

Fahd Majeed

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Education

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| Ongoing | DOCTOR OF PHILOSOPHY in Agriculture and Applied Economics, <i>University of Illinois</i> , Urbana, IL |
| 2012 | MASTER OF SCIENCE in Agriculture and Resource Economics, <i>University of California</i> , Berkeley, CA |
| 2010 | MASTER OF ARTS in Economics, <i>Western Illinois University</i> , Macomb, IL |
| 2008 | BACHELOR OF ARTS in Economics, Minor in Computer Science, <i>Western Illinois University</i> , Macomb, IL |

Work Experience

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| 2018-Present | Research Assistant, <i>Center for Advanced Bioenergy and Bioproducts Innovation</i> , Urbana, IL |
| 2017-2018 | Research Assistant, Agriculture and Consumer Economics, <i>University of Illinois</i> , Urbana, IL |
| 2014-2017 | Senior Research Assistant, <i>International Food Policy Research Institute</i> , Washington, D.C. |
| 2011-2012 | Graduate Student Instructor, <i>University of California</i> , Berkeley, CA |
| 2010 | Research Assistant, <i>Illinois Institute of Rural Affairs</i> , Macomb, IL |
| 2009 | Graduate Assistant, <i>Western Illinois University</i> , Macomb, IL |

RESEARCH EXPERIENCE DETAILS

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| 2017-Present | <p><i>Agriculture and Consumer Economics Department</i>, University of Illinois, Urbana, IL, and <i>Center for Advanced Bioenergy and Bioproducts Innovation</i>, Urbana, IL</p> <p>Work on projects in natural resource and environmental economics with a focus on renewable energy, agriculture, and risk topics under partial equilibrium, general equilibrium, and simulation frameworks. Specific projects include:</p> <ul style="list-style-type: none">• <i>Incentivizing Energy Crop Production for Risk-Averse Farmers through Ecosystem Service Payments</i> with M. Khanna and R. Miao<ul style="list-style-type: none">– Develop economic simulation model for ecosystem services in the US cellulosic ethanol agricultural market– Collect, analyze, document, and process primary and secondary data from various sources including biophysical model DayCent for model input– Develop conceptual model for ecosystem service payments for miscanthus, switchgrass, corn stover– Write code in MATLAB to construct simulation model of ecosystem service payments in the US cellulosic ethanol agricultural market– Write paper in support of model• <i>Biofuel and Environmental Policy Analysis Model</i> with M. Khanna and others |
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Markets, Trade and Institutions Division, International Food Policy Research Institute, Washington, D.C.

Worked on projects related to agricultural incentives, value chains, and partial equilibrium models for developing countries. Specific projects include:

- *Integrated agriculture and renewable energy systems in India* with co-author S. Tokgoz
 - Worked on partial equilibrium modeling of Indian agricultural, biofuels, energy markets
 - Worked with S. Tokgoz in developing conceptual model on integrated system for major crops
 - Collected, analyzed, documented, and processed primary and secondary data for India from various sources
 - Wrote code in GAMS and as well as performed documentation of simulation model
- *Measuring distortions to agricultural incentives* with W. Martin, D. Laborde, and S. Tokgoz
 - Worked with IFPRI and other international organizations' teams for preparation of a consolidated global database of distortions agricultural incentives by the Ag-Incentives Consortium including FAO-MAFAP, IADB, World Bank, and OECD
 - Wrote code to automate data collection, processing, and analysis of OECD PSE database
 - Created manuals and documentations for use for written code
 - Participated in exchanges and iteration with project partners at OECD for discussions on databases and consortium goals
- *A systematic and global assessment of the impact of CGIAR technologies on poverty* with W. Martin, D. Laborde, and S. Tokgoz
 - Carried out detailed literature review, write report, prepare tables, graphs, presentations on the response of agricultural TFP to investments in R&D, and particularly to CGIAR investments in R&D
 - Provided feedback and preliminary information to aid in the design of the Delphi survey used in this project
- *Long term drivers of food and nutrition security* IFPRI Discussion Paper with M. Torero, D. Laborde, and S. Tokgoz
 - Collected, analyzed, documented, and processed primary and secondary data
 - Contributed to writing of Discussion Paper with co-authors
 - Prepared tables and graphs from data collected and processed to be used in paper
- *Distortions to agricultural incentives in India: evidence from agricultural value chains* with S. Tokgoz
 - Conceived a new methodology for measuring distortions to agricultural incentives across an entire value chain with co-author S. Tokgoz
 - Collected, analyzed, documented, and processed primary and secondary data for India
 - Wrote code to automate data collection, processing, and analysis (coding with VBA)
 - Wrote Working Paper for AAEA 2016 Conference with co-author S. Tokgoz
 - Wrote blog posts reviewing and analyzing data and findings
- *Agricultural distortions and value chains in Africa* with S. Tokgoz
 - Conducted preliminary investigation on selected Value Chains in Nigeria, Tanzania, and Ethiopia
 - Coordinated with S. Tokgoz in the development of a method to process prices at various points in the value chain as well as a mapping of sugar and oilseed complexes
 - Sat in on meetings with researchers from ICARDA to discuss project details for Value Chain work in Ethiopia

