

# Fahd Majeed

Web: <http://fahdmajeed.net>

Email: [fmajeed2@illinois.edu](mailto:fmajeed2@illinois.edu)

## PROFESSIONAL WORK EXPERIENCE

- 2023-present Postdoctoral Research Associate, Joint assignment at *Institute for Sustainability, Energy, and Environment (iSEE) & Center for Advanced Bioenergy and Bioproducts Innovation (CABBI)*, Urbana, IL
- 2014-2017 Senior Research Assistant, *International Food Policy Research Institute (IFPRI)*, Washington, D.C.

## OTHER RESEARCH AND TEACHING EXPERIENCE

- 2018-2023 Research Assistant, *Center for Advanced Bioenergy and Bioproducts Innovation (CABBI)*, Urbana, IL
- 2017-2018 Research Assistant, Agriculture and Consumer Economics (ACE), *University of Illinois*, Urbana, IL
- 2011-2012 Graduate Student Instructor, *University of California*, Berkeley, CA
- 2010 Research Assistant, *Illinois Institute of Rural Affairs (IIRA)*, Macomb, IL
- 2009 Graduate Assistant, *Western Illinois University*, Macomb, IL

## EDUCATION

- 2022 DOCTOR OF PHILOSOPHY in Agriculture and Applied Economics, *University of Illinois*, Urbana, IL  
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
- 2012 MASTER OF SCIENCE in Agriculture and Resource Economics, *University of California*, Berkeley, CA
- 2010 MASTER OF ARTS in Economics, *Western Illinois University*, Macomb, IL
- 2008 BACHELOR OF ARTS in Economics, Minor in Computer Science, *Western Illinois University*, Macomb, IL

## PUBLICATIONS

### PEER-REVIEWED JOURNAL ARTICLES

- 2023 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>>
- 2020 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>>
- 2019 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>>

2018 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>>

#### PEER-REVIEWED DISCUSSION PAPERS AND POLICY BRIEFS

2021 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* Washington, DC: International Food Policy Research Institute (IFPRI) May 2021. <<https://doi.org/10.2499/9780896294158>>

#### OTHER DISCUSSION PAPERS AND POLICY BRIEFS

2018 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>>

2016 Laborde, D., F. Majeed, S. Tokgoz, and M. Torero. “Long-term drivers of food and nutrition security” *IFPRI Discussion Paper*, No. 01531, May, 2016. <<https://www.ifpri.org/publication/long-term-drivers-food-and-nutrition-security-0>>

#### OUTREACH PUBLICATIONS

2020 Majeed, F. “Civic Scientist series - Voices from our network” *Green Lands Blue Waters - Minnesota Institute for Sustainable Agriculture at the University of Minnesota*, Nov 4, 2020. <<https://greenlandsbluwaters.org/civic-scientists-series/>> <pdf>

2016 Majeed, F., S. Tokgoz, and B. Paris. “Distortions to agricultural incentives” *IFPRI Food Security Portal blog*, June 30, 2016. <<http://india.foodsecurityportal.org/regional-sub-portal-blog-entry/india/910>>

2015 Tokgoz, S., and F. Majeed. “Price transmission across value chains” *IFPRI Food Security Portal blog*, September 30, 2015. <<http://india.foodsecurityportal.org/regional-sub-portal-blog-entry/india/453>>

#### WORKS IN PROGRESS

1 “Designing payments for carbon mitigation to induce low-carbon bioenergy production”, with Madhu Khanna, and Ruiqing Miao

2 “Potential of US agriculture to mitigate carbon”, with Madhu Khanna, and Ruiqing Miao

3 “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

4 “Harnessing solar energy for food and fuel with agrivoltaics” with Paul Mwebaze, Madhu Khanna, Ruiqing Miao, James McCall, and Jordan Macknick

5 “Spatial variability in the profitability of agrivoltaics in the US” with Xuzhi Du, Paul Mwebaze, Madhu Khanna, Ruiqing Miao, James McCall, and Jordan Macknick

