

Fahd Majeed

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EDUCATION

DOCTOR OF PHILOSOPHY in Agriculture and Applied Economics, *University of Illinois*, Urbana, IL 2023
Dissertation: "Payments for Carbon Mitigation by Agriculture: Implications For Risk, Land Use And biomass Supply"
Advisor: Madhu Khanna
Committee: Madhu Khanna (Chair), Ruiqing Miao, Nicholas Paulson, Shadi Atallah
MASTER OF SCIENCE in Agriculture and Resource Economics, *University of California*, Berkeley, CA 2012
MASTER OF ARTS in Economics, *Western Illinois University*, Macomb, IL 2010
BACHELOR OF ARTS in Economics, Minor in Computer Science, *Western Illinois University*, Macomb, IL 2008

PROFESSIONAL WORK EXPERIENCE

Postdoctoral Research Associate, *University of Illinois*, Urbana, IL 2023-present
Institute for Sustainability, Energy, and Environment (iSEE) &
Center for Advanced Bioenergy and Bioproducts Innovation (CABBI)
Senior Research Assistant, *Intl. Food Policy Research Institute (IFPRI)*, Washington, D.C. 2014-2017
Markets, Trade and Institutions Division (MTID)

PEER-REVIEWED PUBLICATIONS

PEER-REVIEWED JOURNAL ARTICLES

Majeed, F., M. Khanna, R. Miao, E. Blanc-Betes, T. Hudiburg, and E. Delucia. "Payment for carbon mitigation reduces riskiness of bioenergy crop production", *Journal of the Agricultural & Applied Economics Association*, April, 2023. <<https://doi.org/10.1002/jaa2.52>>

Tokgoz, S., S. Allen, F. Majeed, B. Paris, O. Adeola, E. Osabuohien. "Distortions to agricultural incentives: Evidence from Nigerian value chains", *Review of Development Economics*, April, 2020. <<https://doi.org/10.1111/rode.12664>>

Kassie, G., R. Wubie, S. Tokgoz, F. Majeed, M. Yitayih, and B. Rischkowsky. "Policy-induced price distortions along the small ruminant value chains in Ethiopia", *Journal of Agribusiness in Developing and Emerging Economies*, Vol. 9 No. 3, pp. 220-236, October, 2019. <<https://doi.org/10.1108/JADEE-02-2018-0024>>

Tokgoz, S., and F. Majeed. "Measuring distortions to agricultural incentives for value chain analysis: Evidence from Indian value chains", *Journal of Agricultural Economics*, Vol. 70 No. 2, pp. 275-292, June, 2019. <<https://doi.org/10.1111/1477-9552.12305>>

WORKS IN PROGRESS

PAPERS UNDER REVIEW

“Designing Cost-Effective Carbon Payments to Induce Cellulosic Feedstock Production for Sustainable Aviation Fuel”, with Madhu Khanna, and Ruiqing Miao. Revise and Resubmit in *Applied Economic Perspectives and Policy*.

“Solar Farming and Agrivoltaics as Potential Solutions for Sustainable Food and Energy Production”, with Madhu Khanna, Paul Mwebaze and others. Revise and Resubmit in *Journal of Benefit-Cost Analysis*.

“Advancing Agrivoltaics through a Systematic Design Framework: Guidelines for Integration and Informed Decision-Making”, with Xuzhi Du and others. Under Review in *Nature Sustainability*.

PAPERS IN PROGRESS

“Incentivizing Cover Crop Adoption: Effectiveness of Alternative Policy Approaches”, with Madhu Khanna, Ruiqing Miao, Jonathan Coppess, and Kaiyu Guan.

“Potential of Meeting Solar Energy Targets through Utility-Scale and Agrivoltaic Systems on US Cropland and Impacts on Farmer Returns”, with Madhu Khanna, Paul Mwebaze and others.

“Cover Crop Adoption in the Rainfed US via Adjustments to Federal Crop Premiums”, with Madhu Khanna, Joseph Cooper, and Ruiqing Miao.

“Sparing or Sharing Cropland for Row Crop Production with Solar Energy through Agrivoltaics”, with Madhu Khanna, Paul Mwebaze, and others.

“Choice Experiment of Midwestern Farmers to Adopt Utility-Scale and Agrivoltaic Solar Systems”, with Paul Mwebaze and others.

“Survey of Solar Developer Inclination to Adopt Agrivoltaic Solar Systems”, with Bijesh Mishra and others.

“Assessing the Impacts of Large-scale Agrivoltaics on Connections between the Hydrological Cycle and Crop Yield in the US Midwest”, with Mengqi Jia and others.

