نبذة عن الاستاذ الدكتور عامر سلمان أستاذ الاقتصاد الزراعي وإدارة الأعمال الزراعية في الجامعة الأردنية

الاستاذ الدكتور عامر سلمان له خبرة في مجال تخصص الاقتصاد الزراعي حوالي 27 عاما ويمتلك سيرة أكاديمية وعلمية متميزة بما قدمه من خبرات علمية وعملية للعديد من المؤسسات الرسمية والمؤسسات الأكاديمية والتدريبية على المستويين الوطني والعربي والعالمي وهو حاصل على الشهادة الجامعية الأولى في الاقتصاد الزراعي والارشاد من الجامعة الاردنية (1987) ودرجة الماجستير في الاقتصاد الزراعي من الجامعة الاردنية (1990) والدكتوراه في الاقتصاد الزراعي تخصص اقتصاديات المياه والري (1994) من جامعة هو هنهايم- المانيا.

وللدكتور سلمان مجموعة من الخبرات الأكاديمية من أهمها عمله محاضرا متفرغا في قسم الاقتصاد الزراعي وادارة الاعمال الزراعية في الجامعة الاردنية خلال الفترة 1994-1995 واستاذا مساعدا (1996-2001) وأستاذا مشاركاً في الجامعة الاردنية (2001-2007) وأستاذا في قسم الاقتصاد الزراعي وادارة الاعمال الزراعية في الجامعة الاردنية منذ العام 2007 ولغاية تاريخه. أضافة الى كونه حاليا رئيس لجنة المياه والبيئة وعضو اللجنة العلمية في صندوق البحث العلمي - وزارة التعليم العالي منذ العام 2012. والخبير الاقتصادي في لجنة التعويضات الاقتصادية والبيئية في وزارة الخارجية في الفترة (2003-2005). والخبير الاقتصادي لدراسة التعويضات البيئيه لحرب الخليج الثانية.

هذا ويتمتع الدكتور سلمان بمجموعة من الخبرات الإدارية الهامّة حيث شغل منصب مدير مركز البحوث والدراسات المائية والبيئية في الجامعة الاردنية (2010-2011) ورئيساً لقسم الاقتصاد الزراعي وإدارة الاعمال الزراعية في الجامعة الاردنية (2009-2010) ومساعدا لعميد كلية الزراعة لشؤون التطوير والجودة (2004-2004). وعضوا في مجلس كلية الزراعة للعديد من السنوات. كما انه يتكلم بطلاقة اضافة الى اللغة العربية اللغتين الانجليزية والالمانية.

ومن جانب آخر للدكتور سلمان دور بارز في مجال البحث العلمي على الصعيد الوطني والإقليمي والدولي يتركز في نشر اكثر من (30) بحثاً علمياً في مجلات علمية عالمية واقليمية مفهرسة ومحكمة وفصول في كتب علمية منشورة عالميا وأكثر من (40) ورقه علمية في مؤتمرات عالمية و إقليمية في حقل اقتصاديات الموارد المائية والطبيعية وشارك في حوالي (50) مؤتمر علمي في مختلف دول العالم. تجدر الإشارة إلى أنه للدكتور سلمان اهتمامات كبيرة في مجالات تنظيم ورش العمل والندوات المتخصصة في مجالات تقييم المشاريع الزراعية واقتصاديات المياه والبيئة على المستويين الوطني والاقليمي. وقد قام بتقييم ابحاث عديدة للعديد من المجلات العلمية العالمية والمحلية والاقليمية المفهرسة لاغراض النشر.

وشارك الدكتور سلمان في خدمة المجتمع في العديد من الدراسات والاستشارات كرئيس فريق او كعضو فريق في مجال الجدوى الاقتصادية والمالية للسدود كسد الوحدة وسدود الواله والموجب والتنور حيث كان عضوا في لجنة السدود في وزارة المياه والري إضافة الى القيام للعديد من الدراسات الاقتصادية ومشاريع المياة لصالح وزارتي المياة والري والزراعة.

كما قام الدكتور سلمان بالمشاركه في العديد من المشاريع الدولية الممولة من الاتحاد الاوروبي ووزارة Harvard Middle & MEDITATE & SMART & GLOWA دعم البحث العلمي الالمانية مثل مشاريع East Water Projec . أضافة الى ذلك قام بالعديد من الاستشارات في مجال الاقتصاد الزراعي واقتصاديات المياه لصالح العديد من المؤسسات الدولية منها ,IFAD, FAO, USAID, INSTRUPA.

CURRICULUM VITA 2013

Prof. Dr. Amer Salman

Current Academic Rank: Full Professor Current University: University of Jordan Current Faculty: Faculty of Agriculture

Current Department: Department of Agricultural

Economics and Agribusiness

Specialization: Agricultural Economics and Agribusiness -

Water Resources and Environmental Economist

Current Position: Professor of water Economics

Marital Status: Married, 4 Children

Date & Location of Birth: Born in Amman in April 3rd ,1965

Permanent Address: P.O. Box: 13204, Amman 11942 Jordan

Telephone:- 00962-7- 99203222

Email: <u>asalman@ju.edu.jo</u> and/or <u>Drsalmanamer@yahoo.com</u>



Mr. Salman has more than 27 years of experience in agricultural economics. He is capable to conduct studies in the fields of water economics, allocation and pricing and management, as well as in the field of environmental and socio-economic aspects and project appraisal for many dams and water projects. He performed extensive economic analyses for most of the dams in Jordan Rift Valley at the request of the Jordan Valley Authority. In addition, his Ph.D. dissertation was in the field of irrigation water economics of the Jordan Valley. He published several articles appeared in Agricultural Water Management, Agricultural Systems, Journal of Arid Environment, Quarterly Journal of International Agriculture, Water Policy. He is a coauthor of the book Water Resources in Jordan (Evolving polices for development, the environment and conflict resolution), Editor: Munther J. Haddadin, Resources for The Future, Washington DC, and a contributor in a book Liquid Asset published by Resources for The Future.

