

Yahia A. Othman

Mailing address: Department of Horticulture and Crop Science, University of Jordan, Amman, Jordan.

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Education

Ph.D. August 2010 –May 2014. Plant and Environmental Sciences, Department of Plant and Environmental Sciences, New Mexico State University. USA.

Graduate Certificate of Remote Sensing Feb 2012- June 2014. Collage of Professional Studies, Northeastern University, USA.

M.Sc. August 2002 –May 2005. Plant Production. Department of Plant Production, Jordan University of Science and Technology, Jordan.

B.Sc. 1998-2002. Rangeland and Forestry. Department of Natural Science. Jordan University of Science and Technology, Jordan

Research Interest

Ornamental plants physiology

Floriculture (production and design)

Landscape ecology

Remote sensing and geographic information systems (vegetation)

Professional Experience

Assistant Professor, September, 2016-Present. Department of Horticulture and Crop Science, University of Jordan, Amman, Jordan.

Research Associate, July 2014-August 2016. Texas A&M AgriLife Research Center, Texas A&M University System, Uvalde, Texas, USA.

Teaching and research assistant, August 2010 – May 2014.Department of Plant and Environmental Sciences, New Mexico State University, NM, USA.

Teaching and research assistant, September 2006 – July 2010.Department of Graduate Studies, Desert and Arid Zones Science Program, Arabian Gulf University, Manama, Kingdom of Bahrain.

April 2006- August 2006, Environmental researcher (Fauna & Flora), Department of Studies and Research, Royal Society for Conservation of Nature (RSCN), Amman, Jordan.

Teaching assistant August 2002 - June 2005. Department of Plant Production, Jordan University of Science and Technology, Jordan.

Publications

Al-Ajlouni M., Ayad J. and **Othman Y.** 2016. Substrate particle size improves shoot growth and flower quality of asiatic hybrid lily grown in soilless culture. *HortTechnology (In process)*.

Leskovar D., and **Othman Y.** 2016. Plant growth regulators mediate nitrogen availability signal in plants. *Acta Horticulturae (accepted)*.

Al-Ajlouni M., Ayad J. and **Othman Y.** 2016. Fertigation frequency promotes growth and flower quality in 'Fangio' *Lilium* grown in volcanic tuff substrate. *Horticulture Sciences (In process)*.

Leskovar D., and **Othman Y.** 2016. Low nitrogen and fertigation practices can improve artichoke transplant quality and yield. *HortScience* 51(5):567-572.

Leskovar D., **Othman Y.** and Dong X. 2016. Effect of strip tillage on soil biological activity, fruit yield and sugar content of triploid watermelon. *Soil and Tillage Research* 163:266-273.

Othman Y., Steele C., St. Hilaire R. 2016. Surface Reflectance Climate Data Records (CDRs) is a reliable landsat ETM+ source to study chlorophyll content in pecan orchards. *Canadian Journal of Plant Science* (Submitted).

Othman Y., Obidat M. Al-Ajlouni M., St. Hilaire R. 2016. Evaluation of trees canopy hyperspectral data for determining leaf area index and chlorophyll content. (*In process*).

Leskovar D., and **Othman Y.** 2015. Pre-transplant conditioning to mitigate heat, drought and biotic stresses in artichoke. *Acta Horticulturae (accepted)*.

Othman Y., Steele C., VanLeeuwen D., St. Hilaire R. 2015. Hyperspectral surface reflectance data used to detect moisture status of pecan orchards during flood irrigation. *Journal of the American Society for Horticultural Science* 140 (5):449-458.

Leskovar D., and **Othman Y.** 2015. Morpho-physiological characteristics and yield of early and mid-season globe artichoke. *Acta Horticulturae (accepted)*.

Othman Y., VanLeeuwen D., Heerema R., St. Hilaire R. 2014. Midday stem water potential values needed to maintain photosynthesis and gas exchange established for pecans. *Journal of the American Society for Horticultural Science* 139(5): 537-546.

