation and Guidelines for Private Desalination Plants and Water Vendors project – EMCC team. This task comprises design and system evaluation for more than 10 main private desalination plants
- Trainer for the UNRWA design staff regarding SewerCAD and StormCAD softwares – Association of Engineering Gaza
- 2009 Water Engineer, developing a coastline protection proposal in the Gaza strip using Groins system (the proposal got the first rank in the technical evaluation)
- 2009 Sanitary engineer – Rafah wastewater treatment plant project – initial design of the treatment plant using bio-tower system.
- 2006 Hydrological and hydraulics Engineer in Kufranja Dam Project team (Jordan) – Jordan University of Science and Technology
- 2004 Trainer of Hydraulics Model (EPANET) in Continuing Education Center – IUG

Working as a Data analyzer for the following studies:

- 2015 “The Prospects of Organic Farming in Bhutan” a doctoral study by Dr. Sonam Tashi – Center for development research (ZEF) – Bonn University. Analyzing data related to Socio-economic aspects as well as chemical soil properties – Bhutan
- 2012 Socio-economic Survey of Cash Transfer Program Beneficiaries (follow-up survey) – Yemen, – Engineering and Management Consulting Center (EMCC) team (Client: World Bank)
- Socio-economic Survey of Cash Transfer Program Beneficiaries – Gaza, EMCC team (Client: World Bank)

- 2011 Socio-economic Survey of Cash Transfer Program Beneficiaries (baseline survey) – Yemen, EMCC team (Client: World Bank)
- 2009 Development Planning of Wadi Gaza village project – EMCC team
Licensing and Monitoring Regulation and Guidelines for Private Desalination Plants and Water Vendors project – EMCC team
- 2006 Kufranja Dam Project team (Jordan) – (Jordan University of Science and Technology)
(Assessment of minimum householder water requirements and incidence of waterborne diseases among children less than years of age) project team in (Queen Rania Al-Abdullah Centre for Environmental Science & Technology - Jordan)

Research and publication

Published papers:

Eshtawi, T., M. Evers, B. Tischbein and B. Diekkrüger. 2016. Integrated hydrologic modeling as a key for sustainable urban water resources planning. *Water Research*. doi:10.1016/j.watres.2016.05.061.

Eshtawi, T., Evers M., and Tischbein B., 2015. Quantifying the impact of urban area expansion on groundwater recharge and surface runoff. *Hydrological science Journal*. doi:10.1080/02626667.2014.1000916.

Eshtawi, T., Evers M., and Tischbein B., 2015. Potential impacts of urban area expansion on groundwater level in the Gaza Strip: a spatial-temporal assessment. *Arabian Journal of Geoscience*, doi:10.1007/s12517-015-1971-8.

Kanyoka, P. and **Eshtawi, T.**, 2013. Analyzing the trade-offs of wastewater re use in agriculture: An Analytical framework. *ZEF website*, <http://www.zef.de/index.php?id=2362>.

Hamad J., **Eshtawi, T.**, Abushaban, M., and Habboub, M., 2012. Modeling the Impact of Land-Use Change on Water Budget of Gaza Strip. *Journal of Water Resource and Protection*, 4(6), 325 - 333.

Abdulla, F., **Eshtawi, T.**, and Assaf, H., 2009. Assessment of the Impact of Potential Climate Change on the Water Budget of a Semi-arid Watershed: The Case of the Zarqa River Watershed, Jordan. *Water Resources Management*, 23(10), 2051 - 2068.

Abdulla, F. and **Eshtawi, T.**, 2007. Application of Automated Geospatial Watershed Assessment Tool (AGWA) to evaluate the sediment yield in a semi-arid region: case study kufranja basin-Jordan. *Jordan journal of civil engineering*, 1(3), 234 - 244.

Academic achievements:

- DAAD (German Academic Exchange Service) scholarship holder 2012 – 2015 (Doctoral degree study)
- DAAD scholarship holder 2004 – 2006 (Master degree study)
- Excellence scholarships 1997 – 2002 (Bachelor degree study)
- The first rank regarding “interdisciplinary - term paper, batch 2012” (very good, 89), Center for Development Research (ZEF) – Bonn university - Germany. <http://www.zef.de/index.php?id=2362>
- The first rank regarding “disciplinary module exam” (excellent, 90.4), Center for Development Research (ZEF) – Bonn university - Germany.
- The first rank (Average cumulative points) among my classmates during bachelor and master study.

Computer skills:

- Hydrological models: Hydrological Simulation Program-Fortran (HSPF), Soil and Water Assessment Tool (SWAT), Hydrological model HEC-HMS
- Statistics: SPSS, STATA, R studio
- Management Engineering: MS PROJECT
- Graphical Software: AUTOCAD 2008, 3D HOME
- GIS software: ArcGIS
- Hydraulic software: WaterCAD, SewerCAD, EPANET2, STORMNET
- Mathematical software: DERIVE 6
- Programming language: MATLAB 7
- Structural Engineering: SAP2000, STAADpro2007, Safe, PROKEN
- Microsoft Word, Microsoft Excel, Microsoft Power Point

Languages:

English language: Good speaking, very good writing, very good reading.
Special course in TOEFL test preparation
Special course in conservation and pronunciation English language

German language: Finishing the first two levels from six level of German language
Level: **A1, A2, B1, B2, C1, C2**

Arabic language: Very good speaking, very good writing, very good reading

I certify that the previous information is right

1-3-2017