

DAVID KWAW-MENSAH

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EDUCATION

Ph.D. Agricultural Education – <i>Iowa State University</i>	2008
Ph.D. Minor in Environmental Science – <i>Iowa State University</i>	2008
M.S. Soil Science – <i>Iowa State University</i>	2005
M.S. Land Use Planning – <i>University of Pretoria, South Africa</i>	1996
B.S. Agriculture – <i>Kwame Nkrumah Univ. of Sci. & Tech, Ghana</i>	1982

PROFESSIONAL EXPERIENCE

Assistant Teaching Professor, (100% teaching) Effective 2019
Department of Agronomy, Iowa State University
Teach the following courses, Agronomy 512 (Soil-Plant Environment),
Agronomy 532 (Soil Management),
Agronomy 592 (Current Issues in Agronomy)
Agronomy 599M (Creative Component)

Research Associate/Lecturer in Soil Management 2012–2019
Department of Agronomy, Iowa State University
Coordinated and managed research activities in soil management
projects with corn-soybean cropping systems, manage laboratory
and field experiments, collected and analyzed field and laboratory data, wrote
reports and prepared manuscripts for publication.
Taught AGRONOMY 532, 512 in fall 2017 and AGRONOMY 601 in spring
2018.

Assistant Professor of Practice (50% Teaching and 50% Research)
Department of Agricultural Leadership Education & Communication
University of Nebraska-Lincoln 2011–2012
Taught undergraduate Ethics course,
Environmental leadership course, and Graduate level
leadership course.
Researched teaching introductory life science courses in
Colleges of Agriculture

Graduate Faculty Associate, *Department of Agricultural Leadership,* 2008–2011
Education & Communication, University of Nebraska-Lincoln
Assistant Extension Educator
Planned, marketed, and taught farmers and 4-H youth, conducted
and evaluated research-based educational programs in food production,
corn-soybean cropping systems, natural resources/soil science and
4-H youth development.

Adjunct Faculty (100% Teaching) 2009
Department of Agronomy, Northeast Community College,
Norfolk, Nebraska
Taught AGRI 1280-Crop Chemicals

Instructor – *Iowa Master Gardeners* 2003–2008

Extension Administration Internship 2007
Office of the Provost Cooperative
Extension, Iowa State University

PROFESSIONAL EXPERIENCE (cont.)

Graduate Assistant (Research and Teaching)	2005-2008
<i>Department of Agricultural Education and Studies, Iowa State University</i>	
Conducted research on perceptions of Extension Educators on liquid swine manure use in crop production	
Prepared course syllabus, material and taught “Personal and Professional Leadership in Agriculture” AGEDS 315 Fall 2007 and Spring 2008	
Senior Lecturer – <i>University of Fort Hare, South Africa</i>	1997–2002
<i>Department of Agricultural Extension and Rural Development</i>	
Taught Agricultural Land Use Planning	
Conducted research on agricultural land use systems in the former Ciskei in the Eastern Cape of South Africa	
Lecturer – <i>Namibia University of Science & Technology, Namibia</i>	1996–1997
<i>School of Natural Resource Management & Tourism</i>	
<i>Department of Sustainable Development</i>	
Taught Agriculture, Soil Science, and Chemistry	
Expatriate Science Teacher – <i>Ministry of Education & Sport, Zambia</i>	1989–1995
<i>Senanga Secondary School, Western Province, Zambia</i>	
Taught Physics and Environmental Science	
Science Teacher – <i>Ministry of Education, Ghana</i>	1987–1989
<i>Half Assini Secondary School, Western Region, Ghana</i>	
Taught Physics, Chemistry and Biology	
Farm management/Agronomy Internship – <i>Crop Research Institute, Aiyinasi, Western Region, Ghana,</i>	1981
Irrigation Management/Agronomy Internship – <i>Irrigation Company of Upper East Region, Ghana</i>	1980

PROFESSIONAL & COMMUNITY SERVICE

Reviewer , Soil Science Society of America Journal	2020
Reviewer , Sustainability (MPDI)	2020-present
Reviewer , Agriculture (MPDI)	2020-present
Reviewer , Molecules (MPDI)	2020-present
Panel Expert , Students’ Research Projects	2016-present
World Food Prize Global Youth Institute, Des Moines, Iowa	
Reviewer , African Journal of Food, Agriculture, Nutrition and Development (AJFAND).	2012–present
Reviewer , Journal of Agriculture Education and Extension (JAEE)	2010–2015
Member , University of Fort Hare Research Farm Committee	1997–2002
Guided and oversaw the management of all research farm operations.	
Member , Land Use Planning Committee, Fort Cox College of Forestry and Agriculture. South Africa. Developed and monitored the Agricultural Land use plan for the College.	1997–2002

PROFESSIONAL & COMMUNITY SERVICE (cont.)