He has been recruited in many international funded research projects as a team leader for Harvard Middle East Water Project (leader for the economic group) and MEDITATE project, GLOWA Jordan River II, GLOWA Jordan River III, and SMART II and as researcher with many other international agencies such UNDP, World Bank, AFD, ICARDA, GTZ, IFAD, FAO, USAID, and INSTRUPA. For two years, he served as economic task leader of the Jordanian team of Harvard Middle East Water Project. He has excellent computer programming skills, with primary expertise in mathematical programming and economic modeling. He offered teaching courses in mathematical programming, agricultural statistics, production economics of plants and animals, applied agricultural economics, project evaluation, econometrics, regression analysis, mathematical economics, water economics and water allocation and pricing. In addition, he is supervising many M.Sc. and Ph.D. students in different fields of water sector. last ten years, he has been recruited in many EU funded research projects as a team leader or as researcher such as Meditate, GLOWA Jordan River, SMART and Harvard Middle East Water Project.

ACADEMIC QUALIFICATIONS

First University Degree: (Bachelor's or equivalent)

Degree: Bachelor's Degree. (B.Sc.), Date degree awarded: 1987

Faculty: Faculty of Agriculture. University of Jordan, Amman/ Jordan

Specialization: Agricultural Economics and Extension

Second University Degree: (Master's or equivalent)

Degree: Master's Degree. (M.Sc.), Date degree awarded: 1990

Faculty: Faculty of Agriculture. University of Jordan, Amman / Jordan

Specialization: Agricultural Economics

Title of Thesis: Economic Analysis and Feasibility Study of Dairy Cattle Farms in Amman-

Balqa Region in the Hashemite Kingdom of Jordan

Third University Degree: (Doctorate or equivalent)

Degree: Doctorate Degree (PhD) Date degree awarded: 1994

Faculty: Faculty of Agricultural Sciences, University of Hohenheim, Stuttgart / Germany

Specialization: Economics of Water and Irrigation

Title of Thesis: On the Economics of Irrigation Water Use in the Jordan Valley

LANGUAGES

Language proficiency		Reading	5	Writing Conve		versatio	rersation		
	Excellent	Fair	Weak	Excellent	Fair	Weak	Excellent	Fair	Weak
Arabic	X			X			X		
English	X			X			X		
German	X				X		X		

COMPUTER USE

Name of Software	Use of Software
XA, BLP88,	Mathematical Programming and Operation Research
LINDO, TORA	
Microsoft Office	Typing and acquiring graphics from other software's
Package all versions	
Microsoft Office	Econometric techniques and building macros and For project
Software	appraisal (Economic and financial Feasibility Studies), graphics &
	Mathematical Programming, For the purposes of lecturing using
	Data Show
SPSS	Statistical Analyses and advanced techniques in regression analyses.
TSP	For advanced Econometric and Statistical Analyses

EMPLOYMENT HISTORY					
Institution	Institution Peri		Job Title	Nature of Work	Type of
(place of work)	From	То	(Academic Rank)		Work
	Sep	Jan	Lecturer	Teaching and	Full Time
University of Jordan	1994	1995	PhD	Research	
	Feb	Sep	Assistant Professor	Teaching and	Full Time
University of Jordan	1996	2001		Research	
	Oct	April	Associate	Teaching and	Full Time
University of Jordan	2001	2007	Professor	Research	
University of Jordan	Sep	Sep	Dean's Assistant	Development	Full Time
	2004	2007		Affairs	
University of Jordan	Dec	Nov	Department's	Teaching,	Full Time
	2009	2010	Chairman	Research and	
				Management	
University of Jordan	June	August	Director of water		
	2010	2011	and Environment	Management	Full Time
			Research and Study		
			Center		
Scientific Support	May	Present	Head of Water &	Research	Part Time
Fund - Ministry of	2012		Environment		
Higher Education			Committee		
Scientific Support	May	Present	Member in the	Research	Part Time
Fund - Ministry of	2012		Scientific		
Higher Education			Environment		
			Committee		
University of Jordan	May	Present	Full Professor	Teaching and	Full Time
	2007			Research	

Participation in International Projects

- Badia Benchmark Project (2000-2006): Team Leader of Socioeconomic components of Community-Based Optimization of the Management of Scare Water Resources in Agriculture in West Asia and North Africa implemented by International Center for Agricultural Research in the Dry Areas ICARDA. National Center for Agricultural Research And Technology Transfer NCARTT
- 2. **Harvard Middle East Water Project** (1998-2001): Participate in. Analyzing agricultural demand for water with an optimizing model. Lead development of decision support models of the water economies of Jordan. Participate in the development of the Agricultural Sub-model (AGSM), SAWAS which allocate Water in an optimal way using different water qualities for different seasons
- 3. **MEDITATE project** (2002-2006): Participation as core investigator for Cost-effectiveness analysis of.**ME**diterranean **D**evelopment of Innovative Technologies for integrAted waTEr management. BRGM. Water division, RMD Unit, Montpellier. Project co-funded by the European Commission within the Sixth Framework Programme (2002-2006) The MEDITATE project is about integrated water management for limited water resources in Mediterranean countries, considering specifically the use of alternative water resources such as submarine springs, desalination and/or water reuse including development of a decision support system that will allow to integrate different types of knowledge (from physical to socio-economic fields), inclusive all social actors, in a decision making processes
- 4. **GLOWA II** (2006-2008): GLOWA Jordan River An integrated approach to sustainable management of water resources under global change. Implemented by Eberhard-Karls-University of Tübingen.

