

CURRICULUM VITAE

Sleem Ali Kreba

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 - Google Scholar: <https://scholar.google.com/citations?user=JiZPLbEAAAAJ&hl=en>
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EDUCATION

- Ph.D., Soil and Water Sciences
Department of Plant and Soil Sciences, University of Kentucky
(USA) 2013
- M.Sc., Water Resource Engineering
Agricultural and Bioresource Engineering Department, University of
Saskatchewan (Canada) 2009
- English as a Second Language, University of Saskatchewan (Canada) 2006
- B.Sc., Soil and Water Sciences Department, University of Omar Al Mukhtar
(designated as the best student in the graduating class in the college)
(Libya) 1999

EXPERIENCE

- Jan. 1, 2025 – present: Assistant Professor, Department of Environmental Engineering and Sciences, The Libyan Academy for Postgraduate Studies.
- April 1, 2026 – present: Editor of basic science school, Journal of Academic Research.
- Jan. 1, 2023 – Dec. 30, 2024: Assistant Professor, Department of

Environmental Sciences, Sciences College, Alasmarya Islamic University.

May 1, 2022 – Dec. 30, 2024: A member of a research agenda committee, International Cooperation Office, Alasmarya Islamic University.

May 1, 2024 – July 30, 2024: Cooperative lecturer, Department of Engineering and Environmental Sciences, The Libyan Academy for postgraduate studies, Misurata.

Jan. 1, 2021 – Dec. 30, 2022: Lecturer, Department of Environmental Sciences, Sciences College, Alasmarya Islamic University.

Aug. 1, 2016 – Dec. 30, 2020: Lecturer, Department of Marine Environmental Sciences, Marine Resources College, Alasmarya Islamic University.

Sep. 25, 2018 – May 30, 2019: Director of Faculty Affairs Office, Marine Resources College, Alasmarya Islamic University.

Feb. 15, 2015 – Jun. 1, 2016: Cooperative lecturer, Department of Marine Environmental Science, Marine Resources College, Alasmarya Islamic University.

Aug. 15, 2014 – Jan. 15, 2015: Cooperative lecturer, Higher Institute of Engineering Technology Zliten.

Spring 2011: Teaching assistant, Department of Plant and Soil Sciences, University of Kentucky.

Spring 2010: Teaching assistant, Department of Plant and Soil Sciences, University of Kentucky.

Aug. 2009 – Nov. 2013: Graduate research assistant (Ph.D.), Department of Plant and Soil Sciences, University of Kentucky.

Jun. 2008 – Feb. 2009: Research assistant, University of Saskatchewan.

Aug. 2006 – Mar. 2009: Graduate research assistant (M.Sc.), Agricultural and Bioresource Engineering Department, University of Saskatchewan.

Winter 2008: Teaching assistant, Agricultural and Bioresource Engineering Department, University of Saskatchewan.

Jan. 2000 – Sep. 2004: Administrator, Almnara Administration Office, Zliten, Libya.

PUBLICATIONS

Peer-reviewed articles

Benzaghta, M., **Kreba, S.**, Ali, M., Zaghinin, I. 2025. Treated municipal wastewater for irrigation: A case study from Misurata City, Libya.

- International Journal of Environmental Technology and Management*, 28(1-3), 190-212.
- Kreba, S.** 2024. Environmental impacts of climate change: A comprehensive review of causes, manifestations, and solutions. *Journal of Nature, Life and Applied Sciences*, 8(1), 19-39. doi:10.26389/AJSRP.S270124
- Kreba, S.** 2022. Impacts of olive mill wastewater on soil environment in the Mediterranean region. *Journal of Nature, Life and Applied Sciences*, 6(4): 68-87. doi.org/10.26389/AJSRP.L130922
- Kreba, S.** 2019. Soil salinity: Causes and impacts on agriculture and the environment. *Journal of Agricultural, Environmental and Veterinary Sciences*, 3(4): 18-32. doi:10.26389/AJSRP.S070419
- Yang, Y., O. Wendroth, **S. Kreba**, and B. Liu. 2019. Estimating near-saturated soil hydraulic conductivity based on its scale-dependent relationships with fundamental soil properties. *Vadose Zone Journal*. doi:10.2136/vzj2018.12.0217.
- Kreba, S.**, O. Wendroth, M. Coyne, and R. Walton. 2017. Soil gas diffusivity, air-filled porosity, and pore continuity: Land use and spatial patterns. *Soil Science Society of America Journal*. doi:10.2136/sssaj2016.10.0344.
- Kreba, S.**, M. Coyne, R. McCulley, and O. Wendroth. 2013. Spatial and temporal patterns of carbon dioxide flux in crop and grass land-use systems. *Vadose Zone Journal*. doi:10.2136/vzj2013.01.0005.
- Kreba, S.**, and C. Maule. 2010. Estimating soil water fluxes with tracers and TDR under controlled laboratory conditions. *Canadian Society of Biosystems Engineering* 52: 1.9-1.17.

