



Malik Ghazi Al-Ajlouni
Assistant professor
Landscape Architect and Horticulturist

Contact Information

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Education

- **PhD**
Major: Plant and Environmental Sciences
Minor: - Geographic Information System
- Experimental Statistics
Dissertation Title: Linking Landscape Types to Water Use of Residential Landscapes.
New Mexico State University (NMSU)
- **M.S. in Horticulture, 2003-2006**
Thesis Title: Evaluation of Landscaping Plants in Local Parks of the City of Irbid, North Jordan.
Jordan University of Science and Technology (JUST)
- **B.S. in Agriculture, 1999-2003**
Major: Plant Production
Jordan University of Science and Technology

Current work

- Assistant professor, Department of Horticulture and Crop Science, Faculty of Agriculture, Amman 11942 Jordan.
- Coordinator of Landscape Horticulture Bachelor program at the University of Jordan.

Research interest

- Landscape Architecture, Ornamental Horticulture, and Smart Irrigation design.

Awards

- Fulbright Postdoctoral Scholar Award, June 2017 to January 2018. The title of scholarship research was: Investigation of landscape types, homeowner preferences, and water conservation techniques of residential gardens in New Mexico, USA and Amman, Jordan.

- William Blythe Mayfield, researches on landscape native plants, (NMSU) 2010
- Wilson, Marvin, (NMSU) 2009
- Herrera, E.A., (NMSU) 2008

Landscape design works

- Designing, supervising, and implementing the Botanical Garden at the research station of the University of Jordan in the Jordan valley (2013 - current). The garden has an area of 38 dunam. Beside the tropical and subtropical plants, it includes wide range of citrus and date palm species. In addition, it has a recreational lawn irrigated by SMART irrigation system. This botanical garden became a model for education, training, and research for students and local communities.
- Consultant for Marriott resort to prepare and supervise soft landscape maintenance plan for Marriott Dead Sea Resort and Spa 2014 until 2016 (three years). The plan included redesigning soft landscape area, preparing a maintenance schedule plan, Supervision for all exterior landscape areas, and training the landscape workers.
- Designing the all planting and irrigation plan documents for Marsa Zayed, Aqaba (2012).
- Designing and supervising several residential landscapes in Jordan.

Published paper

- Frieze, V. D., Gioannini, R., **Al-Ajlouni, M. G.**, VanLeeuwen, D. M., & Hilaire, R. S. (2018). Contrasting Urban Landscapes and Reduced Irrigation Engender Water Conservation in a Desert Environment. *Sustainability*, 10(3), 624.
- **Al-Ajlouni, M. G.**, Ayad, J. Y., & Othman, Y. A. (2017) Increasing nutrient levels promote growth and flower quality in lilies grown under soilless culture. *Hort. Sci.*, 44(4), 171-177.
- **Al-Ajlouni, M. G.**, Ayad, J. Y., & Othman, Y. A. (2017). Particle size of volcanic tuff improves shoot growth and flower quality of asiatic hybrid lily using soilless culture. *HortTechnology*, 27(2), 223-227.
- **Al-Ajlouni, M. G.**, Othman, Y. A., Al-Qarallah, B. M., & Ayad, J. Y. (2017). Using environmentally friendly substrate in soilless lily production. *Journal of Food, Agriculture & Environment*, 15(1), 34-38.
- **Al-Ajlouni, M. G.**, VanLeeuwen, D. M., & Hilaire, R. S. (2014). Linking urban residential landscape types in a desert environment to landscape water budgets. *HortTechnology*, 24(3), 307-312.
- **Al-Ajlouni, M. G.**, VanLeeuwen, D. M., DeMers, M. N., and St. Hilaire, R. (2013). A method to quantitatively classify residential urban landscapes in a desert environment. *HortTechnology*, 23:474-481.
- **Al-Ajlouni, M. G.**, D.M. VanLeeuwen, and R. St. Hilaire. (2012). Performance of weather-based controllers in a desert environment. *Journal of the American Water Works Association*.

Published abstract

- Al-Ajlouni, M. G., and St. Hilaire, R. (2009). Linking Landscape Types to Water Use of Residential Urban Landscapes. *HortScience*, 44(4): 1162.
- Al-Ajlouni, M. G., and St. Hilaire, R. (2010). Performance of Weather-Based Residential Irrigation Controllers in a Desert Environment. *HortScience*, 45(8): 263.

Conferences

- American Society for Horticultural Science, August 2–5, 2010, Palm Desert, California.
- American Society for Horticultural Science, July 25–28, 2009, St. Louis, Missouri.

Work Experience

- Senior Landscape Architect and Horticulturist at MK-Associates, Amman, Jordan, December 2011 – June 2013.
- Graduate Research Assistant at NMSU:
 - January-August 2011, January-August 2010, May-August 2009, and May-August 2008
- Graduate Teaching Assistant at NMSU:
 - HORT 200 - Special Topics/Landscape irrigation (3 credits), spring, 2008.
 - HORT 210 - Ornamental Plants I (landscape plants I)(4 credits), fall 2007 and fall 2009
 - HORT 211 - Ornamental Plants II (landscape plants II)(4 credits), fall 2008 and fall 2010
 - HORT 307 - Landscape Design (3 credits), fall 2008.
 - HORT 308 - Landscape Construction (3 credits), spring, 2009.
 - HORT 533 - Environmental Physiology of Plants (3 credits), fall 2007.
- Landscaping engineer at Greater Irbid Municipality, Jordan, February – August 2007.
- Landscape designer at M.K. Associates, Jordan, June 2006 – February 2007.
- Graduate Teaching Assistant at JUST:
 - PP332 - Forage production, fall 2003.
 - PP424 - Landscape horticulture, spring 2003.
 - PP422 - Plant propagation, fall 2004.
 - PP323 - Floriculture, spring 2004.
- Supervisor Engineer, June 2003- January 2004. Red Flower Nurseries and Farms, Irbid, Jordan.

Special Skills, Courses, Qualifications, and Services

- I have practical experience in using AutoCAD to design and prepare all landscape design and construction documents.
- Training and Certificates:
 - Learning Arc GIS Desktop, (24 course hours), certificate from ESRI, February, 2009.

- Learning ArcGIS Spatial Analyst, (18 course hours), certificate from ESRI, February, 2009.
- Introduction to Urban and Regional Planning Using ArcGIS 9, (18 course hours), certificate from ESRI, March, 2009.
- Leadership skills, Center for Civil Society Development, (JUST) 2002
- Managing the annual Nursery/Landscape competition for New Mexico Future Farmers Association (FFA), 2008, 2010, and 2011.
- I helped students and the city of Las Cruces through a suggested design for the Water Demonstration Garden. Spring, 2009.
- Founder and president of Agriculture Technology Club (JUST) 2002-2003.
- President of Scientific Research Club (JUST) 2000-2001.
- Director of King Hussein Award for Scientific Research (national award), JUST 2001.