- External Examiner**, Land Use Planning Projects Fort Cox College of Forestry and Agriculture, South Africa 1997–2002
- Team leader**, Lovedale-Ntselamanzi Community Garden Project 2001–2002
- Member**, Land Use Planning Project, Mount Pleasant Community Farm Adelaide, Eastern Cape South Africa. I did soil pit description and recommended appropriate land use system for the community. 1999
- Member**, National Department of Agriculture, Directorate of Agricultural Resources Conservation, Pretoria. Part of a four-member research team that developed an “annotated database of research in rural livelihoods and agricultural production from 1987 to 1999 in the Former Ciskei and Transkei areas of the Eastern Cape of South Africa.” 1999
- Member**, Standard Generating and Assessment Task Teams, Applied Agriculture and Agricultural Technology, Department of Education, Pretoria, South Africa. 1998
- Member**, International Thematic Working Group (ITWG) in Sustainable Land Use Systems of the Rural Development Information, Republic of South Africa through Telematics (RDISAT) Project. An international co-operation between Institutions of Higher Agricultural Learning in South Africa, Wageningen Agricultural University (WAU) and The International Institute for Aerospace Survey and Earth Sciences (ITC), The Netherlands. 1997–2002

REFEREED PUBLICATIONS

- Hao, X.X., Han, X. Z., Zou, W. X., Wang, S. Y., and **Kwaw-Mensah, D.** 2020. Changes in soil organic and its fractions after 13 years of continuous straw return in a soybean-maize cropping system. *Applied Ecology and Environmental Research* 18 (6): 8267-8284.
- Lu, X.C., Han, X. Z., Chen, X., Yan, Y., You, M. Y., **Kwaw-Mensah, D.**, Hao, X.X., Zou, W. X. 2020. Changes of soil phosphorus fractions in parent material of a mollisol at the early pedogenic stage in northeast China. *Applied Ecology and Environmental Research* 18(2): 2935-2948.
- Mahdi M. Al-Kaisi, and **David Kwaw-Mensah.** 2020. Quantifying Soil Carbon Change in a long-term tillage and crop rotation study across Iowa Landscapes. *Soil Sci. Soc. Am. J.* 2020:1-21.
- Mahdi M. Al-Kaisi, **David Kwaw-Mensah** and En CI. 2017. Effect of nitrogen fertilizer application on corn residue decomposition in Iowa. *Agronomy Journal* 109 (5):1-13. doi:10.2134/agronj201611.0633.
- Mahdi Al-Kaisi, Sotirios V. Archontoulis and **David Kwaw-Mensah.** 2016. Soybean spatiotemporal yield and economic variability as affected by tillage and crop rotation. *Agronomy Journal* 108:1-14.
- Mahdi M. Al-Kaisi, Sotirios V. Archontoulis, **David Kwaw-Mensah**, and Fernando Miguez. 2015. Tillage and crop rotation effects on corn agronomic response and economic return at seven Iowa locations. *Agronomy Journal* 107:1411-1424.
- Mahdi Al-Kaisi, Roger Elmore, Gerald A. Miller and **David Kwaw-Mensah.** 2015. Extension agriculture and natural resources in the U.S. Midwest: A review and analysis of challenges and future opportunities. *Natural Sciences Education Journal* 44:26-33. Doi:10.4195/nse2014.10.0022.

REFEREED PUBLICATIONS (cont.)

- Al-Kaisi, M. M., A. Douelle, and **David Kwaw-Mensah**. 2014. Water Stability of soil micro and macro aggregates under different tillage systems. **Soil and Water Conservation Journal** 69:563-569.
- David Kwaw-Mensah** and Robert A. Martin. 2013. Perceptions regarding selected educational strategies used by Extension Educators. **Journal of Agricultural Education and Extension** 19:395-406.
- Camara, M., Martin, R. A. and **David Kwaw-Mensah**, 2009. Water quality issues in the North Central region of the United States: A Teaching-Learning model. **Journal of Sustainable Agriculture** 33:285-302.
- Al-Kaisi, Mahdi, and **David Kwaw-Mensah**. 2007. Effect of tillage and nitrogen rate on corn yield and nitrogen and phosphorus uptake in a corn-soybean rotation. **Agronomy Journal** 99:1548-1558.
- David Kwaw-Mensah** and Mahdi Al-Kaisi. 2006. Tillage and nitrogen source and rate effects on corn response in corn-soybean rotation. **Agronomy Journal** 98:507-513.
- David Kwaw-Mensah**, Laker, M and Belete, A. 2000. Contributions of farming systems research to sustainable agriculture in Africa: An example from Zambia. **The Land** 4.1:3-14.