- Trainer in the IFPRI sponsored kick-off workshop for "Agricultural Distortions across Value Chains in Africa"
- *AGRODEP* with S. Tokgoz and others
 - Contributed to development of and give feedback on training tutorials and materials for GAMS lessons for AGRODEP members
 - Wrote literature review for agricultural incentives in developing countries
 - Prepared documents, tutorials, and write code for the IFPRI-AGRODEP sponsored training for "Agricultural Distortions and Value Chains", held in Dakar, Senegal on September 1-3, 2015 with S. Tokgoz
- *India Food Security Portal* with S. Tokgoz, S. Allen, and S. Kim
 - Collected, analyzed, documented, and processed primary and secondary data
 - Prepared databases of various prices for major crops for the Food Security Portal
 - Wrote blog posts reviewing and analyzing data and findings

2012 *Center for Evaluation and Global Action*, Berkeley, CA

- Wrote report on education in Pakistan with a focus on primary and secondary education expenditure and infrastructure, and the role of state and non-state providers of education
- Wrote report on health care in Pakistan with an overview on historical and current state of health infrastructure and expenditure, and a focus on maternal, neonatal, and child health

2010 *Illinois Institute of Rural Affairs*, Macomb, IL

- Researched strategies for an entrepreneurial culture in rural Illinois communities
- Contributed to research reports on wind farms and concentrated animal farm operations
- Investigated deliberation and conflict resolution in agricultural vs. nonagricultural issues

TEACHING EXPERIENCE DETAILS

2011-2012 *Graduate Student Instructor*, University of California, Berkeley, CA

- Two sections of Introduction to Economics (Econ 1) for B. DeLong
- Two sections of Environmental Economics and Policy (EEP 1/Econ C3) for P. Berck
- Two sections of Industrial Organization (Econ 121) for A. Dey
- Two sections of Introduction to Economics (Econ 1) for M. Olney

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

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

Publications

PEER-REVIEWED JOURNAL ARTICLES

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>>

NON PEER-REVIEWED 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-o>>

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://greenlandsbluewater.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>>

Presentations, Posters and Workshops

PRESENTATIONS

2020 program in Environmental and Resource Economics 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 AAEE 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

2021 AAEE Annual Meeting, *Agricultural & Applied Economics Association*, “Effects of Payments on the Riskiness of Returns to Cellulosic Ethanol Feedstock Production”, August 1.

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.ornl.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

CONFERENCES AND WORKSHOP PRESENTATIONS BY CO-AUTHORS

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.

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>

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.

Referee Reports

- 2015 ERS Report - MS 468: “*Climate impacts, socioeconomic assumptions, and the ERS International Food Security model*”, with S. Tokgoz
- 2015 Energy Economics: “*The impact of changes in fuel policies on the Brazilian economy*”, with S. Tokgoz
- 2014 Land Economics: “*Conversion of grassland to cropland in rain-fed versus irrigated agriculture: the case of Nebraska*”, with S. Tokgoz

Skills

Languages: Fluent in English, and Urdu

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