

Xi He

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Virginia Tech

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Research Interests

Primary: Agricultural trade and food policy analysis

Secondary: Nutrition and health; Consumer food choices

Professional Experience

Assistant Professor, Aug 2022-Present

Virginia Tech, Department of Agricultural and Applied Economics
50% research, 50% teaching

Postdoctoral research associate, April 2020-Aug 2022

Iowa State University, Center for Agricultural and Rural Development (CARD), April 2020–Aug 2022

Supervisors: Profs. Edward J. Balistreri; Dermot J. Hayes; Wendong Zhang
University of Connecticut, October 2019–February 2020

Education

Ph.D. Agricultural and Resource Economics, University of Connecticut, Storrs, USA, 2014–2019

M.A. Economics, Beihang University, Beijing, China, 2011–2014.

B.S. Economics, Beihang University, 2007–2011.

Publications

Journal Articles (12)

12. **He X.**, Miguel Carriquiry, Amani Elobeid, Dermot Hayes, Minghao Li, Wendong Zhang. (2022) China's Corn and Biofuel Policies and Agricultural Trade: Projections from the CARD International Agricultural Commodity Market Model. Forthcoming *Agribusiness-an international Journal*
11. **He X.**, E. Balistreri, G. Kim, W. Zhang. (2022). COVID-19 and Regional Economy in China: A General Equilibrium Modelling using GAMS. Forthcoming. *Journal of Productivity Analysis*
10. **He, X.**, Chen, Z. (2022). Weather, cropland expansion, and deforestation in Ethiopia. *Journal of Environmental Economics and Management*, 111, 102586.

9. He, X. (2022). Regional Trade Agreements and Excluded Countries. *American Journal of Agricultural Economics*. Volume 104, Issue 1. <https://doi.org/10.1111/ajae.12233>
8. He, X. (2022). Political and Economic Determinants of Export Restrictions in the Agricultural and Food Sector. (*Forthcoming Agricultural Economics*). <https://doi.org/10.1111/agec.12684>
7. He, X., Lopez, R., & Boehm, R. (2020). Medicaid Expansion and Non-alcoholic Beverage Choices by Low-income Households. *Health Economics* 29(11), 1327-1342.

2021 AAEA Health Economics Section Best Paper award

6. He, X. (2020). US Agricultural Exports and Labor Market Adjustments. *Agricultural Economics* 51(4), 609-621.
5. Lopez, R. A., He, X., & Azzam, A. (2018). Stochastic Frontier Estimation of Market Power in the Food Industries. *Journal of Agricultural Economics* 69(1), 3-17.
4. Lopez, R. A., He, X., & De Falcis, E. (2017). What Drives China's New Agricultural Subsidies. *World Development* 93, 279-292.
3. Fiala, N., & He, X. (2017). Unitary or Noncooperative Intrahousehold Model? Evidence from Couples in Uganda. *The World Bank Economic Review* 30(Supplement-1), S77-S85.
2. He, X., Lopez, R., & Liu, Y. (2017). Are Online and Offline Advertising Substitutes or Complements? Evidence from US Food Industries. *Journal of Agricultural & Food Industrial Organization* 15(2).
1. Scalco, P. R., Lopez, R. A., & He, X. (2017). Buyer and/or Seller Power? An Application to the Brazilian Milk Market. *Applied Economics Letters*. 24(16):1173-1176.

Papers Under Review (4)

4. Trade Barriers and Import Evasion in Agricultural Markets (Revision requested at *European Review of Agricultural Economics*)
3. Impacts of Crop Price Level and Volatility on Cropland Expansion and Deforestation in Ethiopia (Under review)
2. Dams, Agricultural Production, and Economic Development in China. (With Zhenshan Chen) (Under review).
1. Political Bias, Media, and Midwest Farmers' Reactions to the U.S.-China Trade War. (with Minghao Li, Wendong Zhang, Lulu Rodriguez, Shuyang Qu, James M Gbeda) (Under Review)

