

Serkan Aglasan

Department of Agricultural and Resource Economics \diamond University of Arizona, Tucson, AZ

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PROFESSIONAL EXPERIENCE

Assistant Professor Department of Agricultural and Resource Economics University of Arizona, Tucson, AZ	Aug. 2023–Present
Assistant Professor Mehmet Akif Ersoy University, Turkey	Aug. 2021–2023
Postdoctoral Research Scholar North Carolina State University	Aug. 2020–Aug. 2021

EDUCATION

North Carolina State University Ph.D. in Economics Advisor: Dr. Barry K. Goodwin	2014– June 2020
The University of Illinois at Urbana-Champaign M.S. in Economics	2011–2013
Uludag University, Bursa/Turkey B.S. in Econometrics, <i>summa cum laude</i>	2005–2009

FIELDS OF INTEREST

Agricultural Economics (Production, Policy), Climate Change, Sustainable Agriculture, Risk Management / Crop Insurance, Applied Econometrics

PUBLISHED PAPERS

- Cover Crops, Crop Insurance Losses, and Resilience to Extreme Weather Events. *American Journal of Agricultural Economics*, 2023 (with Roderick Rejesus, Stephen Hagen, and William Salas)
- Long-Term Economic Impacts of No-Till Adoption. *Soil Security*, 2023 (with Yuyuan Che, Roderick Rejesus, Michel A Cavigelli, Kathryn E White, Lynn G Knight, Curt Dell, David Hollinger, and Erin D Lane)
- The Impact of Conservation Tillage Intensities on Mean Yields and Yield Risk. *Soil Security*, 2023 (with Ayesha Cooray, Roderick Rejesus, Zheng Li, and Alex Woodley)
- Understanding the Effect of Cover Crop Use on Prevented Planting Losses. *American Journal of Agricultural Economics*, 2023 (with Sunjae Won, Roderick Rejesus, and Barry Goodwin)
- Risk Effects of GM Corn: Evidence from Crop Insurance Outcomes and High-Dimensional Methods. *Agricultural Economics*, 2023 (with Barry K. Goodwin and Roderick Rejesus)
- The Impact of No-Till Production on Agricultural Land Values in the United States Midwest. *American Journal of Agricultural Economics*, 2022 (with Le Chen and Roderick Rejesus)

The Impact of Cover Crops on Soil Erosion in the US Midwest. *Journal of Environmental Management*, 2022 (with Le Chen and Roderick Rejesus)

Payments from Agricultural Conservation Programs and Cover Crop Adoption. *Applied Economic Perspectives and Policy*, 2022 (with Roderick Rejesus, Byungyul Park, Yuyuan Che, Stephen C. Hagen, William Salas)

Do Higher Temperatures Influence How Yields Respond to Increasing Planting Density? *Agricultural and Resource Economics Review*, 2021 (with Ruixue Wang, Roderick Rejesus, and Jesse Tack)

Warming Temperatures, Yield Risk and Crop Insurance Participation. *European Review of Agricultural Economics*, 2021 (with Ruixue Wang and Roderick Rejesus)

Economic Dimensions of Soil Health Practices That Sequester Carbon: Promising Research Directions. *Journal of Soil and Water Conservation*, 2021 (with Roderick Rejesus, Lynn G. Knight, Michel A. Cavigelli, Curtis J. Dell, Erin D. Lane, David Y. Hollinger)

Crop Rotation Mitigates Impacts of Corn Rootworm Resistance to Transgenic Bt Corn. *Proceedings of the National Academy of Sciences, PNAS*, 2020 (with Zachary Brown, Yves Carriere, Matthew Carroll, Graham Head, Bruce Tabashnik, and Scott Carroll)

WORKING PAPERS

Effects of Spatial Population Dynamics, Weather, and Crop Rotation on Corn Rootworm Resistance to Transgenic Bt Corn. (*In preparation for submission to Nature Biotechnology*) (with Zachary Brown, Yves Carriere, Bruce Tabashnik, Barry K. Goodwin, and Scott P. Carroll)

Planting Density, Warming Temperatures, and Corn Yield Risk. (with Roderick Rejesus, Barry K. Goodwin, and Zachary Brown)

Landscape Complexity, Crop Insurance Losses, and Resilience to Extreme Weather Events. (with Yuyuan Che, Roderick M Rejesus, and Emily Burchfield)

Impacts of Rotation Decisions on Crop Sensitivity to Extreme Weather: Implications Using a Rotational Complexity Index (with Lawson Connor and Roderick Rejesus)

Meta-Analysis of the Yield Effects of Winter Cover Crops (with Le Chen and Roderick Rejesus)

Non-linear Risk Analysis of Soil Erosion Levels in the US Midwest (with Hongqiang Yan and Roderick Rejesus)

The Impact of Soil Erosion on Agricultural Land Values in the US Midwest (with Le Chen and Roderick Rejesus)