- Member of Steering Committee of GLOWA Jordan River Project Phase II and for the period (2006-2008).
- The Story and Simulation (SAS) approach, which combines expert and stakeholder knowledge with the scientific methods from the other projects in GLOWA JR, to derive comprehensive and coherent scenarios on global change impacts and possible adaptation strategies; and
- The Water Evaluation and Planning tool (WEAP) with a GIS, for simulation and visualization of
 water availability, demand and quality for a range of global change scenarios and the consequences
 of various adaptation measures for the water system.
- Sub-Project 8: Water quality issues, lower Jordan River
- 5. GLOWA III: GLOWA: Jordan River Project Phase III (2009-2011). Member of Steering Committee of GLOWA Jordan River Project Phase III for the period (2009-2011). Coordinator of the of GLOWA Jordan River Project Phase II and Phase III for Jordan for the following subprojects:
 - Project 1: Integration and communication of strategies (Project 1.1: Scenario analysis of strategies, Project 1.2: WEAP analysis, and Project 1.3: Communication of results).
 - Project 2: New water: This project deals with the basic question, "What is the potential for new (blue) sources of water to address current and future needs of people and ecosystems in the region.
 - Project 3: Green water management: Water and land interactions in agricultural and natural systems, this project includes the following subprojects: Project 3.1: Climate and land use change effects on natural and semi-natural ecosystems and their feedback on the hydrological system, Project 3.2: Assessing the socio-economic benefits of ecological system services and their integration into models of optimal land-use under climate change, Project 3.3: Integrated modeling of land-use change and environmental impacts
- 6. SMART Project Phase II (2010-2012): SMART II Integrated Water Resources Management in the Lower Jordan Rift Valley: SMART II) Sustainable Management of Available Water Resources with Innovative Technologies with Karlsruhe Institute of Technology (KIT). Work package number 7 (Socio-Economic Analysis) Activity type: Research, Development and Implementation. Objectives of Socio-Economic Analysis. Quantify costs and benefits of SMART-IWRM technology lines, Rank technologies for the mobilization of additional water at local level in terms of cost-effectiveness, Evaluate alternative IWRM strategies by applying the cost-benefit analysis at watershed level, Assess the financial feasibility of alternative IWRM strategies, Integrate key technologies in quantitative economic models.
- 7. **JORDAN WATER DEMAND MANAGEMENT STUDY**:(June 2010-June 2011). Water demand management in Mediterranean countries: Thinking outside the water box!. Jordan case study. The French Development Agency (AFD. The main objective of the study is to bring economic analysis into Jordan water policy and help prioritizing actions according to their cost-effectiveness.
- 8. UNDP-Climate Change Project (2010-2011). Macro-level Assessment of potential direct and indirect impacts of climate change on socio-economic factors for "Assessment of Direct and Indirect Impacts of Climate Change scenarios on water availability and quality in the Zarqa River Basin". In cooperation between Queen Rania Al-Abdullah Center for Environmental Sciences & Technology (QRACEST) Jordan University of Science and Technology (JUST) & Water and Environment Research and Study Center (WERSC). University of Jordan.

New Finished Research Project

- 1. Water Valuation in Jordan (December, 2011). Water demand management in Mediterranean countries: Thinking outside the water box! Jordan case study. JORDAN WATER DEMAND MANAGEMENT STUDY. Prepared for French Agency of Development (AFD)
- 2. Marco- level Assessment of potential direct and indirect impacts of climate change on socioeconomic factors. For Assessment of Direct and Indirect Impacts of Climate Change scenarios on water availability and quality in the Zarqa River Basin. Submitted to: UNDP-Jordan (2011).

REGIONAL AND INTERNATIONAL RESEARCH PROJECTS

	HEOTOT WEETING THE THOUSE THE PERIOD THOUSE THE				
	Funding Agency	Project Title	Period		
1-	Harvard University and	Harvard Middle East Water Project (Regional Project)	1997-		
	Delft Hydraulics in	development of the Agricultural Sub-model (AGSM),	1998		
	Netherlands	which allocate Water in an optimal way using different			
		water qualities.			
2-	Ministry of Water and	Member in the Development of Water Allocation Models in	2002-		
	Irrigation and US	Jordan Regional project in coordination between University	2004		
	Agency of	of Jordan, Jordan University of Science and Technology			
	international	&Hashemite University			
	Development				
3-	University of Jordan,	Establishment of software for water allocation Model in	2003-		
	USAID, MWI	The Jordan Valley.	2004		
4-	University of Jordan,	Establishment of software for water allocation Model in	2003-		
	USAID, MWI	The Southern Ghors (Safi Ghor).	2004		

NATIONAL RESEARCH PROJECTS

	Funding Agency	Project Title	Period
1-	Deanship of Academic	Measuring the Technical and Allocative Efficiency	2003-
	Research, University of	of Water Use by Vegetable Producers in Jordan	2004
	Jordan	Valley	
2-	Deanship of Academic	The On-Farm Economic Effects of Policies to	2002-
	Research, University of	Remove Restrictions on Resources Acquisition in	2003
	Jordan	The Jordan Valley	
3-	Higher Council for Scientific	Using of Information Systems for Management and	2002-
	Research and Technology	Pricing of Irrigation Water in Jordan Valley	2004