Conference presentations and papers

- Kreba, S.**, O. Wendroth, M. Coyne, and R. McCulley. May 22-24, 2013. Spatial and temporal patterns and associations of CO₂ flux in crop and grass systems. Southern Regional Group Meeting (S-1048). Lexington, KY, USA.
- Kreba, S.**, O. Wendroth, and M. Coyne. 2012. Soil gas diffusivity and air-filled porosity and their spatial patterns in crop and grass systems. ASA-CSSA-SSSA International Meeting. Cincinnati, OH, USA.
- Kreba, S.**, O. Wendroth, M. Coyne, and R. McCulley. 2012. Spatial and temporal patterns of CO₂ flux in crop and grass systems. ASA-CSSA-SSSA International Meeting. Cincinnati, OH, USA.

- Wendroth, O., **S. Kreba**, R. McCulley, and M. Coyne. 2012. Space-time field of soil carbon respiration in two land-use systems. Hydropedology Conference. Leipzig, Germany.
- Kreba, S.**, O. Wendroth, and M. Coyne. 2011. Land use impact on soil structure. ASA-CSSA-SSSA International Meeting. San Antonio, TX, USA.
- Kreba, S.**, O. Wendroth, R. Walton, and R. McCulley. 2011. Temporal stability of soil water storage, carbon dioxide, and nitrous oxide fluxes. ASA-CSSA-SSSA International Meeting. San Antonio, TX, USA.
- Wendroth, O., **S. Kreba**, and R. McCulley. 2011. Space-time field of CO₂ flux at the land surface. Soil Processes PD Conference. Asheville, NC, USA.
- Kreba, S.**, O. Wendroth, and M. Coyne. 2011. Estimating impacts of land use and management on soil structure. KWRRI Conference. Lexington, KY, USA.
- Kreba, S.** and C. Maule. 2008. Effects of seasonality upon water and solute movement in the unsaturated zone. Canadian Society of Biosystems Engineering (CSBE) Conference. Vancouver BC, Canada. Paper No. 08-166.
- Kreba, S.** and C. Maule. 2008. The capability of TDR for estimating soil water fluxes using tracer methods. North Central ASABE/CSBE Conference. Winnipeg MB, Canada. Paper No. RRV 08-202.

Other publications

- Kreba, S.A.** 2013. Land-use impact on soil gas and soil water transport properties. Ph.D. Dissertation, University of Kentucky, Lexington KY.
- Kreba, S.A.** 2009. Effect of seasonal water fluctuation upon solute movement within a porous media. M.Sc. Thesis, University of Saskatchewan, Saskatoon SK.

Journal Reviewing Activity

I have participated in reviewing manuscripts for publications in peer-reviewed journals and conference proceedings including:

- Journal of Applied Soil Ecology.
- Journal of Soil Science and Plant Nutrition.
- Journal of Natural Resources and Life Science Education.
- Agriculture, Ecosystems and Environment Journal.
- Al-Asmarya Islamic University Journal.
- Journal of Misurata University of Agricultural Sciences.

- The 2nd Conference on Environmental Sciences in Zliten, Libya, 2015.
- The 2016 International Conference on Water Resource and Environment (WRE2016) in Shanghai, China.
- The 2017 International Conference on Water Resource and Environment (WRE2017) in Qingdao, China.
- 1st National Conference on Marine and Groundwater Pollution in Tripoli, Libya, 2018.
- 3rd Scientific Conference on Agricultural Sciences in Misurata, Libya, 2023.

GRANTS AND FELLOWSHPS

- Travel Support Award, Graduate School, University of Kentucky, 2012.
- Travel Support Award, Department of Plant and Soil Sciences, University of Kentucky, 2012.
- Travel Support Award, Graduate School, University of Kentucky, 2011.
- Kentucky Water Resources Research Institute (KWRI) Student Research Enhancement Award, 2010, \$5000.00

AWARDS AND HONORS

- Alasmarya Islamic University Awards for Scientific Excellence, Alasmarya Islamic University, 2019.
- Delta Epsilon Iota Honor, University of Kentucky, 2012.
- Post-graduate (Ph.D.) Scholarship, Libyan Ministry of Higher Education and Scientific Research (MOESR), 2011.
- Golden Key International Honor, 2010.
- Departmental Scholarship, University of Saskatchewan, 2007.
- Departmental Scholarship, University of Saskatchewan, 2006.
- Post-graduate (M.Sc.) Scholarship, Libyan Ministry of Higher Education and Scientific Research (MOESR), 2003.
- Honor and designated as the best student in the graduating class in the Agriculture College, University of Omer Almkhtar (Libya), 1999.

This curriculum vitae was updated last time on May 13, 2026.