“Large-scale Agrivoltaics in the US Midwest Support Sustainable Food-energy Production and Alleviate Land-use Constraints”, with Mengqi Jia and others.

“Climate Drives Asymmetric Biophysical and Economic Impacts of Large-scale Agrivoltaics”, with Mengqi Jia and others.

OTHER RESEARCH AND TEACHING EXPERIENCE

Research Assistant, <i>University of Illinois</i> , Urbana, IL	2017-2022
<i>Center for Advanced Bioenergy and Bioproducts Innovation (CABBI)</i> , 2018-2022	
<i>Agriculture and Consumer Economics (ACE)</i> , 2017-2018	
Graduate Student Instructor, <i>University of California</i> , Berkeley, CA	2011-2012
• Instructor for two sections of Introduction to Economics (Econ 1) for B. DeLong	
• Instructor for two sections of Environmental Economics and Policy (EEP 1/Econ C3) for P. Berck	
• Grader for two sections of Industrial Organization (Econ 121) for A. Dey	
• Instructor for two sections of Introduction to Economics (Econ 1) for M. Olney	
Research Assistant, <i>Illinois Institute of Rural Affairs (IIRA)</i> , Macomb, IL	2010

Graduate Assistant, *Western Illinois University*, Macomb, IL

2009

- Grader for two sections of Introduction to Economics (Econ 100) for G. Haynes

NON-PEER-REVIEWED PUBLICATIONS

DISCUSSION PAPERS

Majeed, F., S. Tokgoz, S. Allen, and B. Paris. “Measuring distortions along Tanzanian agricultural value chains”, *IFPRI Discussion Paper*, No. 01748, May, 2018. [<link>](#) [<pdf>](#)

Laborde, D., F. Majeed, S. Tokgoz, and M. Torero. “Long-term drivers of food and nutrition security”, *IFPRI Policy Brief*, No. 01531, May, 2016. [<link>](#) [<pdf>](#)

POLICY BRIEFS, AND OUTREACH PUBLICATIONS

Laborde D., Lallemand, T., Majeed, F., Mamun, A., Martin, W., S. Tokgoz. “Introducing the Updated AgIncentives Database”, *IFPRI Data Paper*, June, 2023. <https://doi.org/10.2499/p15738coll2.136729> [<pdf>](#)

Allen, S., Kassie, G., Majeed, F., and S. Tokgoz. “Policy-induced market distortions along agricultural value chains: Evidence from Ethiopia and Nigeria”, *IFPRI Policy Brief*, May, 2021. <https://doi.org/10.2499/9780896294158> [<pdf>](#)

Majeed, F. “Civic Scientist series - Voices from our network”, *Green Lands Blue Waters*, Minnesota Institute for Sustainable Agriculture at the University of Minnesota, November, 2020. [<link>](#)

Laborde D., Martin, W., Tokgoz, S., Lallemand, T., F. Majeed. “Poverty impacts of widely adopted CGIAR innovations”, *IFPRI Policy Brief*, October, 2017. [<link>](#) [<pdf>](#)

Majeed, F., S. Tokgoz, and B. Paris. “Distortions to agricultural incentives”, *IFPRI Food Security Portal blog*, June, 2016. [<link>](#)

Tokgoz, S., and F. Majeed. “Price transmission across value chains”, *IFPRI Food Security Portal blog*, September, 2015. [<link>](#)

PRESENTATIONS, POSTERS AND WORKSHOPS

PRESENTATIONS

“Designing Cost-Effective Carbon Payments to Induce Cellulosic Feedstock Production for Sustainable Aviation Fuel”, at the *Agricultural & Applied Economics Association (AAEA) Annual Meeting*, Denver, CO, July 27, 2025. [<pdf>](#)

“Alternatives to Utility-Scale Solar on agricultural lands: Adoption potential and impacts of utility-scale and agrivoltaic solar on permanent and marginal cropland”, at the *Agricultural & Applied Economics Association (AAEA) Annual Meeting*, New Orleans, LA, July 29, 2024. [<pdf>](#)

“Inducing Climate Smart Agricultural Practices: Spatial heterogeneity, risks, and policy incentives”, at the *Agricultural & Applied Economics Association (AAEA) Annual Meeting*, New Orleans, LA, July 29, 2024.