NATIONAL PROJECTS LEADER AND MEMBERSHIP

Project Title	Year
A member and sub-project leader of the socio-economic group in the Jordan	n 1996-
Arid Zone Productivity Project, University of Jordan, Faculty of Agriculture	e. 1998
2. A member in the national committee of dams per request of Jordan Valley	1999-
Authority – Ministry of Water and Irrigation.	2000
3. A member in the project of conservation and sustainable use of dry land Ag	ro- 2000-
Biodiversity in Jordan.	2004
4. A Member in the Development of Water Allocation Models in Jordan. A	2003-
regional project in coordination between University of Jordan, Jordan	2004
University of Science and Technology & Hashemite University, USAID, MY	WI.
5. A Member in the Badia Water Benchmark: Community – Based optimization	on of 2004-
the Management of Scarce Water Resources in Agriculture in West Asia and	d 2006
North Africa, NCARTT and coordination with ICARDA	

CONSULTATIONS AND COMMUNITY SERVICES

No	Institution receiving consultation or services	Nature of consultation or services	Date
1-	GTZ	The Economic Analysis of Producing Selected Vegetables under Certification Scheme for Integrated Pest Management.	1996
2-	INSTRUPA /GTZ	Identification of Jordanian Male and Female Farmers' Needs.	1996
3-	FORWARD /USAID	Cost Tariff Model Study: Calculating the debt service on the whole irrigation system in the Jordan Valley.	1997
4-	Ministry of Water /Jordan Valley Authority	Financial and Economic Feasibility Study of Mujib and Southern Ghors Irrigated Project in Jordan.	1998
5-	Ministry of Water /Jordan Valley Authority	Financial and Economic Feasibility Study of Waleh Dam Project.	1998
6-	Ministry of Water /Jordan Valley Authority	Financial and Economic Feasibility Study of Tannour Dam Project.	1998
7-	Ministry of Water /Jordan Valley Authority	Updating of the Economic Feasibility Study of AL- Wehdah Dam Project in the Jordan.	1998
8-	Ministry of Water /Jordan Valley Authority	The Economic Feasibility of the Reuse of Treated Wastewater in Makrabah Area and in the Northern Jordan Valley.	1999
9-	GTZ /Ministry of Agriculture	Advisory assistance of the ministry of agriculture in establishing Forecasting models Wheat Production In Jordan.	1999
10-	Ministry of Water /Jordan Valley Authority	Updating of the Economic Feasibility Study of AL- Wehdah Dam Project in the Jordan.	1999
11-	FAO /Ministry of Agriculture	Capacity Building in Agricultural Policy and Project Planning, TCP/JOR/0066	2000
12-	World Bank with cooperation of Ministry of Water /JVA	Economic and Financial Assessment of the Jordan Rift Valley, Jordan Rift Valley Improvement Project, Phase A.	2000
13-	FAO /Ministry of Agriculture	The Irrigation Sub-Sector in Jordan: problems, implications and possible solutions	2001
14-	FAO /Department of Statistics	Assistance to the Agricultural Census and the on-going System of Agricultural Statistics, TCP/JOR/0065.	2001
15-	World Bank with cooperation of Ministry of Water /JVA	Economic and Financial Assessment of the Jordan Rift Valley, Jordan Rift Valley Improvement Project, Phase B.	2001
16-	Ministry of Water /Jordan Valley Authority	Updating of the Economic Feasibility Study of AL- Wehdah Dam Project in the Jordan.	2002
17-	The Government	Monitoring, Assessing and Quantifying Damage to	2002

	of Jordan	Agricultural Resources due to Gulf Crisis	
18-	Ministry of	Socio-economist in Study titled Socio-Economic study of	2002
	Agriculture	Agricultural Resource Development Project in Yarmouk	
		Basin". The Regional Centre on Agrarian Reform and Rural	
		Development for the Near East (CARDNE).	
19-	GTZ	Using Seemingly Unrelated Yield and Area Equations to	2002
		Predict Cereal Grain Outputs in Jordan	
20-	FAO /Egypt	Water Pricing And Its Implication In The Irrigated	2002
		Agriculture In Jordan	
21-	GTZ	The economics of photovoltaic pumping system in the	2002
		irrigated agriculture in Jordan.	
22-	FAO /Ministry of	Agricultural Sector Assessment in Jordan over the period	2002
	Agriculture	1980-2000	
23-	Ministry of	Participation of the evaluation of the final draft stage of the	2003
	Agriculture	technical and economic feasibility study for the Agricultural	
	7.51.1	Jordanian Project in Sudan.	****
24-	Ministry of	A member in the National Agricultural Strategic Plan for the	2003
2.5	Agriculture	Irrigated Agriculture in the Jordan Valley.	2004
25-	Jordanian	Participation in "Consulting services for technical and	2004
	Consulting Engineer Company	economic feasibility study and final design of the wastewater	
	Engineer Company for the Ministry of	collection, treatment and effluent reuse for Jerash area" Amman- Jordan	
	Water and	Allinan- Jordan	
	Irrigation		
26-	Jordanian	Participation in "Consulting services for technical and	2004
20-	Consulting	economic feasibility study and final design of the wastewater	2004
	Engineer Company	collection, treatment and effluent reuse for Sukhna area"	
	for the Ministry of	Amman- Jordan.	
	Water and		
	Irrigation		
27-	Social Sciences	Evaluation of a research grant of an assessment entitled "The	2004
	and Humanities	Nile Basin initiative: towards sharing the essential"	
	Research Council		
	of Canada		
	(SSHRC)-		
200	CANADA		2002
28-	Government of	Monitoring, assessing and quantifying environmental	2003
	Jordan	damages to water, agricultural resources, terrestrial and	
		marine ecosystems due to golf crisis in 1990. Section IV:	
		Monitoring, Assessing and Quantifying Damage to	
		Agricultural Resources. Claims for Environmental and Natural Resources Damages. Submitted to Government of	
		Jordan, UNCC.	
29-	Ministry of	Participation in the Study "Cost of Influx of Palestinian	2004
-رے	Foreign Affairs	Refugees into Jordan." (2004). Refugees' Studies Unit,	2007
	i oroigii / urans	Ministry of Foreign Affairs. Jordan	
30-	Ministry of	Participation in the study "The Impact of Palestinian	2003 -
	Foreign Affairs	Refugees on Jordan's Environmental Resources; Agriculture	2005
	- 517-511 / 1114110	and Soils"	
31-	Ministry of	The Impact of Palestinian Refugees on Jordan's	2003 -
	Foreign Affairs	Environmental Resources; Natural Environment &	2005
	<i>5</i>	Biodiversity Rangeland, Forest, Wetland and Wildlife	
		study	
32-	Ministry of	The Impact of Palestinian Refugees on Jordan's	2003 -
	-		

