

CHANGYOON JEONG

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Education

Ph.D. 1998. Environmental Chemistry, Environmental Science Section,
School of Biological Science, University of Nottingham, UK.
M.S. 1991. Agricultural Chemistry, Korea University, Seoul, Korea.
B.Sc. 1987. Agricultural Chemistry, Korea University, Seoul, Korea.

Employment History:

February 2014 – Present:

Assistant Professor, Red River Research Station & School of Plant,
Environmental and Soil Sciences, AgCenter, Louisiana State University, Bossier
City, Louisiana.

August 2015 – Present:

Adjunct Professor, Department of Biological Science, College of Arts and
Sciences, Louisiana State University at Shreveport, Louisiana.

June 2008 – January 2014:

Research Scientist, School of Plant, Environmental and Soil Sciences, Louisiana
State University Agricultural Center.

November 2002 – May 2008:

Research Basin Coordinator, Department of Renewable Resources, University of
Louisiana at Lafayette, Louisiana.

January 2000 – October 2002:

Post-Doctoral Research Associate, Department of Agronomy, Kansas State
University, Manhattan, Kansas.

Membership in Professional Organizations

Member of American Agronomy Society. 2000 – Present

Member of American Crop Science Society. 2000 – Present

Member of American Soil Science Society. 2000 – Present

Member of American Chemical Society. 2006 – Present

Member of American Soil and Water Conservation Society. 2015- Present

Approved Proposals

Developing Real -Time CO₂ Gas Flux Measuring Chamber in the soil system. LSU
Leveraging Innovation for Technology Transfer (LIFT), Round5, 01/01/2017 -
12/31/2018, \$13,100.

Evaluation of Cover Crop Mixture on Row Crop Productivity through Quantified Soil
Health and Crop Production. USDA-NRCS CIG, 09/30/2017 – 09/29/2020, \$99,751.

Demonstration and education efforts regarding catastrophic losses in poultry operations. USDA-NRCS. 09/25/2017-09/02/2019. \$117,264.

Water quality and soil health improvement in Shifttail canal watershed. NRCS-RCPP, 10/01/2016 – 9/31/2019, \$503,982.

Demonstration of integrated irrigation management to improve water and nutrient use efficiency, soil health, and water quality in furrow irrigated agriculture. USDA-NRCS CIG, 9/30/2015-9/29/2018, \$74,408.

Demonstration of integrated legume- grass forage system to improve air and water quality through decreased N fertilization. USDA-NRCS CIG, 9/30/2015-9/29/2018, \$74,408.

Use of sugarcane residue and rice straw as biochar soil amendment to reduce greenhouse gas emission, enhance soil carbon sequestration, and improve water quality in sugarcane and rice production, USDA-NRCS CIG, 01/10/2011 – 09/30/2015, \$503,954.

Selected Publications

Miah, M.G., H.M. Abdullah, and **C.Y. Jeong**. 2017. Exploring standardized precipitation evapotranspiration index for drought assessment in Bangladesh. *Environmental Monitoring and Assessment* 189:547. First online: 09 October 2017. DOI 10.1007/s10661-017-6235-5.

Ku, H.H., **C.Y. Jeong**, and P. Colyer. 2017. Modelling Long-Term Effects of Hairy Vetch Cultivation on Cotton Production in Northwest Louisiana. *Science of the Total Environment* 624: 744 – 752. First online: <https://doi.org/10.1016/j.scitotenv.2017.12.165>

Jeong, C.Y., and J.H. Ham. 2017. Comparative analysis of the microbial community in the sediments of two constructed wetlands differentially influenced by the concentrated poultry feeding operations. *Journal of Soils and Sediments* 17(2): 557 – 566.

Jeong, C.Y., S.D. Dodla, and J.J. Wang. 2016. Fundamental and molecular composition characteristics of biochars produced from sugarcane and rice crop residues and by-products. *Chemosphere* 142: 4 – 13.