SELECTED CONFERENCE PROCEEDINGS AND ABSTRACTS

- Mahdi Al-Kaisi and **David Kwaw-Mensah**. 2018. Long-term tillage and crop rotation effects on yield, economic returns, and soil organic carbon in Iowa. Proceedings of the 30th Annual Integrated Crop Management Conference, November 28-29, 2018. Iowa State University, Ames Iowa. p. 141-158.
- Mahdi Al-Kaisi, **David Kwaw-Mensah** and Sotirios Archontoulis. 2016. Long-term tillage and crop rotation effects on soil, yield and economic returns. **Proceedings of the 28th Annual Integrated Crop Management Conference**, November 30-December 1, 2016. Iowa State University, Ames Iowa. p. 157-177.
- Mahdi Al-Kaisi and **David Kwaw-Mensah**. 2018. Long-term tillage and crop rotation effects on yield, economic returns, and soil organic carbon in Iowa. **Proceedings of the 30th Annual Integrated Crop Management Conference**, November 28-29, 2018. Iowa State University, Ames Iowa. p. 141-158.
- Mahdi Al-Kaisi, **David Kwaw-Mensah**, and Guzman, J. 2012. Conservation Systems: Benefits in managing drought and mitigating yield loss by improving soil quality. **Proceedings of the 24th Annual Integrated Crop Management Conference**, November 28-29, 2012. Iowa State University, Ames, IA, USA. p. 163-167.
- Batts, A., Martin, R., Vikram, K. & **David Kwaw-Mensah**. 2009. A framework for agricultural awareness and literacy. **The Proceedings of the American Association for Agricultural Education**, Louisville, KY, USA.
- Mahdi Al-Kaisi and **David Kwaw-Mensah**. 2014. Effect of nitrogen on corn residue decomposition. Abstract. **ASA, CSSA and SSSA International Annual meeting**, Long Beach, CA, USA. November 2-4, 2014.

EXTENSION AND POPULAR PRESS ARTICLES

- Mahdi Al-Kaisi and **David Kwaw-Mensah**. 2016. Iowa Soil Health Field Guide. CROP 3089A. **Iowa State University Extension and Outreach**, Ames, IA, USA.
- Mahdi Al-Kaisi and **David Kwaw-Mensah**. 2016. Iowa Soil Health Management Manual. CROP 3090. **Iowa State University Extension and Outreach**, Ames, IA, USA.
- Mahdi Al-Kaisi and **David Kwaw-Mensah**. 2016. Building Soil Health. 3090B July 2016. Iowa State University Extension and Outreach, Ames, IA, USA.
- David Kwaw-Mensah**, M. A. Licht, and M. M. Al-Kaisi. March 15, 2004. Manure sampling, calibration and application. **Hub and Spokes Newsletter, Iowa State University**, Ames, IA, USA.

SELECTED POSTERS AND PRESENTATIONS

- Mahdi Al-Kaisi and **David Kwaw-Mensah**. 2017. Effect of nitrogen application on corn residue decomposition in Iowa. **Soil Health Conference, Iowa State University**, Ames, IA, USA. February 16-17, 2017. (Poster)
- Mahdi Al-Kaisi, **David Kwaw-Mensah** and Ohene Akuoko. 2016. Building soil Health for sustainable agriculture. Abstract. **First Inaugural Soil Health Conference, Iowa State University**, Ames, IA, USA. February 2-3, 2016. (Poster)
- David Kwaw-Mensah**, M. A. Licht and M. M. Al-Kaisi. June 1, 2004. In-season nitrate evaluation for manured corn. **Hub and Spokes Newsletter, Iowa State University**, Ames, IA, USA.
- Licht, M. A., **David Kwaw-Mensah** and M. M. Al-Kaisi. June 1, 2004. Soil compaction: Impacts for manure application. **Hub and Spokes Newsletter, Iowa State University**, Ames, IA, USA.
- David Kwaw-Mensah**, M. Al-Kaisi and M. A. Licht. 2004. Effects of tillage and N source and water extraction in corn. **North Central American Society of Agronomy Conference**. Moline, IL. USA. (Poster)
- David Kwaw-Mensah**, M. Al-Kaisi and M. A. Licht. 2003. Effect of integrated tillage and nutrient management on N and water use efficiency in corn. **American Society of Agronomy Conference**. Denver, CO. USA. (Poster)
- David Kwaw-Mensah**. 2000. The role of higher education in agricultural development in Africa. **Purdue University, West Lafayette, IN**, USA. (Presenter)
- David Kwaw-Mensah**, 2000. Some aspects of crop production in Africa: An example from Zambia. **Agronomy Department Seminar, Iowa State University**, Ames, IA, USA.
- David Kwaw-Mensah**, 1996. Causes of low agricultural productivity in the Senanga District of Zambia. **Institute for Soil, Climate and Water**, Pretoria, South Africa. (Presenter)

AWARDS AND HONORS

- Center for Excellence in Learning & Teaching (CELT) Certificate of Achievement
Iowa State University 2019
- PhD Research and Dissertation Excellence Award, *Iowa State University* 2008
- Best Lecturer of the Year Award, *University of Fort Hare, South Africa* 2002
- Fellow, International Higher Education Loan Program (I-HELP)
Iowa State University 2000

PROFESSIONAL ASSOCIATION AFFILIATIONS

American Society of Agronomy (**ASA**)

American Association for Agricultural Education (**AAAE**)

Association for International Agricultural and Extension Education (**AIAEE**)

Agronomists, Soil Scientists, Plant Breeders and Extension Specialists

Soil Science Education

International Union of Soil Science (**IUSS**)

Sustainable Agriculture