	Foreign Affairs	Environmental Resources; Land Mines	2005
33-	Ministry of	The Impact of Palestinian Refugees on Jordan's	2003 -
	Foreign Affairs	Environmental Resources; Water Resources	2005
34-	Ministry of	The Impact of Palestinian Refugees on Jordan's	2003 -
	Foreign Affairs	Environmental Resources; Air Quality	2005
35-	Ministry of	The Impact of Palestinian Refugees on Jordan's	2003 -
	Foreign Affairs	Environmental Resources; Cultural Heritage	2005
36-	Ministry of	The Impact of Palestinian Refugees on Jordan's	2003 -
	Foreign Affairs	Environmental Resources; Marine and Risk Assessment	2005
37-	Ministry of	The Impact of Palestinian Refugees on Jordan's	2003 -
	Foreign Affairs	Environmental Resources; Solid and Hazardous Waste	2005
38-	Ministry of	Technical and Financial Feasibility Study of Horticultural	2006
	Agriculture	Marketing Company in Jordan (2006). Prepared for Ministry	
		of Agriculture. ECO Consult (Amman, Jordan). Kelly	
		Harrison Associates (Virginia, USA)	
39-	UNDP-Jordan	Marco- level Assessment of potential direct and indirect	2011
		impacts of climate change on socio-economic factors. For	
		Assessment of Direct and Indirect Impacts of Climate	
		Change scenarios on water availability and quality in the	
		Zarqa River Basin	
40-	UNDP-Jordan	Micro-Level Assessment of Potential Direct and Indirect	2011
		Impacts of Climate Change on Socio-Economic Status in	
		Zarqa River Basin For the study Assessment of Direct and	
		Indirect Impacts of Climate Change scenarios on water	
		availability and quality in the Zarqa River Basin	

UNIVERSITY TEACHING: COURSES TAUGHT

Institution	Title of course	Language of
		instruction
University of Jordan	Principles of Agricultural Economics	English
University of Jordan	Agricultural Statistics	English
University of Jordan	Statistics for Agribusiness	English
		(Graduate)
University of Jordan	Mathematical Economics	English
University of Jordan	Agricultural Econometrics	English
University of Jordan	Production Economics of Animal	English
	Production	
University of Jordan	Field operations in Agricultural	English
	Economics and project evaluation	
University of Jordan	Applications in Agricultural	English
	Economics and project evaluation	
University of Jordan	Seminar in Agricultural economics	English
University of Jordan	Seminar in Agricultural economics	English
		(Graduate)
University of Jordan	Agricultural Linear Programming	English
University of Jordan	Agricultural Econometrics	English
		(Graduate)
University of Jordan	Operation Research in Agribusiness	English
		(Graduate)
University of Jordan/	Water Economics	English
University of Cologne (ITT)		(Graduate)
University of Jordan/	Water Allocation and Pricing	English
University of Cologne (ITT)		(Graduate)

