

Virginia L. Jin, Research Soil Scientist
USDA Agricultural Research Service, Lincoln, NE

Education and Training:

PhD - University of Georgia - Plant Biology, 2004
MFR - University of Georgia - Forest Resources, 2000
BS -Duke University - Biology, English, 1996

Experience:

2009 - present Research Soil Scientist, USDA-Agricultural Research Service, Lincoln, NE
2010 - present Adjunct Faculty, Agronomy & Horticulture, University of Nebraska-Lincoln
2006 - 2009 Research Ecologist, USDA-Agricultural Research Service, Temple, TX
2007 - 2008 Visiting Scholar, Geological Sciences, University of Texas-Austin
2004 - 2006 Postdoctoral Research Associate, Washington State University, Pullman, WA

Accomplishments and Current Research:

Dr. Jin's research assesses how conventional and conservation management practices (i.e., crop rotation, tillage, irrigation, fertilization, residue removal, cover crops) affect soil functioning and agroecosystem sustainability in grain and biofuel feedstock production systems.

Selected Refereed Publications (of 75; 36 on perennial grass/bioenergy production systems):

- Jin VL, Schmer MR, Stewart CE, Mitchell RB, Williams CO, et al. (2019) Management controls the net greenhouse gas outcomes of growing bioenergy feedstocks on marginally productive croplands. *Science Advances*, 5, eaav9318.
- Jin VL, Schmer MR, Stewart CE, Sindelar AJ, Varvel GE, Wienhold BJ (2017) Long-term no-till and stover retention each decrease the global warming potential of irrigated continuous corn. *Global Change Biology*, 23, 2848-2862.
- Schmer MR, Jin VL, Wienhold BJ (2015) Sub-surface soil carbon changes affect biofuel greenhouse gas emissions. *Biomass and Bioenergy*, 81, 31-34.
- Schmer MR, Vogel KP, Varvel GE, Follett RF, Mitchell RB, Jin VL (2014) Energy potential and greenhouse gas emissions from bioenergy cropping systems on marginally productive cropland. *PLoS One*, 9, e89501.

Synergistic Activities

- Leader, Soil Carbon and Greenhouse Gas Community, American Society of Agronomy, 2020
- Associate Editor: *Agronomy Journal*; *Renewable Agriculture and Food Systems*
- Editorial Advisory Board: *Global Change Biology-Bioenergy*
- Grant Proposal Review Panels: US-Israel Binational Science Foundation, 2020; USDA NIFA Specialty Crop Research Initiative, 2020
- Manuscript peer-reviewer for 28 journals (2006 - present)
- Current Postdoc/Grad Committee Service: 1 postdoc (ARS); 4 PhD, 1 MS (UNL), 2 PhD (SDSU)
- Professional Membership: American Association for the Advancement of Science; American Geophysical Union; American Society of Agronomy, Soil Science Society of America