

Aoesta Khalid Mohammed

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EDUCATION

Ph.D. in Soil Geography (May 2017 expected)
Department of Geography and Atmospheric Science, University of Kansas, Lawrence, KS
Dissertation: Characterization and Genesis of Soil Structure
Advisor: Dr. Daniel Hirmas

M.Sc. in Physical Geography/Applied Geomorphology (2009)
Department of Geography, University of Sulaimani, Sulaimani, KRG, Iraq
Thesis: The Ties between the Geomorphology of Sulaimany City and its Landuse for Residential Purposes
Advisor: Dr. Jaza Tawfiq Talib

B.A. in Geography with a Minor in Cartography (2004; graduated 1st out of a class of 57)
Department of Geography, University of Sulaimani, Sulaimani, KRG, Iraq
Undergraduate Thesis: Atlas of Sulaimani Province, Research of Cartography in Geography

ACADEMIC APPOINTMENTS

Graduate Teaching Assistant (Fall 2017- Spring 2018)
Department of Geography and Atmospheric Science, University of Kansas

Graduate Teaching Assistant (Fall 2016 - Spring 2017)
Department of Geography and Atmospheric Science, University of Kansas

Graduate Research Assistant (Summer 2016)
Department of Geography and Atmospheric Science, University of Kansas

Graduate Teaching Assistant (Spring 2016)
Department of Geography and Atmospheric Science, University of Kansas

Graduate Research Assistant (Summer - Fall 2015)
Department of Geography and Atmospheric Science, University of Kansas

Assistant Lecturer (2009-2010)
Department of Geography, University of Sulaimani, Sulaimani, KRG Iraq

Assistant Researcher (2004-2009)
Department of Geography, University of Sulaimani, Sulaimani, KRG Iraq

PUBLICATIONS

Mohammed, A.K., D.R. Hirmas, D. Giménez, R.D. Mandel, J. Miller. 2016. A digital morphometric method for quantifying ped shape. *Soil Science Society of America Journal* 80:1604-1618.

Mohammed, A.K., and H.T. Karim. 2004. Atlas of Sulaimany Province, Research of Geographic Mapping, Hamdi Publication, Sulaimany.

MINOR PUBLICATIONS

Hirmas, D. R., **A.K. Mohammed**. 2017. Methods Of Analyzing Geographical Data, Laboratory Manual, University Of Kansas, department Of geography and Atmospheric Science, Lawrence, KS.

Amrhein C., D. R. Hirmas, L. Mason, and A Seyfferth. Modified: **A.K. Mohammed**. 2017. Introduction to Soil Geography, Laboratory Manual, University Of Kansas, department Of geography and Atmospheric Science, Lawrence, KS

HIGHLIGHTED CONTRIBUTIONS

Society Science. 2017. A digital morphometric approach for quantifying ped shape. CSA News 62(1):10.

Digital Library News. 2016. A digital morphometric approach for quantifying ped shape. Alliance of Crop, Soil, and Environmental Science Societies. (<https://dl.sciencesocieties.org/story/2016/dec/tue/a-digital-morphometric-approach-for-quantifying-ped-shape>)

PROFESSIONAL PRESENTATIONS

Invited

Mohammed, A.K. 2017. Kansas Women's Leadership Institute. Kansas Women's Leadership Institute Team in Collaboration with International Programs and International Student Services, Nunemaker Hall, University of Kansas, Lawrence, KS, 19 July 2017.

Mohammed, A.K. 2017. Grassland Soils of Iraq. Grasslandia! A Workshop for K-12 Teachers and Education Students. Spencer Museum of Art, University of Kansas, Lawrence, KS, 1 April 2017.

Mohammed, A.K. 2016. Quantifying Soil Structure Using an Image Analysis Approach. Department of Geography and Atmospheric Science Alumni Reunion, Lawrence, KS, 15 April 2016.

Volunteered

Mohammed, A. K., D. R. Hirmas, D. Gimenez, and A. Nemes. 2016. Exploring Relationships Between Soil Structure and Climate Across the Conterminous USA. International Annual Meeting, ASA-CSSA-SSSA, Phoenix, AZ. 6-9 November 2016.

Mohammed, A.K., J.H. Kastens, W.C. Johnson, and D.R. Hirmas. 2016. Predicting Flood Vulnerability in a Developing Urbanized Environment: A Modeling Study for Sulaimanyah, Iraq. American Association of Geographers Annual Meeting, San Francisco, CA, 29 March-2 April 2016.

Mohammed, A.K., D.R. Hirmas, D. Giménez, and R. D. Mandel. 2015. A Digital Morphometric Method for Quantifying Ped Shape. International Annual Meeting, ASA-CSSA-SSSA, Minneapolis, MN. 15-18 November 2015.

Giménez, D., D.R. Hirmas, and **A.K. Mohammed**. 2015. Investigating the Potential of National Cooperative Soil Survey Information for Advancing Soil Science. International Annual Meeting, ASA-CSSA-SSSA, Minneapolis, MN. 15-18 November 2015.

Mohammed, A.K., D.R. Hirmas, D. Giménez, and A. Nemes. 2014. Investigating Relationships between Soil Morphology, Classification, and Hydraulic Properties. International Annual Meeting, ASA-CSSA-SSSA, Long Beach, CA. 2-5 November 2014.