Working Papers and Work in progress

1. RTAs and agricultural trade
2. RTAs and the use of non-tariff barriers
3. Roads, Trade, and Development: Evidence from the Agricultural Boom in Brazil. (with Guilherme DePaula and Wendong Zhang)
4. Agricultural Trade Impacts of RCEP: an Integrated Partial Equilibrium and General Equilibrium Assessment. (With Edward Balistreri, Anton Yang, Wendong Zhang)
5. How Does SNAP Affect Diet Quality? Evidence from FoodAPS. (With Zhenshan Chen)

6. Regional Trade Agreements and Nonmember Countries' Deforestation.
7. Upstream and Downstream Concentration in the U.S. Agro-food Industries.
8. Agricultural Imports, Self-selected Migration, and Income Inequality in Rural China

Policy Briefs and Outreach Work

1. **He, X.**, M. Carriquiry, W. Zhang, and D. Hayes. 2022. "US Agricultural Exports to China during the Phase One Trade Deal: Larger Pie, Smaller Slice?" *Agricultural Policy Review*, Spring 2022. Center for Agricultural and Rural Development, Iowa State University
2. **He, X.**, M. Carriquiry, W. Zhang, and D. Hayes. 2021. "Predicting China's Corn Acreage and Production in 2021/22 and 2022/23" *Agricultural Policy Review*, Fall 2021. Center for Agricultural and Rural Development, Iowa State University. Available at [Link](#)
3. **He, X.**, G. DePaula, and W. Zhang. 2021. "Brazil's Transportation Infrastructure and Competitiveness in the Soybean Market" *Agricultural Policy Review*, Fall 2021. Center for Agricultural and Rural Development, Iowa State University. Available at [Link](#)
4. **He, X.**, and Zhang W. 2021. China's Changing Population Structure and its Implications for US Agricultural Exports. *Agricultural Policy Review*, Spring 2021. Center for Agricultural and Rural Development (CARD) at Iowa State University. [Link](#)
5. **He, X.**, Hayes, D. J., and Zhang W. 2021. Is China's Hog Rebuilding Complete? Reconciling Inventory and Price Data. *Agricultural Policy Review*, Winter 2021. Center for Agricultural and Rural Development (CARD) at Iowa State University. [Link](#)
6. **He, X.**, Hayes, D. J., and Zhang W. 2020. China's Agricultural Imports under the Phase One Deal: Is Success Possible? Center for Agricultural and Rural Development (CARD) at Iowa State University. [Link](#)
7. **He, X.**, and W. Zhang. 2020. Implications of Hong Kong's Special Status Revocation for Agricultural Trade between the United States, Hong Kong, and Mainland China. *Agricultural Policy Review*, Spring 2020. Center for Agricultural and Rural Development, Iowa State University. [Link](#)
8. **He, X.**, D. Hayes, and W. Zhang. 2020. Upheaval in China's Corn Market: Will China expand its Tariff Rate Quota for Corn? *Agricultural Policy Review*, Fall 2020. Center for Agricultural and Rural Development, Iowa State University. [Link](#)
9. **He, X.**, D. Hayes, and W. Zhang. 2020. The Impact of Flooding on China's Agricultural Production and Food Security in 2020. *Agricultural Policy Review*, Fall 2020. Center for Agricultural and Rural Development, Iowa State University. [Link](#)
10. **He, X.**, T. Xiong, and W. Zhang. 2020. COVID-19 Economic Database: China. Center for Agricultural and Rural Development, Iowa State University, Ames, Iowa. [Link](#)

Grants

USDA National Institute of Food and Agriculture (NIFA) Agriculture and Food Research Initiative (AFRI) "Measuring and Forecasting China's Agricultural Production, Stocks, and Imports with High Quality Data and Machine Learning Methods". PIs: Wendong Zhang; Dermot J. Hayes; Guiping Hu, Xiong Tao. Role: Co-PI. Amount: \$ 649,980; **Funded**. 2022-2025.

