

Wissam Hayek, PhD.

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Education & Professional Certification:

2018 - PhD. In Environmental Management and Environmental Economics

Department of Environment, University of York, York, England

PhD thesis title: "Assessing Integrated Coastal Zone Management (ICZM) Status in Aqaba: A Participatory Geographic Information System (PGIS) Approach".

The thesis evaluated the efficiency of implementing ICZM along Aqaba coastline using a semi-structured interview with all the ICZM players such as officials, researchers, and locals. In addition, a participatory Geographic Information System was implemented for the first time in the region to develop a coastal profile that includes marine resources, activities, pressures, impacts as well as coastal conflicts among the various players. Lack of enough knowledge and weak level of non-officials' participations were the main challenges perceived by the stakeholders.

2009 - MSc. In Environmental Science and Management

University of Jordan / Faculty of Graduate Studies, Amman, Jordan (Grade: Excellent – 3.94)

MSc. Thesis title: "Anaerobic Biological Treatment for Amman Slaughterhouse Wastewater".

2005 - B.Sc. In Land and Water and Environmental Management – Environmental Resources Engineering

Hashemite University / Faculty of Environmental Resources, Al-Zarqa, Jordan

Professional Experience:

May 2018 – Present: Assistant Professor – Faculty of Marine Sciences – University of Jordan Aqaba - Jordan

Teaching various modules in the environmental field including

- Environmental Impact Assessment (EIA), which introduces this methodology as an important tool for efficient environmental management in the decision-making process.
- Geographic Information System (GIS), which provides the basic concepts and methods of expression using the ArcGIS software and how to prepare maps from available spatial data. It also presents all the techniques for applying spatial analysis.
- Ecology, which provides an overview about humans and sustainability, the complex relations between science, ecological principles, and sustainability. The course also sheds the light on biodiversity, its evolution, and its relationships with species interaction.
- Environmental Culture, which presents the fundamentals of the natural ecosystem and its relations with human activities. It also provides an overview about natural and human-made environmental problems such as solid waste accumulation and air pollution.
- Research Methods, that provides the basic steps in conducting research starting with identifying the research problem, how to prepare literature review, designing the methodology, data collection, how to discuss the results and write the conclusion, and ending with how to present the research in oral and written ways.
- Biostatistics, that provides the elementary steps required for doing statistical analysis, specifically in the biological field.
- Environmental Pollution, provides background about pollution, its types, and sources, and presents the various types for environmental pollution. It gives the reasons behind each type of pollution, their consequences, and how to solve them.

2014 – 2016: Teaching Assistant – University of York Yorkshire - UK

- Assisting in teaching Geographic Information Systems (GIS) and Spatial Analysis modules for both undergraduates and postgraduates.

2011 – 2013:

Projects Manager – Ministry of Environment

Amman - Jordan

- Evaluating proposed environmental projects submitted to the Jordan Environmental Fund from governmental and private sectors as well as NGOs.
- Managing the administrative and financial issues of the fund.
- Coordination with the board members.
- Reviewing environmental legislations related to the scope of the fund's work.

2010:

Consultant – Eco-Consult – New Directions

Amman - Jordan

- Environmental Impact Assessment for the Feasibility Study for North Shuna – South Shuna Road - Client: Ministry of Public Works and Housing

Responsible for data collection, field surveys, coordination between stakeholders, analysis of environmental and socioeconomic impacts, preparing the mitigation and monitoring measures, in addition to the environmental management plan (EMP), and participated in the social and economic studies for the rehabilitation of Road 65 and according to JICA and World Bank requirements.

- Environmental Impact Assessment for Najwa Project in Wadi Rum, Jordan - Client: Najwa Tourism Investment Company

Responsible for data collection, coordination between the stakeholders, field surveys, impacts analysis and preparation of the Mitigation and Monitoring plan.

- Sustainable Management of Available Resources with Innovative Technologies (SMART) - Jordan Valley - Jordan

Responsible for material preparation and translation, in addition to conducting social interviews in Wadi Maghar with the BDZ Team.

2009:

Project Implementing Coordinator Assistant – Ministry of Environment and USAID

Amman - Jordan

- Interagency Agreement between U.S. EPA and the Jordan Ministry of Environment. The main aim of the project was capacity building for all the stakeholders in Jordan in the field of environmental inspection and litigation.
- Responsible for monitoring project plans, schedules, budgets and expenditures.
- Organizing and participating in stakeholders meetings, documenting and follow-up on important actions required for the project, and reviewing presentation materials for the meetings.