RESEARCH AND CREATIVE ACTIVITIES

Research articles that have been published in refereed journals

- 1. **Salman Amer** and M.S. Habbab, "Estimation of economic efficiency of vegetable production in the Jordan Valley" DIRASAT, Agricultural Sciences, Volume 24, Number 2, 1997, P 275-291. (Arabic)
- 2. **Salman Amer** and M.J. Tabbaa, "Utilizing the linear programming techniques to determine the components of feed ration for ewes at different physiological stages using agricultural and industrial by-products in addition to traditional feed stuffs" DIRASAT, Agricultural Sciences, Volume 27, Number 2, 2000, P 269-282. (Arabic)
- 3. Othman T, Amer Salman, and S. Abdulrahim, "Technical and economic factors affecting broiler parent stock farms in Jordan" DIRASAT, Agricultural Sciences, Volume 27, Number 2, 2000, P 385-401. (Arabic)
- 4. M. Salem and **Amer Salman**, "The trade-off between return and risk in the whole farm planning in the Jordan Valley" Emirates Journal of Agricultural sciences, Volume 12, pp 123-145, 2000 (Arabic)
- 5. **Salman Amer**, "Econometric analysis of barley production in low rainfall areas in Jordan", *DIRASAT*, Agricultural sciences, Volume 26, No. 1, January 1999, p 36-49.
- 6. Al-Karablieh E and **Amer Salman**, "Forecasting models for barley production in Jordan", *Emirates Journal for Agricultural Sciences*, Volume 11, 1999, p 59-81.
- 7. **Salman Amer**, M. A. El-Karaki and E. Al-Karablieh, "Economics of inputs used in olive production in Al Badia area of Jordan", *DIRASAT*, Agricultural sciences, Volume 27, No. 3, September 2000, p 327-333.
- 8. **Salman Amer**, E. Al-Karablieh, and F. M. Fisher, "An Inter-seasonal agricultural water allocation system (SAWAS)", *Agricultural Systems*, Volume 68, 2001, p 233-252
- 9. **Salman Amer**, and E. Al-Karablieh, "An early warning system for wheat production in low rainfall areas of Jordan", *Journal of Arid Environments*, volume 49 (3), pp 631-642. November 2001.
- 10. E. Al-Karablieh, **Amer Salman**, and F. M. Fisher, "Forecasting wheat production (the case of Irbid region of Jordan)", Quarterly Journal of International Agriculture, Volume 41 (3), pp 191-206. 2002.
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- 2. **Chapter 6: Amer Salman**, Emad Karablieh, Heinz-Peter Wolff, and Franklin M. Fisher (2006). The Economics of Water in Jordan in Water Resources in Jordan (Evolving polices for development, the environment and conflict resolution), Editor: Munther J. Haddadin, Resources for The Future, Washington DC.
- 3. Chapter 7: Munther J. Haddadin, Amer Salman and Emad Karablieh (2006). The Role of Trade in Alleviating Water Shortage, in Water Resources in Jordan (Evolving polices for development, the environment and conflict resolution), Editor: Munther J. Haddadin, Resources for The Future, Washington DC.
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- 1. <u>Amer Salman</u>, (2001), The impact of optimizing the allocation of irrigation water on the economics of agricultural production. Water saving and increasing water productivity: Challenges and options Jordan, March, 10-23, 2001, Pages b20.1-b 20.13.
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- 3. Amer Salman, K. Raddad, M. Shatanawi, and H. Al-Qudah (2002), The economics of groundwater use in agriculture in the upland area of Jordan, An international conference in Agadir in MOROCO with cooperation of CIHEAM/ Mediterranean Agronomic Institute-BARI. Water Valuation and Cost Recovery Mechanisms in the Developing Countries of the Mediterranean Region. Morocco Series A: Mediterranean Seminars Number 49, June 2002, Pages 177-190, ISSN:1016-121X, ISBN:2-85352-247-4.
- 4. <u>Amer Salman</u> (2002), The economics of photovoltaic pumping system in the irrigated agriculture in JordanA workshop titled Application of photovoltaic in irrigated agriculture, present and prospective, Amman Jordan. April, 2002.
- 5. M.R. Hamdan and <u>Amer Salman</u> (2004), Impact of Irrigation Water Scarcity on the Socio-economics of Agricultural Sector and Food Security in Jordan, the International forum on Food Security under Water Scarcity in the Middle East: Problems and Solutions, COMO (Italy) November, 24-27 2004.
- 6. Heinz-Peter Wolff, <u>Amer Salman</u>, Werner Doppler, Asem Nabulsi, and Emad Al-Karablieh (2004), Socio-Economic Consequences from Recycling Freshwater by Treated Wastewater in Rural Areas- An Example from the Jordan Valley, The 14th

- World Water Week in Stockholm, Sweden, August 16-20, 2004, Pages 129-130, Abstract.
- 7. <u>Amer Salman</u>(2005), Measuring the impact of Treated Wastewater on the Marginal Productivity of Agricultural Land in the Jordan Valley, Regional Workshop on the Natural Resource Valuation and Assessing the Impact of Water Resource Management Research in Agriculture, Rabat, Morocco, January, 6-11, 2005
- 8. M.R. Hamdan and <u>Amer Salman</u> (2005), Socio-Economic Impact of Water Price Strategies in the Jordan Valley, Jordan, International Conference Water: Values & Rights, Sponsored by: Palestine academy for science and Technology and Palestinian Water Authority, Ramallah, Palestine, May 2-4, 2005, Pages 111, Abstract.
- 9. Heinz-Peter Wolff, Werner Doppler and <u>Amer Salman</u> (2006), Widening the Scope of IWRM from Natural to Socio-Economic Watersheds The Conceptual Framework of Research Network in the Jordan Valley, World Water Week in Stockholm, Sweden, August 20-26, 2006, Pages 159-160 Abstract.
- 10. Emad Al-Karablieh and <u>Amer Salman</u> (2006), Measuring the Profitability of Different Irrigation Water Qualities in the Down Stream of Amman Zarqa Basin in Jordan. Integrated Water Resource Management and Challenges of the Sustainable Development, Morocco, Marrakech, May 23-25, 2006, Page 74.
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- 12. Ph. Ker Rault, M. Bouzit; P. Jeffrey; <u>A. Salman</u> (2006), E. AL-Karablieh, .O. Attila; S. Yüzereroğlu. Application of Participatory Foresight Methodology at River Basin Scale in Jordan and Turhey, Integrated Water Resource Management and Challenges of the Sustainable Development, Morocco, Marrakech, May 23-25, 2006, Page 134, Paper is on CD
- 13. Emad Al-Karablieh, <u>Amer Salman</u>, and Abbas Al-Omari, Mohammad E. Osman. (2006). Water Allocation Model in Ghor Al-Safi in Jordan. The 3rd International Conference on the "Water Resources in the Mediterranean Basin" WATMED 3. Tripoli-Lebanon, 1-3 November 2006.
- 14. Emad Al-Karablieh, <u>Amer Salman</u>, and Abbas Al-Omari (2006). The Residental Water Demand Function in Amman-Zarka Basin in Jordan. The 3rd International Conference on the "Water Resources in the Mediterranean Basin" WATMED 3. Tripoli-Lebanon, 1-3 November 2006.
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- 17. Wolff, H.-P. Wolff, M.Shechter, A. Fleischer, **Amer Salman**, Emad Al-Karablieh, T. Hijawi, I. Kan, N. Becker (2007). Socio-economic consequences of changes in frame conditions for the agricultural sector.
- 18. Wolff, H-P. Wolff, H-P, M. Shechter, T. Hijawi, **Amer Salman**, A. Fleischer, E. Al-Karablieh, I. Kan (2008). Change in Natural Resources vs. Socio-economic Development-Identification of Bottlenecks for Exploiting Future Agricultural Potentials