## PRESENTATIONS, POSTERS AND WORKSHOPS

### PRESENTATIONS

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

### POSTERS

- 2022 AAEA Annual Meeting, *Agricultural & Applied Economics Association*, “Designing carbon mitigation payments to induce low-carbon bioenergy production”, Anaheim, CA, August 2. <https://ageconsearch.umn.edu/record/322278/files/22992.pdf>
- 2022 External Review Meeting, *Agriculture & Consumer Economics, University of Illinois*, “Effects of payments on the riskiness of returns to cellulosic ethanol feedstock production”, Urbana, IL, April 25.
- 2021 AAEA Annual Meeting, *Agricultural & Applied Economics Association*, “Effects of payments on the riskiness of returns to cellulosic ethanol feedstock production”, Austin, TX, August 1. [https://ageconsearch.umn.edu/record/312883/files/Abstracts\\_21\\_06\\_15\\_23\\_45\\_54\\_56\\_\\_24\\_13\\_125\\_115\\_0.pdf](https://ageconsearch.umn.edu/record/312883/files/Abstracts_21_06_15_23_45_54_56__24_13_125_115_0.pdf)
- 2021 CABBI Annual Meeting, *Center for Advanced Bioenergy and Bioproducts Innovation*, “Designing payments for GHG mitigation to induce low carbon bioenergy production”, Urbana, IL, January 26.
- 2020 GSP Annual Principal Investigator Meeting, *US Department of Energy - Genomic Science Program*, “Effectiveness of payments for greenhouse gas mitigation to induce low carbon bioenergy production”,

Washington, D.C., February 24. <[https://www.oraui.gov/gsp2020/abstracts/DeLucia\\_Majeed.pdf](https://www.oraui.gov/gsp2020/abstracts/DeLucia_Majeed.pdf)>

## WORKSHOPS

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

## PRESENTATIONS, POSTERS, AND WORKSHOPS BY CO-AUTHORS

2022 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. Presented by P. Mwebaze. <[https://sbcaec2022.sciencesconf.org/data/pages/accepted\\_panels\\_and\\_papers.pdf](https://sbcaec2022.sciencesconf.org/data/pages/accepted_panels_and_papers.pdf)>

2022 Mwebaze, P., M. Khanna, F. Majeed, R. Miao, J. McCall and J. Macknick. “A spatially varying levelized cost of electricity and profitability of agrivoltaics in the US.”, at the *The Society for Benefit-Cost Analysis 2022 Annual Conference*, Virtual, March 22. Presented by P. Mwebaze. <<https://www.benefitcostanalysis.org/index.php?view=article&id=114>>

2021 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*, Virtual, August 24. Presented by S. Tokgoz. <<https://ageconsearch.umn.edu/record/315115>>

2017 Tokgoz, S., and F. Majeed. “Measuring distortions to agricultural incentives for value chain analysis - evidence from Indian value chains”, at the *XV EAAE Congress*, Parma, Italy on August 29-September 1. Presented by S. Tokgoz. <<https://pim.cgiar.org/files/2017/09/PosterEAAE2017-TokgozMajeed.pdf>>

2017 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 on June 7-9. Presented by W. Martin. <[https://www.gtap.agecon.purdue.edu/resources/res\\_display.asp?RecordID=5369](https://www.gtap.agecon.purdue.edu/resources/res_display.asp?RecordID=5369)>

2016 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*, Rome, Italy on October 26-28. Presented by S. Tokgoz. <<http://www.ifpri.org/publication/towardsconsolidated-database-distortions-agricultural-incentives-ag-incentives>>

2016 Tokgoz, S., and F. Majeed. “Distortions to agricultural incentives in India: evidence from agricultural value chains”, Selected Paper for the *2016 Agricultural and Applied Economics Association annual meeting*, Boston, Massachusetts, July 31-August 2. Presented by S. Tokgoz. <<http://purl.umn.edu/236087>>

2015 Tokgoz, S., and F. Majeed. “Agricultural distortions and value chains”, *IFPRI-AGRODEP* sponsored training in Dakar, Senegal on September 1-3. Presented by S. Tokgoz.

## WORK EXPERIENCE DETAILS

### RESEARCH EXPERIENCE DETAILS

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

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-present *Center for Advanced Bioenergy and Bioproducts Innovation (CABBI)*, Urbana, IL  
 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
- 2014-2017 *Markets, Trade and Institutions Division (MTID), International Food Policy Research Institute (IFPRI)*, Washington, D.C.  
 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

- 2011-2012 *Graduate Student Instructor*, University of California, Berkeley, CA
- 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,  $\LaTeX$ , QGIS, Stata, ArcGIS, Python, C++, Linux