2008:

Executive Manager - Friends of Environment Society (FOES)

Amman - Jordan

- Managing administrative and financial issues for the FOEs, including proposal writings and fund raising.

2006 - 2007:

Teaching and Research Assistant – University of Jordan

Amman - Jordan

- Environmental engineering module, Faculty of Engineering and Technology.
- GIS Modules, Faculty of Agriculture, University of Jordan.
- Fundamentals of soil science, Faculty of Agriculture, University of Jordan.

2006:

Executive Manager - Friends of Environment Society (FOES)

Amman - Jordan

- Managing administrative and financial issues for the FOEs, including proposal writings and fund raising.

2005:

Field Surveyor – Ministry of Environment and UNDP

Amman - Jordan

- Integrated Waste Management for the Olive Oil Pressing Industries in Lebanon, Syria and Jordan.

Selected Consultancy & Training Work

Jan 2018 – Sep 2018: Team Member/ - LIFE++ Project - University of York

Yorkshire - UK

The aim of the project was to restore the bogs of Thorne Moors Special Area of Conservation and Hatfield Moors which are considered the UK's largest lowland raised bog complex. My responsibilities included analysis of the results and preparation of the GIS maps.

Jan 2013 – June 2013: Trainer – Water Conservation and Management project – Public Action for Water, Energy and Environment (PAP), funded by USAID

Northern Jordan Valley - Jordan

The aim of the project was to restore the bogs of Thorne Moors Special Area of Conservation and Hatfield Moors which are considered the UK's largest lowland raised bog complex. My responsibilities included analysis of the results and preparation of the GIS maps.

Selected Training and Courses and Supplemental Education attended:

A) International Training

Title	Location / Date	Lecturer/Organizer
Advanced International Training Programme in "Integrated Sustainable Coastal Management" for the Middle East and North Africa region (Phase Two)	Tunisia 2016	Programme in Integrated Sustainable Coastal Development – MENA region and SIDA
Advanced International Training Programme in "Integrated Sustainable Coastal Management" for the Middle East and North Africa region (Phase One)	Sweden 2015	Programme in Integrated Sustainable Coastal Development – MENA region and SIDA
Summer School: GSS-2014: Biodiversity theory and practice	Greece 2014	University of Ioannina
English Writing	UK 2014	Centre for English Writing Teaching – University of York
Descriptive Statistics and Exploratory Analysis	UK 2014	Math Department – University of York
Professional Development Tools Getting Published in Science Giving Feedback on Students Work Career Planning Basic Presentation Skills Creativity and Problem Solving Social Media Managing Your Research Project Teaching Small Groups	UK 2013 - 2014	Research and Development Team – University of York
Environmental Policy Environmental Economics Environmental Economics Research Skills and Statistical Analysis GIS and Spatial Analysis	UK 2013 - 2015	Environment Department – University of York

B) Local Training

Title	Date	Lecturer/Organizer
Environmental Litigation Training Workshop 2nd Environmental Investigation Training Workshop (TOT) 3rd Environmental Inspection Training Workshop (TOT) 2nd Environmental Inspection Training Workshop (TOT)	2009	U.S.EPA and Ministry of Environment
Development of Environmental Inspection Manual Training Workshop	2009	IFC and Ministry of Environment
Advocacy Workshop, Partners	2009	Jordan with the cooperation of Netherlands Embassy

Regional Training Workshop on Scientific Methodology and Proposal Writing	2008	Inter-Islamic Network on Water Resources Development and Management (INWRDAM) and IFS
International workshop on Grey water Reuse and proposal writing	2007	International Foundation for Science
Environmental Audit of Olive Mills and their Complementary Industries, Training Of Trainers (TOT) for integrated Waste Management for Olive Oil Pressing Industries in Lebanon, Syria and Jordan.	2007	UNDP and Ministry of Environment
Geographic Information System – Beginners Level	2007	University of Jordan, Deanship of Students Affairs, 30 Hours
International Computer Driving License	2006	Syllabus Version: 4.0
Auto CAD Course	2005	Geneva Cultural Center, 48 Hours.
Microsoft Office Course	2005	Geneva Cultural Center, 78 Hours.

Foreign Languages & Computer Skills:

- Mother tongue: Arabic.
- Foreign languages; English / Excellent knowledge (Reading, Writing & Speaking); basic knowledge in Italian and German languages (beginner level).