USDA NIFA AFRI "Quantifying the transmission of US-China and global policy impacts through a new commodity-specific international general-equilibrium system". PIs: Wendong Zhang; Dermot J. Hayes; Edward Balistreri. Role: Postdoc. Amount: \$ 499,998. 2019-2022.

USDA NIFA AFRI "The Importance of U.S. Food and Agricultural Trade in a New Global Market Environment", USDA-NIFA Hatch Multistate project S1062. PIs: Rigoberto Lopez, Emma Bojinova. Role: Research Assistant.

"Impact of U.S. Health Care Provision Changes on Diet Quality Among the Poor", USDA-NIFA Foundational Program. PIs: Rebecca Boehm, Shaheer Burney, Rigoberto Lopez. Amount: \$259,960. June 2017. Unfunded. Participated in proposal preparation.

Teaching experience

University of Connecticut

Vertical Relations in U.S. Agricultural and Food Industries, Guest lecturer; Spring 2018

Business Strategies and Policy in Food Industries, Teaching Assistant; Spring 2018

Business Organization and Labor Markets, Teaching Assistant; Fall 2017, Fall 2018

International Commodity Trade, Teaching Assistant; Fall 2016

Seminars

2022

Feb 2022. Virginia Tech, Department of Agricultural and Applied Economics.

"Using Reduced Form and Computational General Equilibrium Models to Analyze the Impacts of Regional Trade Agreements"

Feb 2022. Clemson University, Department of Agricultural Sciences.

"Roads, Trade, and Development: Evidence from the Agricultural Boom in Brazil"

Jan 2022. Texas A&M, Department of Agricultural Economics.

"Roads, Trade, and Development: Evidence from the Agricultural Boom in Brazil"

Jan 2022. University of Wisconsin Madison, Applied and Agricultural Economics.

"Roads, Trade, and Development: Evidence from the Agricultural Boom in Brazil"

2021

Nov 2021. Louisiana State University, Department of Agricultural Economics and Agribusiness.

"Import Evasion in the Agricultural Market"

Conference Presentations (20)

2021

2021 IATRC (International Agricultural Trade Research Consortium) Annual Meeting December 12-14, 2021. (Online)

"Roads, Trade, and Development: Evidence from the Agricultural Boom in Brazil" (Joint work with Gil Depaula, Wendong Zhang)

Australasian Agricultural & Resource Economics Society (AARES) Annual Conference Feb 8, 2021: "Projecting China's Future Agricultural Imports: A Partial Equilibrium Modeling Approach" (Joint work with Wendong Zhang, Dermot J. Hayes, Amani Elobeid, Miguel Carriquiry, Minghao Li)

GTAP Annual Conference June 23-25, 2021.

"Modeling the Agricultural Trade Impacts of RCEP via an Integrated Partial Equilibrium and General Equilibrium System" (Joint work with Anton Yang, Edward Balistreri, Wendong Zhang)

AAEA Annual Meeting, July 31-August 2 2021, Texas, Austin,

COVID-19 and Regional Economy in China: A General Equilibrium Modelling using GAMS (With Edward Balistreri, Gyu Hyun Kim, Wendong Zhang)

China's Growing Feed Imports: Projections from the CARD Agricultural Modeling Approach (With Dermot Hayes, Miguel Carriquiry, Amani Elobeid, Wendong Zhang, Minghao Li)

Road Access and Growth in Brazil: The Role of Market Liberalization (with Gil Depaula and Wendong Zhang)

Media Exposure and Midwestern Farmers' Responses to the U.S-China Trade War (with Minghao Li, Wendong Zhang, Lulu Rodriguez, James M Gbeda, Shuyang Qu)

2020

WI National Data Consortium (WiNDC) online seminar June 24, 2020.

"The Impacts of COVID-19 on the Chinese Economy: Subnational Data and Preliminary Results" (With Edward Balistreri, Wendong Zhang).

