

Fahd Majeed

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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)

OTHER RESEARCH AND TEACHING EXPERIENCE

Research Assistant, *University of Illinois, Urbana, IL* 2017-2022
Center for Advanced Bioenergy and Bioproducts Innovation (CABBI), 2018-2022
Agriculture and Consumer Economics (ACE), 2017-2018

Graduate Student Instructor, *University of California, Berkeley, CA* 2011-2012
Agriculture and Resource Economics (ARE) & Economics, 2011-2012

Research Assistant, *Illinois Institute of Rural Affairs (IIRA), Macomb, IL* 2010

Graduate Assistant, *Western Illinois University, Macomb, IL* 2009

EDUCATION

DOCTOR OF PHILOSOPHY in Agriculture and Applied Economics, *University of Illinois, Urbana, IL* 2022
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

PUBLICATIONS

PEER-REVIEWED JOURNAL ARTICLES

- 4 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>>
- 3 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>>

- 2 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>>
- 1 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>>

DISCUSSION PAPERS

- 2 Majeed, F., S. Tokgoz, S. Allen, and B. Paris. “Measuring distortions along Tanzanian agricultural value chains”, *IFPRI Discussion Paper*, No. 01748, May, 2018. <<https://www.ifpri.org/publication/measuring-distortions-along-tanzanian-agricultural-value-chains>>
- 1 Laborde, D., F. Majeed, S. Tokgoz, and M. Torero. “Long-term drivers of food and nutrition security”, *IFPRI Policy Brief*, No. 01531, May, 2016. <<https://www.ifpri.org/publication/long-term-drivers-food-and-nutrition-security-0>>

POLICY BRIEFS

- 1 Kassie, G., Allen, S., 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>>

OUTREACH PUBLICATIONS

- 3 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. <<https://greenland-sbluewaters.org/civic-scientists-series/>> <pdf>
- 2 Majeed, F., S. Tokgoz, and B. Paris. “Distortions to agricultural incentives”, *IFPRI Food Security Portal blog*, IFPRI, June, 2016. <<http://india.foodsecurityportal.org/regional-sub-portal-blog-entry/india/910>> <pdf>
- 1 Tokgoz, S., and F. Majeed. “Price transmission across value chains”, *IFPRI Food Security Portal blog*, IFPRI, September, 2015. <<http://india.foodsecurityportal.org/regional-sub-portal-blog-entry/india/453>> <pdf>

PRESENTATIONS, POSTERS AND WORKSHOPS

PRESENTATIONS

- 12 “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 AAEA Annual Meeting, *Agricultural & Applied Economics Association*, New Orleans, LA, July 29, 2024. Presented by F. Majeed. <<https://ageconsearch.umn.edu/record/343890/files/28895.pdf>>
- 11 “Inducing Climate Smart Agricultural Practices: Spatial heterogeneity, risks, and policy incentives”, at the AAEA Annual Meeting, *Agricultural & Applied Economics Association*, New Orleans, LA, July 29, 2024. Presented by F. Majeed.
- 10 “Designing payments to induce Low Carbon Sustainable Aviation Fuel production in US croplands”, at the AAEA Annual Meeting, *Agricultural & Applied Economics Association*, New Orleans, LA, July 29, 2024. Presented by F. Majeed. <<https://ageconsearch.umn.edu/record/344043/files/29333.pdf>>

- 9 “The cost of carbon farming to de-carbonize the economy”, at the AAEA Annual Meeting, *Agricultural & Applied Economics Association*, Washington, D.C., July 25, 2023. Presented by F. Majeed. <<https://ageconsearch.umn.edu/record/335923/files/26208.pdf>>
- 8 “Payment for carbon mitigation reduces riskiness of bioenergy crop production”, at the AAEA Annual Meeting, *Agricultural & Applied Economics Association*, Anaheim, CA, August 1, 2022. Presented by F. Majeed. <<https://ageconsearch.umn.edu/record/322277/files/22990.pdf>>
- 7 “Designing payments for GHG mitigation to induce low carbon bioenergy production”, at the Program in Environmental and Resource Economics (pERE) seminar, *Agriculture and Consumer Economics, University of Illinois*, Urbana, IL, November 30, 2020. Presented by F. Majeed. <<https://publish.illinois.edu/pereuiuc1/seminar-schedule/>>
- 6 “Designing payments for GHG mitigation to induce low carbon bioenergy production”, at the AAEA Annual Meeting, *Agricultural & Applied Economics Association*, virtual, August 10, 2020. Presented by F. Majeed. <<https://ageconsearch.umn.edu/record/304394/files/18576.pdf>>
- 5 “Incentivizing ecosystem services from crop production: Implications for energy crop production by risk-averse farmers”, at the Fall Meeting, *American Geophysical Union*, San Francisco, CA, December 12, 2019. Presented by F. Majeed. <<https://agu.confex.com/agu/fm19/meetingapp.cgi/Paper/491847>>
- 4 “Incentivizing ecosystem services from crop production: implications for energy crop production by risk-averse farmers”, at the Graduate Research Paper Celebration, *Agriculture and Consumer Economics, University of Illinois*, Urbana, IL, December 6, 2019. Presented by F. Majeed.
- 3 “Incentivizing ecosystem services from crop production: implications for energy crop production by risk-averse farmers”, at the ESA/USSEE Joint Meeting, *Ecological Society of America & United States Society for Ecological Economics*, Louisville, KY, August 16, 2019. Presented by F. Majeed.
- 2 “Incentivizing ecosystem services from crop production: implications for energy crop production by risk-averse farmers”, at the Switchgrass V International Conference, *Institute for Sustainability, Energy, and Environment, University of Illinois*, Champaign, IL, July 23, 2019. Presented by F. Majeed. <<https://sustainability.illinois.edu/outreach/annual-events-conferences/switchgrass-v-conference/>>
- 1 “Distortions to agricultural incentives in India: evidence from agricultural value chains”, at the Work in Progress seminar, *IFPRI*, Washington, D.C., July 22, 2016. Presented by F. Majeed.