“Designing payments to induce Low Carbon Sustainable Aviation Fuel production in US croplands”, at the *Agricultural & Applied Economics Association (AAEA) Annual Meeting*, New Orleans, LA, July 29, 2024. [<pdf>](#)

“The cost of carbon farming to de-carbonize the economy”, at the *Agricultural & Applied Economics Association* (AAEA) Annual Meeting, Washington, D.C., July 25, 2023. [<pdf>](#)

“Payment for carbon mitigation reduces riskiness of bioenergy crop production”, at the *Agricultural & Applied Economics Association* (AAEA) Annual Meeting, Anaheim, CA, August 1, 2022. [<pdf>](#)

“Designing payments for GHG mitigation to induce low carbon bioenergy production”, at the *Agriculture and Consumer Economics, University of Illinois Program in Environmental and Resource Economics* (pERE) seminar, Urbana, IL, November 30, 2020. [<link>](#)

“Designing payments for GHG mitigation to induce low carbon bioenergy production”, at the *Agricultural & Applied Economics Association* (AAEA) Annual Meeting, virtual, August 10, 2020. [<pdf>](#)

“Incentivizing ecosystem services from crop production: Implications for energy crop production by risk-averse farmers”, at the *American Geophysical Union Fall Meeting*, San Francisco, CA, December 12, 2019. [<link>](#)

“Incentivizing ecosystem services from crop production: implications for energy crop production by risk-averse farmers”, at the *Agriculture and Consumer Economics, University of Illinois Graduate Research Paper Celebration*, Urbana, IL, December 6, 2019.

“Incentivizing ecosystem services from crop production: implications for energy crop production by risk-averse farmers”, at the *Ecological Society of America & United States Society for Ecological Economics* (ESA/USSEE) Joint Meeting, Louisville, KY, August 16, 2019.

“Incentivizing ecosystem services from crop production: implications for energy crop production by risk-averse farmers”, at the *Institute for Sustainability, Energy, and Environment, University of Illinois Switchgrass V International Conference*, Champaign, IL, July 23, 2019. [<link>](#)

“Distortions to agricultural incentives in India: evidence from agricultural value chains”, at the *IFPRI Work in Progress seminar*, Washington, D.C., July 22, 2016.

POSTERS

“Designing Cost-Effective Carbon Payments to Induce Cellulosic Feedstock Production for Sustainable Aviation Fuel”, at the *Center for Advanced Bioenergy and Bioproducts Innovation Annual Meeting*, Urbana, IL, July 15, 2025.

“Carbon Mitigation Payments Can Reduce the Riskiness of Bioenergy Crop Production”, at the *Center for Advanced Bioenergy and Bioproducts Innovation Annual Meeting*, Urbana, IL, February 6, 2024.

“Designing carbon mitigation payments to induce low-carbon bioenergy production”, at the *Agricultural & Applied Economics Association AAEA Annual Meeting*, Anaheim, CA, August 2, 2022. [<pdf>](#)

“Effects of payments on the riskiness of returns to cellulosic ethanol feedstock production”, at the *Agricultural & Consumer Economics, University of Illinois External Review Meeting*, Urbana, IL, April 25, 2022.

“Effects of payments on the riskiness of returns to cellulosic ethanol feedstock production”, at the *Agricultural & Applied Economics Association AAEA Annual Meeting*, Austin, TX, August 1, 2021. [<pdf>](#)

“Designing payments for GHG mitigation to induce low carbon bioenergy production”, at the *Center for Advanced Bioenergy and Bioproducts Innovation Annual Meeting*, Urbana, IL, January 26, 2021.

“Effectiveness of payments for greenhouse gas mitigation to induce low carbon bioenergy production”, at the *US Department of Energy - Genomic Science Program* GSP Annual Principal Investigator Meeting, Washington, D.C., February 24, 2020. [<pdf>](#)

WORKSHOPS

Notetaker for *iSEE* Critical Conversation 2024 workshop “Harvesting the Sun: Integrating Solar with Agriculture in the Midwest”, Chicago, IL, November 13-14, 2024. [<link>](#)

Notetaker for *iSEE* Critical Conversation 2023 workshop “Climate-Smart Agricultural Practices and Resilience in the Midwest”, Chicago, IL, September 18-19, 2023. [<link>](#)

Trainer for *IFPRI* sponsored kick-off workshop “Agricultural distortions across value chains in Africa”, Washington, D.C., May 23-24, 2016.

PROFESSIONAL ACTIVITIES

Ad hoc referee for ERS, EE, LE.

SKILLS

Languages: Fluent in English, and Urdu

Computing Skills: MATLAB, GAMS, VBA, \LaTeX , QGIS, Stata, ArcGIS, Python, C++, Linux

LAST UPDATE

July 2025