- in the Jordan Valley. Competition for Resources in a Changing World: New Drive for Rural Development. Tropentag, October 7-9, 2008, Hohenheim. Germany
- 19. Stéphanie Aulong, Madjid Bouzit Nathalie Dorfliger, Fadi Comair, Emad Al-Karablieh and **Amer Salman** (2008). Integrating water balance and cost-effectiveness analysis for water management: An application in Jordan and Lebanon. 13th IWRA World Water Congress, 1–4 September 2008, Montpellier, France.
- 20. **Amer Salman**, Emad Al-Karablieh and Munjed Al-Sharif (2009), An Assessment of the Potential Consequences of Water Supply Variability on the Socioeconomics of the Northern Jordan Valley, G-WADI International Workshop, "Climate Change Impact on Water Resources: Risk, Assessment and Management in Arid and Semi- Arid Regions" 24th -26th November 2009, Le Meridian Hotel, Amman-Jordan
- 21. Marc Haering, Emad Al-Karablieh and **Amer Salman** (2009), Predicting Unmet Irrigation Water Demands due to Climate Change Impacts on Water Resources, G-WADI International Workshop, "Climate Change Impact on Water Resources: Risk, Assessment and Management in Arid and Semi- Arid Regions" 24th -26th November 2009, Le Meridian Hotel, Amman-Jordan.
- 22. Marc Haering, Emad Al-Karablieh and **Amer Salman** (2009), Predicting Unmet Irrigation Water Demands due to Climate Change Impacts on Water Resources. The International Conference on Food Security and Climate Change in the Dry Areas, Organized by ICARDA and NCARE 1st -4th February 2010, Amman-Jordan.
- 23. Emad Al-Karablieh and **Amer Salman**, (2010), An Assessment of Socioeconomics Dimensions of Climate Change on Agricultural Sector in Jordan, The Higher Council for Science and Technology, HCST "15th Annual Science Week 12-12/05/2010.
- 24. **Amer Salman** and Emad Al-Karablieh, (2010), The Economics of Using Different Qualities of Irrigation Water in the Down Stream of Amman-Zarqa Basin, The Higher Council for Science and Technology, HCST "15th Annual Science Week 12-12/05/2010.
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- 26. Al-Omari, A., **Amer. Salman**, and E. Al-Karablieh (2011) The Red Dead Canal Project: An Adaptation to Climate Change in Jordan. 1st Water and Environment International Conference, WATEIC-2011, October 26 29, 2011, Marrakech-Morocco
- 27. Emad K. Al-Karablieh, **Amer Z. Salman**, Abbas Al-Omari, Heniz-Peter Wolff, Tamer Al-Assa'd, Ali Subah (2011). Estimation of the Economic Value of Irrigation Water in Jordan.1st Water and Environment International Conference, 26-29 October, 2011, Marrakech, Morocco,
- 28. Tamer A. Al-Assa'd, Emad K. Al-Karablieh, **Amer Z. Salman**, Heniz-Peter Wolff (2011) Recognizing the Economic Value of Domestic Water in Jordan as a Way for Appropriate Setting of Water Pricing, 1st Water and Environment International Conference, 26-29 October, 2011, Marrakech, Morocco
- 29. Amer Salman, Emad Al-Karablieh, Abbas Al-Omari, Iyad Hussein & Tamer Al-Assad (2011). Water Allocation Model (WAM). 1st Water and Environment International Conference, 26-29 October, 2011, Marrakech, Morocco.
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- 31. Arwa Hamaideh, Emad K. Al-Karablieh, **Amer Salman** and Faten O. Al-Najjar (2011). Consumer's Participatory Approach in Municipal Water Demand Management for Greater Amman. The sixth IWA Specialist Conference on Efficient Use and Management of Water. Dead Sea, Jordan. 29 March- 2 April 2011. IWA, USAID, Ministry of Water & Irrigation, Jordan

- 32. Wolff, H.-P., Al-Karablieh E., Al-Assa'd T., Subah A, Amer Salman (2011). Jordan Water Demand Management Study. The sixth IWA Specialist Conference on Efficient Use and Management of Water Dead Sea, Jordan. 29 March- 2 April 2011. IWA, USAID, Ministry of Water & Irrigation, Jordan.
- 33. Wolff, H-P., A. Subah, J. Guttman, A. Tamimi, J, Bensabat, , A. Jarrar, A. Salman, and E. Karablieh Performance, impact and ranking of IWRM strategies in the Jordan Valley International Conference on Integrated Water Resources Management. Management of Water in a Changing World: Lessons Learnt and Innovative Perspectives. 12-13 October 2011 Dresden, Germany.
- 34. Al-Omari, A., **A. Salman**, and E. Al-Karablieh. The Red Dead Canal Project: An Adaptation to Climate Change in Jordan 1st Water and Environment International Conference, WATEIC-2011, October 26 29, 2011. Marrakech- Morocco.
- 35. Emad K. Al-Karablieh, **Amer Z. Salman**, Abbas Al-Omari, Heniz-Peter Wolff, Tamer Al-Assa'd, Ali Subah. Estimation of the Economic Value of Irrigation Water in Jordan. 1st Water and Environment International Conference. 26-29 October, 2011, Marrakech, Morocco.
- 36. Tamer A. Al-Assa'd, Emad K. Al-Karablieh, **Amer Z. Salman**, Heniz-Peter Wolff Recognizing the Economic Value of Domestic Water in Jordan as a Way for Appropriate Setting of Water Pricing. 1st Water and Environment International Conference 26-29 October, 2011, Marrakech, Morocco.
- 37. **Amer Salman**, Emad Al-Karablieh, Abbas Al-Omar, Iyad Hussein & Tamer Al-Assad, Water Allocation Model (WAM)1st Water and Environment International Conference 26-29 October, 2011, Marrakech, Morocco.
- 38. Al-Karablieh, E. K., **Salman A. Z** and Tabieh M.A. (2013). Assessment of Direct and Indirect Impacts of Climate Change on the Socioeconomics in the Zarqa River Basin. SWUP-MEDFinal Conference. Sustainable water use for securing food production in the Mediterranean region under changing climate. Agadir, Morocco, 11-15 March 2013. http://www.swup-med.dk/
- 39. **Salman A. Z.**, Al-Karablieh E. K., Al-Zoubi A. S., and Tabieh M. A. (2013). An Assessment of the Potential Consequences of Climate Change on the Economics of Irrigated Agriculture in Northern Jordan Valley. SWUP-MEDFinal Conference. Sustainable water use for securing food production in the Mediterranean region under changing climate. Agadir, Morocco, 11-15 March 2013. http://www.swup-med.dk/