COURSES TAUGHT

GEOG /EVRN Introduction to Soil Geography Laboratory (Fall 2017), KU, Lawrence, KS

GEOG 105 Introductory Laboratory in Physical Geography (Spring 2017), KU, Lawrence, KS

GEOG 316 Methods of Analyzing Geographical Data Laboratory (Fall 2016), KU, Lawrence, KS

GEOG/EVRN 335/535 Introduction to Soil Geography Laboratory (Fall 2016), KU, Lawrence, KS

Natural Resources (2009-2010; 2nd year undergraduate students), University of Sulaimani, Sulaimani, KRG, Iraq

Geography of North and South America (2009-2010; 3rd year undergraduate students), University of Sulaimani, Sulaimani, KRG, Iraq

Geography of North and South America (2009-2010; 3rd year undergraduate students), University of Khanqin, Sulaimani, KRG, Iraq

PROFESSIONAL DEVELOPMENT

Structural Equations Modeling, Summer Statistical Institute, KU Stats Camp. June 6, 2017, Structural Equations Modeling

LET Women Conference, Leadership, Elevation and Transformation. March 11, 2017, Structural Equations Modeling

AGU Annual Meeting. 12-16 December 2016, San Francisco CA

AAG Annual Meeting. 29 March- 2 April 2016, San Francisco CA

ASA-CSSA-SSSA Annual Meeting. 15-18 November 2015, Minneapolis MN

ASA-CSSA-SSSA Annual Meeting. 2-5 November 2014, Long Beach CA

Desert Pedology, Land Use and Wild Lands - Las Vegas to Long Beach. Soil Science Society of America, Field Trip, 31 October – 1 November 2014

Urban Soils, Agriculture and Brownfields - Los Angeles Basin. Soil Science Society of America, Tour, 2 November 2014

Field Concepts and Methods in Geoarcheology, Soil description, Soil-stratigraphic and Geophysical Approaches to Landscape and Site Investigations – Kansas and Nebraska, University of Kansas, Field Trip, Summer 2012

Teaching Method Training Course. University of Sulaimani, Spring 2010, Sulaimani, KRG, Iraq

Interviewer Training Course. National Survey of Iraq, Oxford Research International LTD, 2005, Dhok, KRG, Iraq

FELLOWSHIPS, AWARDS, AND HONORS

Chrysalis Scholarship, Association for Women Geoscientists, 2016 (\$750)

SSSA Pedology Division Student Presentation Competition, 1st Place Poster Award, 2014 (\$200)

Letter of recognition of outstanding work, Office of Vice-President, Scientific Affairs and Postgraduate Studies, University of Sulaimani, 2009

Letter of recognition of outstanding work, Presidency of Sulaimani University, 2005

The Higher Committee for Education Development in Iraq (HCED), Higher Education Student Scholarship Program, 2010-2015 (\$91,000)

Honored Student Award, 1st Place for Outstanding Performance, Jalal Talabani, Presidential Board of the Governing Council of Iraq, 2004 (\$1000)

RESEARCH AND TRAVEL GRANTS

Conference Fund for Graduate Students, Department of Geography and Atmospheric Science, University of Kansas, 2015 (\$270)

Kollmorgen Scholarship, Department of Geography and Atmospheric Science, University of Kansas, 2014 (\$500)

Conference Fund for Graduate Students, Department of Geography and Atmospheric Science, University of Kansas, 2014 (\$250)

PROFESSIONAL EXPERIENCE

Soil monolith collection and preparation, 2015

Scanning excavation walls and soil monolith using multistriple laser triangulation (MLT) to obtain quantitative soil structure information, various soils in northeastern Kansas, 2014

Interviewer supervisor in Sulaimaniah area, Qualitative and Quantitative, Survey and Research Company, 2008

Interviewer in several villages in the Kurdistan Region to gather social, economic, and political data. Oxford Research International LTD, National Survey of Iraq, November 2005

SERVICE

Judge for Student Competition, Soil Science Society Annual Meeting, 2015

Volunteer Visiting Lecturer, Geography classes for Geography of North and South America (3rd year students), Department of Geography, University of Khanqin, 2009-2010

PROFESSIONAL AFFILIATIONS

Golden Key International Honour Society (KG), 2016-present
Association for Women Geoscientist (AWG), 2016-present
European Geosciences Union (EGU), 2015-present
American Geophysical Union (AGU), 2014-Present
International Union of Soil Science (IUSS), 2014-Present
Association of American Geographers (AAG), 2014-Present
Soil Science Society of America (SSSA), 2014-Present
National Geographic Society, 2011-Present
Kurdistan Academician Society, 2009-Present
Kurdistan Geographic Union, 2009-Present
Kurdistan Students Union, 1995-1998

SOFTWARE EXPERIENCE

Mapping Tools: ArcGIS 10.2; eCognition

Statistical Tools: R Statistical Programming Language; SPSS

Database Tools: Microsoft Access

LANGUAGE SKILLS

Kurdish/Sorani

Spoken: Advanced

Written: Advanced

Read: Advanced

English

Spoken: Advanced

Written: Advanced

Read: Advanced

Arabic

Spoken: Intermediate

Written: Advanced

Read: Advanced