

# Muxi Cheng

Department of Agricultural Economics  
Texas A&M University  
2124 TAMU College Station, TX 77843-2124  
(202)-341-0199 | muxicheng@tamu.edu

## EDUCATION

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- Sep 2018- May 2024    **Ph.D. in Agricultural Economics**  
Department of Agricultural Economics  
Texas A&M University, College Station, Texas  
*Advisor:* Bruce A. McCarl  
*Core Courses:* Microeconomic Theory, Applied Econometrics, Resource and Environmental Economics, Welfare Economics, Applied Mathematical Programming
- Sep 2016- May 2018    **M.S. in Applied Economics**  
Krieger School of Arts and Sciences  
Johns Hopkins University, Washington D.C.
- Sep 2012- May 2016    **B.S. in Economics**  
Yuanpei College  
Peking University, Beijing, China

## PROFESSIONAL EXPERIENCE

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### Graduate Research Assistant

- Feb 2019 - Aug 2023    Climate Change Economics  
Advisor: Dr. McCarl  
Department of Agricultural Economics, Texas A&M University

### Instructor

- Spring 2022            AGEC 622: Agribusiness Analysis and Forecasting (Master level course)  
Spring 2021            AGEC 622: Agribusiness Analysis and Forecasting (Master level course)  
Fall 2019 - Spring 2020    PhD Qualification Exam Camp at Department of Agricultural Economics

### Internship

- Summer - Fall 2023    Data Analyst  
Second Pillar Consulting

## RESEARCH INTEREST

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- Primary Field**            Climate Change Economics, Econometrics  
**Secondary Field**        Agribusiness, Environmental Economics, Mathematical Programming

## GRANTS

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### *Awarded*

USDA-SARE, Graduate Student Grant, 2022 “Climate Change Impacts on the U.S. Livestock Sector and Possible Adaptations” \$16,500 (Muxi Cheng, B.A. McCarl (PI) and C. Fei (Co-PI))

## JOURNAL ARTICLES

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- [1] **Cheng, M.**, B.A. McCarl, and C.J. Fei. 2022. “Climate Change and Livestock Production: A Literature Review”; *Atmosphere* 13(1): 140. <https://doi.org/10.3390/atmos13010140>
- [2] Capps, O.Jr., **M.Cheng**, J. Kee, and S. Priestley “A Cross-Sectional Analysis of the Demand for Coffee in the United States” *Agribusiness: An International Journal*. doi: 10.1002/agr.21779
- [3] Wang, M., Y. Huang, **M. Cheng**, B. Sheng, and B.A. McCarl “El Niño Southern Oscillation and Decadal Climate Variability Impacts on Crop Yields and Adaptation Value” *CAB Reviews Perspectives in Agriculture Veterinary Science Nutrition and Natural Resources* 16(43):1-13; doi: 10.1079/PAVSNR202116043

## WORKING PAPERS

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- [1] **Cheng, M.**, C.J. Fei and B.A. McCarl “An Integrated Study on the Climate Change Effects on U.S. Livestock Sector” (Target Journal: *Nature Climate Change*, Expected to be submitted in Fall 2023)
- [2] **Cheng, M.**, C.J. Fei and B.A. McCarl “Climate Change Impacts on U.S. Livestock Yields” (Target Journal: *Nature Climate Change*, Expected to be submitted in Fall 2023)
- [3] **Cheng, M.**, C.J. Fei and B.A. McCarl “Analysis of the Climate Change Effect on the Pesticide Cost” (Target Journal: *Journal of Environmental Economics and Management*, Expected to be submitted in Winter 2023)

## PRESENTATIONS

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- [1] **Cheng, M.**, C.J. Fei and B.A. McCarl “Climate Change Impacts on U.S. Pesticide Costs” AAEA Annual Meeting, Washington D.C., July 2023
- [2] **Cheng, M.**, C.J. Fei and B.A. McCarl “Climate Change and Agriculture Impact of Including Livestock” AAEA Annual Meeting, Anaheim, CA, August 2022
- [3] **Cheng, M.**, C.J. Fei and B.A. McCarl “Climate Change Effects on the U.S. Hog production” AAEA Annual Meeting, Austin, TX, August 2021

## SERVICE

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**Peer Reviewer** *Environmental Research Letters* (1), *Southern Economic Journal* (1), *Climate Change* (1)

## SKILLS

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**Master** Python (Pandas, GeoPandas, NumPy, SciKit-Learn, Matplotlib, Fiona)  
R (dplyr, tidyverse, ggplot2, plm, Caret, splm)  
ArcGIS

**Proficient** Stata, Tableau, GAMS, MySQL, Eviews, Matlab