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Education

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| • Ph.D. Horticulture Science- Environmental Horticulture | University of Florida- Florida - USA | 2014-2016 |
| • M.Sc. Plant and Soil Sciences | Oklahoma State University- OK- USA | 2007-2008 |
| • B.Sc. Plant Production and Protection | Jerash University- Jerash- Jordan | 1997-2001 |

Experiences

Professional Experiences

- **Assistant professor** (Nov 2019- Present): Jerash University, College of Agriculture, Department of Plant Production & Protection.
- **Agriculture specialist** (Nov 2016- Feb 2016): Hydroponic Green Farming Initiative (HGFI) program, research activities, selection of demonstration sites and hydroponics technologies to be used in greenhouses.
- **Graduate Research Assistant**: University of Florida (2014-2016) responsible for laboratory analysis - field experiments follow ups- and extension services.
- **Teaching Assistant**: University of Florida (August 2014-December 2014).
- **Teacher- Agriculture Sciences**: Jordan Ministry of education, Amman, Jordan (September 2011- January 2013): Teaching high school classes mentoring students through the practical sections and (plant production, mushroom production, environmental resources, and ornamental production.
- **Graduate research assistant** (June 2007 –Dec 2008): Oklahoma State University.

Teaching Activities (Courses)

Teaching undergraduate course including (November 2019- Present):

- Principles in plant productions.
- Plant Physiology.
- Vegetable Production.
- Protected Agriculture.
- Ornamentals production.
- Climate change and sustainable development.
- Ecology and Agriculture science.
- Undergraduate (graduation project).

Training Courses- Workshops- Certificate

- **Workshop: Determine the professional standards required for specializing in Hydroponics systems:** Vocational Training Corporation & GIZ & Almethaleiah for business development. Amman January 9-12 /2023.
- **Workshop: Developing the general framework for Hydroponics:** Vocational Training Corporation & GIZ & Almethaleiah for business development. Amman January 2-5 /2023.
- **Developing the general framework for the vegetable production farm curriculum - irrigated agriculture Workshop :** Vocational Training Corporation & Wise Zone for Training and consulting. Amman July 24- July 27/2023.
- **Training Master Trainer (TMT) Certificate:** Hydroponic & Aquaponic. Jordan's Horticulture: A business that matters! October 15/2020 – MAY 2022- NUFFIC Program.
- **IIOE Training Series - Big Data General Level.** Sep 28- Oct 15/ 2020 International Institute of Online Education- UNESCO.
- **Hydroponics Management:** March 2016, extension training on hydroponics management (starting a Successful hydroponics Business) through the University of Florida extension service http://smallfarms.ifas.ufl.edu/calendar/2016_HydroShC_Flyer.pdf .
- **Landscape palm management:** March 2015, University Of Florida, Institute of food and agricultural sciences. Fort Lauderdale Research and Education Center.

Supervising/Co- Graduate students- (MS students)

- ♦ Role of water harvesting and pasture development projects In mitigating climate change in the Badia region. (2022)
- ♦ The Impact of Climate Change on Green Spaces in Amman City.(2022)

- ♦ The effect of using biochar and compost on different soil properties and on mitigating the climate change impacts: A case study of Mafraq Governorate (2022).
- ♦ The impact of climate changes on the peeling phenomena of Medjoul Dates “An applied study on Jordan valley region”. (2022)
- ♦ The Impact of Climate Change on Green Spaces in Irbid City. (2023)
- ♦ The impact of Smart Agriculture on adapting to climate changes and achieving food security from agricultural engineers’ perspectives. (2023)
- ♦ The Impact of Climate Change on The Production and Sustainability of Lemon Trees in Jerash Governorate. (2023)

Awards and Fellowships

- ✓ Dutch Youth Innovation Award: Creating Attractive Opportunity for Livelihood of Youth in Agriculture. funded by the Embassy of the kingdom of the Netherland in Jordan.
- ✓ Graduate PhD student poster competition (Third place) presented by the Annual Conference of American Society of Horticultural Science, New Orleans, LA, August, 2015.
- ✓ Certificate of Outstanding Academic Achievement, University of Florida. 2015.
- ✓ Owen and Vivian Wimberly Scholarship, Oklahoma State University, Stillwater, OK, April, 2008.
- ✓ Jerash University, Undergraduate Excellence Award, 1998- 1999

Grants and Funds:

- ✓ Increasing the resilience of both displaced persons and host communities to climate change related water challenges in Jordan and Lebanon” sponsored by the Adaptation Fund of the United Nation Framework Convention on Climate Change (UNFCCC), and implemented by UN-Habitat.

Professional Societies:

- American Society of Horticultural Science, member since January, 2014.
- Jordan Agricultural Engineering Association, member since July, 2001.

Conferences

- 1) The 9th Economic Conference Titled "Jordan's role in the fertilizer industry and its development: opportunities and challenges" Petra University **8/19/2023**
- 2) Food security in Jordan reality and future vision: Al-Ahliyya Amman University, **December 2022.**