POSTERS

- 6 “Carbon Mitigation Payments Can Reduce the Riskiness of Bioenergy Crop Production”, at the Annual Meeting, *Center for Advanced Bioenergy and Bioproducts Innovation*, Urbana, IL, February 6, 2024. Presented by F. Majeed.
- 5 “Designing carbon mitigation payments to induce low-carbon bioenergy production”, at the AAEA Annual Meeting, *Agricultural & Applied Economics Association*, Anaheim, CA, August 2, 2022. Presented by F. Majeed. <<https://ageconsearch.umn.edu/record/322278/files/22992.pdf>>
- 4 “Effects of payments on the riskiness of returns to cellulosic ethanol feedstock production”, at the External Review Meeting, *Agricultural & Consumer Economics, University of Illinois*, Urbana, IL, April 25, 2022. Presented by F. Majeed.
- 3 “Effects of payments on the riskiness of returns to cellulosic ethanol feedstock production”, at the AAEA Annual Meeting, *Agricultural & Applied Economics Association*, Austin, TX, August 1, 2021. Presented by F. Majeed. <https://ageconsearch.umn.edu/record/312883/files/Abstracts_21_06_15_23_45_54_56_24_13_125_115_0.pdf>
- 2 “Designing payments for GHG mitigation to induce low carbon bioenergy production”, at the Annual Meeting, *Center for Advanced Bioenergy and Bioproducts Innovation*, Urbana, IL, January 26, 2021. Presented by F. Majeed.

- 1 “Effectiveness of payments for greenhouse gas mitigation to induce low carbon bioenergy production”, at the GSP Annual Principal Investigator Meeting, *US Department of Energy - Genomic Science Program*, Washington, D.C., February 24, 2020. Presented by F. Majeed. <https://www.ornl.gov/gsp2020/abstracts/DeLucia_Majeed.pdf>

WORKSHOPS

- 3 Notetaker for *iSEE* Critical Conversation 2024 workshop “Harvesting the Sun: Integrating Solar with Agriculture in the Midwest”, Chicago, IL, November 13-14, 2024.
- 2 Notetaker for *iSEE* Critical Conversation 2023 workshop “Climate-Smart Agricultural Practices and Resilience in the Midwest”, Chicago, IL, September 18-19, 2023.
- 1 Trainer for *IFPRI* sponsored kick-off workshop “Agricultural distortions across value chains in Africa”, Washington, D.C., May 23-24, 2016.

PRESENTATIONS, POSTERS, AND WORKSHOPS BY CO-AUTHORS

- 9 Khanna, M., P. Mwebaze, F. Majeed, R. Miao, J. McCall and J. Macknick. “Modeling the Economic Incentives for Agrivoltaics”, at the Annual Sustainably Colocating Agricultural and Photovoltaic Electricity Systems (SCAPES) meeting, Colorado, September 3-4, 2023. Presented by M. Khanna.
- 8 Mwebaze, P., M. Khanna, F. Majeed, R. Miao, J. McCall and J. Macknick. “Spatial variability in the profitability of agrivoltaics in the US”, at the The Third Society for Benefit-Cost Analysis *European Conference*, Paris, November 3-4, 2022. Presented by P. Mwebaze. <https://sbcaec2022.sciencesconf.org/data/pages/accepted_panels_and_papers.pdf>
- 7 Mwebaze, P., M. Khanna, F. Majeed, R. Miao, J. McCall and J. Macknick. “A spatially varying leveled cost of electricity and profitability of agrivoltaics in the US”, at the Annual Conference, *The Society for Benefit-Cost Analysis*, virtual, March 22, 2022. Presented by P. Mwebaze. <<https://www.benefitcostanalysis.org/index.php?view=article&id=114>>
- 6 Tokgoz, S., and F. Majeed. “Redistributive impacts of policies on producers and consumers: lessons from Indian value chains”, at the 31st International Conference for Agricultural Economists, *International Association of Agricultural Economists*, virtual, August 24, 2021. Presented by S. Tokgoz. <<https://ageconsearch.umn.edu/record/315115>>
- 5 Tokgoz, S., and F. Majeed. “Measuring distortions to agricultural incentives for value chain analysis: Evidence from Indian value chains”, at the XV EAAE Congress *assoc*, Parma, Italy, August 29-September 1, 2017. Presented by S. Tokgoz. <<https://pim.cgiar.org/files/2017/09/PosterEAAE2017-TokgozMajeed.pdf>>
- 4 Martin, W., D. Laborde, S. Tokgoz, F. Majeed, and T. Lallemand. “The Ag-Incentives consortium database”, at the GTAP conference on global economic analysis, West Lafayette, IN, June 7-9, 2017. Presented by W. Martin. <https://www.gtap.agecon.purdue.edu/resources/res_display.asp?RecordID=5369>
- 3 Laborde, D., S. Tokgoz, F. Majeed, and T. Lallemand. “Towards a consolidated database of distortions agricultural incentives: the Ag-Incentives Consortium”, at the Seventh International Conference on Agricultural Statistics *assoc*, Rome, Italy, October 26-28, 2016. Presented by S. Tokgoz. <<http://www.ifpri.org/publication/towardsconsolidated-database-distortions-agricultural-incentives-ag-incentives>>
- 2 Tokgoz, S., and F. Majeed. “Distortions to agricultural incentives in India: evidence from agricultural value chains”, at the Annual Meeting *Agricultural and Applied Economics Association*, Boston, MA, July 31-August 2, 2016. Presented by S. Tokgoz. <<http://purl.umn.edu/236087>>
- 1 Tokgoz, S., and F. Majeed. “Agricultural distortions and value chains”, at the Training workshop *IFPRI-AGRODEP*, Dakar, Senegal, September 1-3, 2015. Presented by S. Tokgoz.

