

Ala Khaleel

Graduate research and teaching assistant
curriculum vitae

Department of Agronomy
Iowa State University
2501 Agronomy Hall
Ames, Iowa
Email: akhaleel@iastate.edu

EDUCATION

Ph.D. in Soil Science and Environmental Science – <i>Iowa State University</i>	Present
M.S. in Sustainable Agriculture – <i>Iowa State University</i>	2018
B.S. in Soil, Water, and Environment – <i>The University of Jordan</i>	2014

PROFESSIONAL EXPERIENCE

Teaching and Research Assistant – Iowa State University	2018-Present
Research Assistant – Iowa State University	2015-2018
Research Assistant – The University of Jordan	2014

RESEARCH EXPERIENCE

Teaching and Research Assistant – Iowa State University <u>Advisors:</u> Dr. Michael Thompson and Dr. Marshall McDaniel	2018-Present
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Conduct research to understand the impact of different cropping systems on soil health parameter, specifically biological and chemical parameter.

Research Assistant, Dept. of Natural Resource Ecology and Management, and National Laboratory of Agriculture and Environment, USDA-ARS	2015-2018
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Advisors: Dr. Tom Sauer and R. John Tyndall

Conduct original research designed to quantify tree windbreak plantings contribution to soil organic matter in the U.S. Great Plains.

- Responsible for laboratory soil testing, including tests for total carbon, total nitrogen, pH, stable carbon isotope, aggregate stability, saturated hydraulic conductivity, particulate organic matter, particle size distributions.
- Performed statistical analyses, graphing, and interpretation of soil data using R

TEACHING EXPERIENCE

Teaching Assistant

Environmental Soil and Water Chemistry – Iowa State University	2018-Present
Environmental Soil and Water Chemistry (Laboratory Section) – Iowa State University	2018-Present
Organic compounds in plants and soils – Iowa State University	2018-Present

PUBLICATIONS

Ala'A, K., Sauer, T. J., & Tyndall, J. C. (2020). Changes in deep soil organic carbon and soil properties beneath tree windbreak plantings in the US Great Plains. *Agroforestry Systems*, 94(2), 565-581.

PUBLICATIONS in PROGRESS

Khaleel, Hall, McDaniel, Sauer, and Tyndall, Do Tree windbreaks increase or decrease soil organic carbon?
F. Rivas, M. Thompson, M. Ibrahim, and A. **Khaleel**, Soil Health Index across biofuel cropping systems.

PROFESSIONAL and COMMUNITY SERVICE

Seminar planning chair for the Agronomy Department seminar series, Iowa State, University 2020-2021

HONORS and AWARDS

Iowa State University
Vernon C. Miller Scholarship 2021
Margaret Sloss Center for Women and Gender Equity 2020
Professional Advancement Grant 2019
Natural Resource Ecology and Management Travel Grant 2019
3rd place poster in Sustainable Agriculture Research Symposium 2017
1st place poster in Sustainable Agriculture Research Symposium 2017
R. Howard and Hazel Kintzley Porter Memorial Scholarship 2016

LANGUAGES AND SKILLS

R software
English: Fluent
Arabic: Mother tongue