- 3) The National Conference "Mechanisms for Activating the Political Participation of Academies and Educators": Jordan University of Science and Technology, **August 2022**.
- 4) Jordanian Alumni of North America Sixth Annual Forum-Online Education. **2020**,
- 5) 2016, American Society for Horticultural Science (ASHS) annual meeting in Atlanta, Georgia. Poster Title: Salinity Effects on Growth and Root Rot Inhibition in Palms.
- 6) 2015, American Society for Horticultural Science (ASHS) annual meeting in New Orleans, Louisiana. Poster Title: Growth Response of Date Palm (*Phoenix dactylifera*), Royal Palm (*Roystonea regia*), and Washington Palm (*Washingtonia robusta*) to Saline Irrigation Water.
- 7) Fourth Annual South Florida Graduate Student Research Symposium • 14 July 2015, UF/IFAS Ft Lauderdale Research and Education Center. Poster Title: Growth Response of Date Palm (*Phoenix dactylifera*), Royal Palm (*Roystonea regia*), and Washington Palm (*Washingtonia robusta*) to Saline Irrigation Water.
- 8) 2014, American Society for Horticultural Science (ASHS) annual meeting in Orlando, Florida.
- 9) 2009, Soil Science Society of America (SSSA) Annual Meeting in Pittsburgh: Poster title: Drivers in Soil Ecosystem Function: Enzyme Activities and Carbon, Nitrogen, Phosphorus, and Sulfur Contents.
- 10) 2008, The American Society of Agronomy (ASA), Crop Science Society of America (CSSA), and Soil Science Society of America (SSSA) Annual Meetings in Houston: Poster title: "Sulfur Dynamics and Activities of Sulfur-Transforming Enzymes in Prairie Soils".

Publications

Submitted for Publication:

- 1) Farmer's awareness, acceptance, and challenges for adopting soilless culture (hydroponics technology) for vegetable production in Jordan.

Published book chapters:

- 1) Rhizobia as plant growth promoting biofertilizers. In: Microbial Fertilizer Technology for Sustainable Crop Production. Taylor and Frances: Apple Academic Press. Hiba Alatrash, Abdel Rahman Mohammad Al-Tawaha, Yaman Jabbour, Roghayeh Karimirad, Abhijit Dey, Siddhartha Pati, Abdel Razzaq Al-Tawaha, Puteri E. Megat Wahab, Khaldoun Othman Al Sane, R. Z. Sayyed, Devarajan Thangadurai, Jeyabalan Sangeetha, Amreena Sultan, Kumar Pandey, Imran, Amanullah, Shah Khalid, **Samar S. Shawaqfeh**, Ekaterina Kozuharova, Sabaa Jawad Abdulkadhim, Samia Khanum, and Iftikhar Ali. (2023)
- 2) Production of plant hormones from microorganisms. In: Microbial Fertilizer Technology for Sustainable Crop Production. Taylor and Frances: Apple Academic Press. Adel Rahman Mohammad Al-Tawaha, Roghayeh Karimirad, Razzagh Karimirad, Abhijit Dey, Siddhartha Pati, Abdel Razzaq Al-Tawaha, Alla Aleksanyan, R. Z. Sayyed, Devarajan Thangadurai, Jeyabalan Sangeetha, Muhammad Aasim, Devendra Kumar Pandey, Imran, Amanullah,

Shah Khalid, **Samar S. Shawaqfeh**, and Iftikhar Ali. (2023).

Published Articles:

- 1) Awareness of pesticides' residues in food and feed among students of the Faculty of Agriculture, Mutah University, Jordan. Amani Al-Dawood, **Samar Shawaqfeh**, Firas Al-Zyoud, Amer Mammagh, Raed Al-Atiyat, and Hanan Hasan. 2023. Saudi Journal of Agriculture Science.
- 2) Increased Leaching Fraction to Improve Plant Growth Due to Irrigation Water High in Salts Kimberly Moore, Cristina Burgart, **Samar Shawaqfeh**, Luci Fisher, and Mica McMillan. HortTechnology., 32(6), 523-528.2022
- 3) Interaction between Zinc and Selenium bio-fortification and toxic metals (loid) accumulation in food crops. Mina Bayanati, Abdel Rahman Al-Tawaha, Duraid Al-Taey, Abdul Latief Al-Ghzawi, Yousef M Abu-Zaitoon, **Samar Shawaqfeh**, Omar Al-Zoubi, Ezz Al-Dein Al-Ramamneh, Laith Alomari, Abdel Razzaq Al-Tawaha, Abhijit Dey. Frontiers in Plant Science, 13: 1001992. 2022
- 4) **Samar Shawaqfeh**. Distance Online Learning During the COVID-19 Crisis from the Perspective of Agricultural Sciences Students in Jordan: Survey Study. Dirasat: Educational Sciences. Dirasat, Educational Sciences, Volume 49, No. 1, 2022
- 5) **Samar Shawaqfeh**, Radi A. Tarawneh and Khaled Al-Najjar. 2021. Assessment of Distance Learning for Online College of Agriculture Students During The COVID-19 Crisis. Pakistan Journal of Society, Education and Language. Vol 7 (2) July 2021.
- 6) **Samar Shawaqfeh** and Timothy Broschat. *Howea forsteriana*: Kentia Palm. IFAS extension, University of Florida, EDIS, ENH456. 2015.
- 7) Edmonds, Daniel E., Abreu, Silvano L., West, Adelheid, Caasi, Donna R., Conley, Travis O., Daft, Michael C., Desta, Birehane, England, Brandon B., Farris, Chelsea D., Nobles, Tia J., Patel, Nehaben K., Rounds, Elliott W., Sanders, Brennan H., **Shawaqfeh, Samar S.**, Lakmini, Lokuralalage, Manandhar, Roji and Raun, W. R. Cereal nitrogen use efficiency in Sub Saharan Africa. 2008. Journal of Plant Nutrition, 32: 12, 2107 – 2122.

References

- 1) Motassim Almassad, Ph.D. Professor. Jerash University, Jerash. Jordan. (079)1099817.
- 2) Timothy K. Broschat, Ph.D. Professor. University of Florida Ft. Lauderdale Res. & Educ. Center. 3205 College Avenue, Davie, FL 33314. (954) 577-6330. tkbr@ufl.edu.
- 3) Kimberly Moore, Ph.D. Professor. University of Florida Ft. Lauderdale Res. & Educ. Center. 3205 College Avenue, Davie, FL 33314. (954)-577- 6328. klock@ufl.edu.