OTHER UNIVERSITY ACTIVITIES A member in different exam committees for many Master's and PhD students:

Title	Year
Possibility of minimizing the cost of imported red meat in Jordan.	1997
2. Economic impact of the use of recycled wastewater of King Talal Dam on citrus production in the middle Ghor of the Jordan Valley.	1998
3. The impact of structural adjustment program on food consumption pattern of households in Zarka governorate.	1998
4. Analysis of socio-economic factors and their relation ship with the use and management of agricultural resources in Muhy.	1999
5. Water harvesting potential of different land types in arid to semi-arid region in Jordan.	1999
6. Analysis of the agricultural policies affecting fruit tree sector in the highlands of Jordan (PHD-thesis).	2000

7. Estimating the demand and production functions of animal products and food gap in Jordan.	2001
8. Optimization of water allocation in the agricultural sector in the Yarmouk Basin of Jordan.	2004
9. Economic Evaluation of Eco-tourism in Dibben protected area and its role in site's conservation and development of local community	2005

AWARDS AND SCHOLARSHIPS

1.	Participant in a conference held in Germany "The use of Nitrogen fertilizers and its consequences on the Quality of Ground Water.	1993	Germany
2.	Scientific visit on the possibility of developing and improving the land and water use in the Mhasse area in Syria, financed by ICARDA and JAZZP.	November 1996	Syria
3.	Participation in a conference in with the cooperation of Harvard University, with the title of "Water economics and Modeling in the Middle East".	March, 1998	Netherlands/ Amsterdam
4.	Awarded a scholarship from DAAD, for the research purpose at the university of Hohenheim- Germany (July 1 – August 30, 2000)	July, 1- August 30, 2000	Germany/ Stuttgart
5.	Awarded a scholarship from TEMPUS (European Union) for the research purpose at the university of Hohenheim-Germany (July 1 – August 30, 2003)	July, 1- August 30, 2003	Germany/ Stuttgart

COMMUNITY SERVICES

Other community services: Training courses, lectures, seminars, articles of general interest, etc.

	articles of general interest, e	ı	
	Nature of service or activity	Place	Date
1.	Training a Yemeni- Trainees through a course ("using the	Jordan	1995
	Microsoft's Excel and Blp88 in project evaluation and		
	farm resource planning") held at the University of Jordan.		
2.	Training of trainers in the formulation of agriculture and	Jordan	1996
	rural investment project with environmental	3	
	consideration, The regional Center on Agrarian Reform		
	and Rural Development For the Near East at (CARDNE).		
3.	Participation in a workshop, financed by the USAID with	Jordan	June, 1997
3.	cooperation of the Institute of Public Administration,	Jordan	Julie, 1777
	with the title of "Introduction to conflict analysis and		
	consensus-building processes" USAID.		
1	Trainer for participants in the field of agricultural Policy	Jordan	2001
4.	1 1	Joidan	2001
	analysis of water sector, Financed by FAO with		
	cooperation of Ministry of Agriculture.	I 1 .	2001
5.	Training participants in the field of mathematical	Jordan	2001
	programming in the field of water sector, Financed by		
	FAO with cooperation of Ministry of Agriculture.		1.1.0.00
6.	Participation as trainer in the Advanced short course on	Jordan	March 10-23,
	Water Saving and Increasing Water Productivity:		2001
	Challenges and Options" Faculty of Agriculture		
	University of Jordan. Amman- Jordan, March 10-23,		
	2001.		
7.	Training for participants from the Royal Society for	Jordan	2003
	Conservation of Nature (RSCN) in the field of Statistics		
	and applications.		
8.	A training program in the field of project evaluation	Jordan	2004
	(economic and financial feasibility study) use EXCEL		
	software. Near East-North Africa Regional Agricultural		
	Credit Association (NENARACA).		
9.	Lecturer in the field of The Environmental Valuation	Jordan	June, 27-
	methodologies in a workshop titled Efficient	Al_al-bayt	October 12,
	Management of wastewater, it's treatment and reuse in	University	2004
	the Mediterranean Countries, held at Al_al-bayt		
	University funded by the European Commission and		
	German Federal Ministry for Economic cooperation and		
	Development (BMZ)		
10	. International master program "Integrated Water	Jordan &	2007-2010
10	Resources Management" for German and Arab young	Germany	2007-2010
	professionals. This project is a joint master's program	Octimally	
	between the WERSC of the University of Jordan and the		
	University of Applied Sciences at Cologne (UASC) in		
	Germany. The focus of the program is on Integrated		
	Water Resources Management (IWRM). This project is		
	funded by Deutscher Akademischer Austauschdienst		
	(DAAD).		