Price Dynamics, Market Integration, and Price Transmission in Turkish Perishable Commodity Markets. (with Barry K. Goodwin)

Cross-hedging with Agricultural Commodities: A Copula-based GARCH Model. (with Shenan Wu and Barry K. Goodwin)

TEACHING (SINCE 2016)

University of Arizona Fall 2023
Production Economics (AREC 504) (graduate)

Mehmet Akif Ersoy University, Turkey Fall 2021, Spring 2023
Microeconomics, Macroeconomics, Econometrics (undergraduate)

Average Evaluation: 4.9/5.0, 4.9/5, 4.8/5, respectively

Average Evaluation: 4.9/5.0

PROFESSIONAL SERVICE

Referee (alphabetical): American Journal of Agricultural Economics (*AJAE*), Applied Economic Perspectives and Policy (*AEPP*), Agricultural Economics (*IAAE*), Journal of the Agricultural and Applied Economics Association (*JAAEA*)

HONORS AND AWARDS

Award for Best Graduate Student Paper: Applied Risk Analysis Section of the AAEA	2020
Graduate Scholarship, NCSU	2016–2020
Scholarship for graduate studies from Republic of Turkey Ministry of National Education	2011–2015
TUBITAK/Turkey Educational Support Scholarship	2009

SEMINAR PRESENTATIONS

Landscape Complexity, Crop Insurance Losses, and Resilience to Extreme Weather Events. *Selected Presentation; AAEA Annual Meeting, Washington, DC, July 2023*

The Impact of Conservation Tillage Intensities on Mean Yields and Yield Risk. *Track Session-Applied Risk Analysis Section; AAEA Annual Meeting, Washington, DC, July 2023*

The Effect of Crop Insurance on Agricultural Loan Delinquencies. *Track Session-Applied Risk Analysis Section; AAEA Annual Meeting, Washington, DC, July 2023*

Do Reduced Tillage Practices Decrease Weather Related Losses and Production Risk? *Paper Presentation for SCC-76 2023 Annual Meeting, Kansas City, MO, March 16-18, 2023*

Do Cover Crops Reduce Production Risk? *Paper Presentation for AAEA Annual Meeting, Anaheim, CA, August 2022*

The Impact of No-Till Production on Agricultural Land Values in the US Midwest. *Paper Presentation for AAEA Annual Meeting, Anaheim, CA, August 2022*

Understanding the Effect of Cover Crop Use on Prevented Planting Losses. *SCC-76/NC-1177 Annual Meeting, April 2022*

An Analysis of Crop Insurance Losses, Cover Crops, and Weather in US Crop Production. *Paper Presentation for AAEA & WAEA Joint Annual Meeting in Austin, TX, August 2021*

Effect of Crop Insurance Participation on Farm Bankruptcies and Loan Delinquencies *Paper Presentation for AAEA & WAEA Joint Annual Meeting in Austin, TX, August 2021*

Cover Crop Adoption Effects on Weather Related Production Losses and Risk. *Paper Presentation for SCC-76 Virtual Meeting, 2021*

Cross-hedging with Agricultural Commodities: A Copula-GARCH Approach. *Paper Presentation for AAEA & WAEA Joint Annual Meeting in Austin, TX, August 2021*

Genetically Modified Rootworm-Resistant Corn, Risk, and Weather: Evidence from High Dimensional Methods. *Paper Presentation for AAEA Virtual Meeting, August 2020*

The Effects of Genetically Modified Corn Adoption on Yield Risk and Drought Sensitivity in the Central Corn Belt: An Analysis of Crop Insurance Performance. *Paper Presentation for AAEA Annual Meeting in Atlanta, GA, July 2019*

Does Higher Planting Density Increase the Drought Sensitivity and Yield Risk of Genetically Modified Corn Seed? *Poster Presentation for AAEA Annual Meeting in Atlanta, GA, July 2019*

GM Corn Adoption Effects on Crop Insurance Performance and Corn Yields. *Paper Presentation for Southern Economic Association, Washington DC, November 2018*

Margin Protection for Corn and Soybeans: A Vine Copula Approach. *Paper Presentation for NC-1177 Multi-state Research Project on Agricultural and Rural Finance Markets in Transition Annual Meeting Program, Federal Reserve Bank of Minneapolis, Minneapolis, Minnesota, October 2017*

Bioeconomic Feedbacks in Microeconomic Models of Pest Control Decisions: An application to Largescale Adoption of Bt Corn in the U.S. *Paper Presentation for Camp Resources XXIV Conference, Wrightsville Beach, NC, August 2017*

SKILLS

Language Skills: Turkish (Native), English (Proficient), Portuguese (Intermediate)

Computer Skills: Stata (highly proficient), R (highly proficient), MATLAB (proficient), SAS (proficient), Python (competent), ArcGIS (competent), LaTeX (highly proficient), Microsoft Office (proficient)