WORK EXPERIENCE DETAILS

RESEARCH EXPERIENCE DETAILS

2023- *Institute for Sustainability, Energy, and Environment (iSEE)*, Urbana, IL

present Topics: Photovoltaic and agrivoltaic solar energy.

Specific projects include:

- *Land for food vs. Land for Solar: An analysis of solar energy development on agricultural land* with Paul Mwebaze, Madhu Khanna, Ruiqing Miao, James McCall, and Jordan Macknick
- *Harnessing solar energy for food and fuel with agrivoltaics* with Paul Mwebaze, Madhu Khanna, Ruiqing Miao, James McCall, and Jordan Macknick
- *Spatial variability in agrivoltaic profitability in the US* with Xuzhi Du, Paul Mwebaze, Madhu Khanna, Ruiqing Miao, James McCall, and Jordan Macknick

2017- *Center for Advanced Bioenergy and Bioproducts Innovation (CABBI)*, Urbana, IL

present Topics: Bioenergy feedstocks, agriculture, and risk.

Specific projects include:

- *The cost of carbon farming to de-carbonize the economy* with M. Khanna and R. Miao
- *Designing carbon mitigation payments to induce low-carbon bioenergy production* with M. Khanna and R. Miao
- *Payment for carbon mitigation reduces riskiness of bioenergy crop production* with M. Khanna, R. Miao, E. Blanc-Betes, T. Hudiburg, and E. Delucia.
- Various projects for the *Biofuel and Environmental Policy Analysis Model (BEPAM)* with M. Khanna, L. Chen, J. Zhong and others

2014- *Markets, Trade and Institutions Division (MTID), International Food Policy Research Institute (IFPRI)*, Washington, D.C.

2017

Topics: Agricultural incentives, value chains, and partial equilibrium models for developing countries.

Specific projects include:

- *Integrated agriculture and renewable energy systems in India* with S. Tokgoz
- *Measuring distortions to agricultural incentives* with W. Martin, D. Laborde, and S. Tokgoz
- *A systematic and global assessment of the impact of CGIAR technologies on poverty* with W. Martin, D. Laborde, and S. Tokgoz
- *Long-term drivers of food and nutrition security* IFPRI Discussion Paper with M. Torero, D. Laborde, and S. Tokgoz
- *Distortions to agricultural incentives in India: evidence from agricultural value chains* with S. Tokgoz
- *Agricultural distortions and value chains in Africa* with S. Tokgoz
- *AGRODEP training workshop* with S. Tokgoz and others
- *India Food Security Portal* with S. Tokgoz, S. Allen, and S. Kim

2012 *Center for Evaluation and Global Action (CEGA)*, Berkeley, CA

- Contributed to reports on education and health infrastructure in Pakistan

2010 *Illinois Institute of Rural Affairs (IIRA)*, Macomb, IL

- Contributed to reports on entrepreneurial culture, wind farms, concentrated animal farm operations, and conflict resolution in agricultural vs. non-agricultural issues in rural Illinois

TEACHING EXPERIENCE DETAILS

2011- *Graduate Student Instructor*, University of California, Berkeley, CA

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

2009 *Graduate Assistant*, Western Illinois University, Macomb, IL

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

PROFESSIONAL ACTIVITIES

Ad hoc referee for ERS, EE, LE.

SKILLS

Languages: Fluent in English, and Urdu

Computing Skills: MATLAB, GAMS, VBA, L^AT_EX, QGIS, Stata, ArcGIS, Python, C++, Linux

LAST UPDATE

July 2024