Othman Y., Steele C., VanLeeuwen D., Heerema R., Bawazir S., St. Hilaire R. 2014. Remote sensing used to detect moisture status of pecan orchards grown in a desert environment. *International Journal of Remote Sensing* 35 (3): 949-966.

Abahussain A., Mohamed A., Salih A., Al Safe A., Mosa N., **Othman Y.** 2014. Soil salinization in some irrigated areas of the Kingdom of Bahrain. *Journal of Agricultural Science and Technology* 4:112-122.

Al-Karaki G., **Othman Y.** 2009. Soilless cultivation of some medicinal and aromatic herb plants under the conditions of Arabian Gulf region. *Emirate Journal of Food Agriculture* 21 (2): 64-70. 3.

Al-Karaki, G., Al-Ajmi A., and **Othman Y.** 2009. Response of soilless grown sweet pepper cultivars to salinity. *Acta Horticulturae* 1(807): 227- 231.

Al-Ajmi A, Salih A, KadimI,and**Othman Y.** 2009. Yield and water use efficiency of barley fodder produced under hydroponic system in GCC countries using tertiary treated sewage effluents. *Journal of Phytology*, 1(5): 342–348.

Al-Ajmi A, Al-Karaki G., and **Othman Y.** 2009. Effect of different substrates on fruit yield and quality of cherry tomato grown under recalcitrating soilless system. *Acta Horticulturae* 2 (807): 491-494.

Eid E, Katbeh A., Al Otoom,M,**Othman Y.** 2009. Contribution to the entomofauna of Dibeen forest reserve in Jordan. *Centre for Entomological Studies Ankara*. 9 November 2009. 19-41

Al-Ajmi A, Salih A, Kadim I, **Othman Y.** 2009. Chemical constituents and heavy metals contents of barley fodder produced under hydroponic system in GCC countries using tertiary treated sewage effluents. *Journal of Phytology* 1(6): 374–380.

Al-Karaki G., **Othman Y.** Al-Ajmi A. 2007. Effects of mycorrhizal fungi inoculation on landscape turf establishment under Arabian Gulf region conditions. *Arab Gulf Journal of Scientific Research* 25(3):147-152.

Othman Y., Al-Karaki G., Al-Tawaha A., and Al-Horani A. 2006. Variation in germination and ion uptake in barley genotypes under salinity conditions. *World Journal of Agricultural Sciences* 2(1): 11-15.

Al-Karaki G.N., Abu-Qubah N., **Othman Y.** 2006. Influence of mycorrhizal fungi and water stress on growth and yield of two onion cultivars. *Arab Gulf Journal of Scientific Research* 24(4): 206-214.

Abstracts in conferences

Leskovar D., and **Othman Y.** 2016. Plant growth regulation and nutrient interaction. 43RD annual meeting of the Plant Growth Regulation Society of America. North Carolina, USA.

Leskovar D., and **Othman Y.** 2016. PGRs and Nitrogen Applications to Improve Transplant Quality of Vegetable Crops. International Society for Horticultural Science Annual Conference. Pretoria, South Africa.

Leskovar D., and **Othman Y.** 2016. Applications of Plant Growth Regulators for Pepper - A Review. International pepper conference, Trujillo, Peru.

Leskovar D., Vasile Cerven and **Othman Y.** 2016. Cultivar and Calcium Management to Minimize Lettuce Tipburn in Greenhouse Hydroponics. American Society for Horticultural Science annual conference, U.S. *HortScience*

Leskovar D., and **Othman Y.** 2015. Low-level nitrogen fertilization improved root growth components and quality of containerized artichoke transplants. American Society for Horticultural Science annual conference, USA. *HortScience* 50(9) S209.

Leskovar D., **Othman Y.**, Crosby K., Dong X., Xue Q, Marek T. Water relations, gas exchange, and yield of pepper cultivars under water deficit stress. American Society for Horticultural Science annual conference, USA *HortScience* 50(9) S382.