2018

AAEA Annual Meeting, Washington, DC; August 2018

"Bigger Farms and Bigger Firms: The Agricultural Origin of Industrial Concentration in the Food Sector"

"Medicaid Expansion and Choices of Carbonated Soft Drinks among Low-income Households." (With Lopez, R. & Boehm, R)

NAREA Preconference Workshop and Conference, Philadelphia, PA; June 2018

"Bigger Farms and Bigger Firms: The Agricultural Origin of Industrial Concentration in the Food Sector."

"How Does SNAP Affect Diet Quality? The Role of Diet Management and Diet Quality Cycle." (With Zhenshan Chen)

2017

AAEA Annual Meeting, Chicago, IL; August 2017

"Stochastic Frontier Estimation of Buyer and Seller Power: An Application to the Brazilian Milk Market." (with Scalco, P. R. and Lopez, R. A.)

“Does Online Advertising Offsets the Effectiveness of Alcohol Outdoor Advertising Regulations?”
 “What Drives Household Healthy Food Choices? Evidence from FoodAPS.” (With Zhenshan Chen)

2016

AAEA Annual Meeting, Boston, MA ; August 2016

“Do Firms Price and Advertise to Maximize Profits? Evidence from US Food Industries.”

“Food Price, Firm Productivity and Market Structure in Indonesian Food and Beverages Industry.”

The 38th ISMS Marketing Science Conference, Shanghai, China; June 2016

“Are Online and Offline Advertising Substitutes or Complements? Evidence from U.S. Food Industries.” (With Lopez, R. & Liu, Y.)

2015

AAEA Annual Meeting, San Francisco, CA; August 2015

“Substitution between Online and Offline Advertising: Evidence from the CSD Industry.” (With Lopez, R. & Liu, Y.)

NAREA Annual Meeting, Newport, RI; June 2015

“Political Economy of Emerging Chinese Agricultural Subsidies.” (with Lopez, R. A. & De Falcis, E.)

Media Coverage

Is China’s Hog Rebuilding Complete? Reconciling Inventory and Price Data.

Bloomberg

He, X., Hayes, D. J., and Zhang W. 2020. China’s Agricultural Imports under the Phase One Deal: Is Success Possible? Center for Agricultural and Rural Development (CARD) at Iowa State University.

The Gazette, Successful Farming, Wallaces Farmer; FarmProgress

He, X., Lopez, R., & Boehm, R. (2020). Medicaid expansion and non-alcoholic beverage choices by low-income households, *Health Economics* 20, 340–353.

ScienceDaily, BenefitsPro, EurekAlert!

Awards, Scholarships and Fellowships, Services

2022/23 **Topic leader** of AAEA Health Economics Section

2022 Committee member of the Best Paper Award of of AAEA Health Economics Section

2022 **Reviewer** for AAEA Abstract

2022 **Reviewer** for GTAP Conference Abstract

2021 WI National Data Consortium (WiNDC) Summer Workshop

2021 AAEA Health Economics Section Best Paper award "Medicaid expansion and non-alcoholic beverage choices by low-income households" published in *Health Economics*

2018 AAEA Travel Award, AAEA (\$500); Preconference Workshop Travel Support, NAREA (\$1050); Doctoral Dissertation Fellowship, UConn; The Nathan Koenig Scholarship, ARE, UConn

2017 The Russell Palen Fund Scholarship, ARE, UConn; Predoctoral Fellowship, Graduate School, UConn

2016 Stanley K. Seaver Scholarship, ARE, UConn; Summer Fellowship, Graduate School, UConn; Paul Putnam Travel Award, ARE, UConn

2015 Charles J. Zwick Award, ARE, UConn; Predoctoral Fellowship, Graduate School, UConn; Travel Award, NAREA

Referee Services

General Economics

American Economic Journal-Economic Policy; Journal of Applied Econometrics; Journal of Asian Economics; Journal of Industry, Competition and Trade; China Economic Review; Review of Industrial Organization; Sustainability;

Agricultural Economics

American Journal of Agricultural Economics; Agribusiness-An international journal; International Food and Agribusiness Management Review; Western Economics Forum

Skills

Computer: Stata, ArcGIS, Python, R, GAMS

Languages: Chinese Mandarin (Native), English (Proficient)

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