Leskovar D., and **Othman Y.** 2015. Biodegradable plastics as alternative to polyethylene mulch for watermelon production systems. American Society for Horticultural Science annual conference, USA *HortScience* 50(9) S402.

St. Hilaire R. and **Othman Y.** 2014. Water deficit thresholds in pecans subjected to cyclic irrigation. American Society of Plant Biologists conference annual conference, USA *.Plant Biology: P15010-A*.

Othman Y., Steele C., St. Hilaire R. 2013. Remotely-sensed surface reflectance data for irrigation scheduling of southern New Mexico pecan orchards. American Society for Horticultural Science annual conference, USA. *HortScience* 48(9):S380.

Othman Y., Heerema R., Vanleeuwen D., St. Hilaire R. 2013. Predicting photosynthetic performance of pecans subjected to water deficit using midday stem water potential. International Society for Horticultural Science Annual Conference, USA. *Acta Horticulturae* 1070.

St. Hilaire R. and **Othman Y.** 2013. Photosynthesis and gas exchange are maintained during multiple cycles of moderate drought stress of pecan. American Society of Plant Biologists conference annual conference, USA *.Plant Biology: P11007*.

Othman Y., Steele C., Radosevich C., Heerema R., St. Hilaire R. 2012. Detecting physiological water stress in southern New Mexico pecan orchards using remote sensing. American Society for Horticultural Science annual conference, USA. *HortScience*47(9):S289. 4.

Othman, Y. and R. St. Hilaire. 2013. Remotely-sensed reflectance data reveal moisture status of southern New Mexico pecan orchards. Graduate Research and Arts Annual Conference, NMSU, New Mexico, USA.

Othman Y., Al-Karaki G. 2005. Evaluation of barley cultivars grown in Jordan for salt tolerance. Faculty of higher education scientific day, Jordan University of Science and Technology, Jordan.

Scientific activities

Academic Honors, and Awards

- Salopek Foundation Endowed Scholarship, U.S, 2013.
- Esteban Herrera Endowed Graduate award, U.S, 2012.
- Outstanding Graduate Assistantship Award, New Mexico State University, U.S, 2012.
- Graduate teaching and research Assistantship, New Mexico State University, U.S, 2010-2014.

Societies Membership

- American Society for Horticultural Science.
- The American Society of Agronomy.
- Soil Science Society of America.
- Crop Science Society of America.

Certificates

- Graphite Furnace Atomization (plant, soil and water analysis), VARIAN, Dubai. 2008.
- Fundamentals of Atomic Absorption (plant, soil and water analysis), VARIAN, Dubai. 2008.
- CISCO Information Technology Essentials: PC Hardware and Software, CISCO, Manama, Bahrain, 2008.
- International Computer Driving License (ICDL), Jordan, 2005.

Conferences

- Wheat and Vegetable Field Day, Texas A&M AgriLife Research & Extension Center, (Field day committee)
- Texas Organic Farmers and Gardeners Association Conference, San Antonio, U.S 2015 (Attendee).
- International Spinach Conference. Arizona. 2015 (Attendee).

- Southwest AG Summit. Yuma, Arizona. 2015 (Attendee).
- Olive production and management. Texas A&M Extension. November, 30, 2015. San Antonio, TX, USA.
- Southern region American Society for Horticultural Science annual meeting. February 5-7, 2016 San Antonio, TX, USA.
- Environmental and Genetic Determinants of Seed Quality and Performance meeting. February 25-27, 2016 San Antonio, TX, USA.

Experimental design, analysis and image processing

Design, analysis and graph field experiments using statistical and image processing software,

- SAS 9.4 (statistical analysis)
- Sigmaplot 12.0 (statistical analysis and graphing).
- ArcMap 10.2 (image processing, graphing and spatial analysis).
- ENVI 5.0 (Digital image processing).
- Feature Analyst 5.1 (Automated feature extraction and analysis).
- LIDAR Analyst 5.1 (Digital image processing).

References

Daniel I. Leskovar

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Rolston St. Hilaire

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