

ORANUCH WONGPIYABOVORN

Brookings, SD 57006

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EDUCATION

Ph.D., Economics, Iowa State University, Ames IA May 2023
Dissertation: Evolution in the relationships among nitrogen fertilizer, corn, and natural gas prices

M.A., Economics, Thammasat University, Bangkok, Thailand Jul 2014
Thesis: Impacts of Financial Development on Economic Growth: Evidence from Thailand, Malaysia, and The Philippines

B.Econ., Economics, Thammasat University, Pathum Thani, Thailand Oct 2012
First-Class Honors

WORK EXPERIENCE

Ness School of Management and Economics, South Dakota State University, Brookings SD

Postdoctoral research associate Jan 2024 – Present
Supervisor: Dr. Tong Wang

Center for Agricultural and Rural Development, Iowa State University, Ames IA

Postdoctoral research associate Jul 2023 – Dec 2023
Supervisor: Dr. Chad Hart

PTT Public Company Limited, Thailand

Analyst – Economic and Industry Research Department Sep 2015 – Jul 2017

Thailand Development Research Institute, Thailand

Researcher – Macroeconomic Policy Program Apr 2014 – Aug 2015

Researcher – Macroeconomic Policy Program (part-time) Apr 2013 – Mar 2014

Student Intern – Sectoral Economic Program May – Jun 2012

Bank of Thailand, Thailand

Student Intern—Economic Intelligence Team, Monetary Policy Group Mar - May 2011

RESEARCH FIELDS

Agricultural economics, environmental economics, fertilizer markets, cropping system, climate change, conservation practices, ag carbon market.

PEER REVIEWED PUBLICATIONS

Plastina, A., H. Jo, and **O. Wongpiyabovorn**. 2024. “The business case for carbon farming in the USA” *Carbon Balance and Management*, 19, 7. <https://doi.org/10.1186/s13021-024-00253-5>.

Wongpiyabovorn, O., A. Plastina, and J.M. Crespi. 2023. “Challenges to Voluntary Ag Carbon Markets.” *Applied Economic Perspectives and Policy*, 45(2), 1154–1167. <https://doi.org/10.1002/aep.13254>.

Wongpiyabovorn, O. 2016. “Financial development and economic growth: the cases of Thailand, Malaysia, and the Philippines.” *International Journal of Economic Policy in Emerging Countries*, 9(2), 103–126. <https://doi.org/10.1504/IJEPEE.2016.077274>.

OUTREACH PUBLICATIONS

Wongpiyabovorn, O., and A. Plastina. 2023c. “Carbon Farming: Stacking Payments from Private Initiatives and Federal Programs.” Ag Decision Maker File A1-40, Iowa State University Extension and Outreach. ([Link](#))

Wongpiyabovorn, O., and A. Plastina. 2023b. “Financial Support for Conservation Practices: EQIP and CSP.” Ag Decision Maker File A1-39. Iowa State University Extension and Outreach. ([Link](#))

Wongpiyabovorn, O., and A. Plastina. 2023a. “Voluntary Private Carbon Initiatives: An Update.” 2023 Farmland Leasing and Management Workshops. Iowa State University Extension and Outreach.

Wongpiyabovorn, O., C. Hart, and J. Crespi. 2022. “Fertilizer Markets: The Clash between Energy, Ag, Weather, Profits, and Policy.” *Agricultural Policy Review*, Winter 2022. Center for Agricultural and Rural Development, Iowa State University. ([Link](#))

Plastina, A., **O. Wongpiyabovorn**, and J. Crespi. 2022. “What’s in Store for Voluntary Agricultural Carbon Markets?” *Agricultural Policy Review*, Winter 2022. Center for Agricultural and Rural Development, Iowa State University. ([Link](#))

Wongpiyabovorn, O., A. Plastina, and S. Lence. 2021. “Futures Market for Ag Carbon Offsets under Mandatory and Voluntary Emission Targets.” *Agricultural Policy Review*, Fall 2021. Center for Agricultural and Rural Development, Iowa State University. ([Link](#))

Plastina, A., and **O. Wongpiyabovorn**. 2021. “How to Grow and Sell Carbon Credits in US Agriculture.” Ag Decision Maker File A1-76. Iowa State University Extension and Outreach. Last updated November 2023. ([Link](#))

STAFF REPORTS

Wongpiyabovorn, O., and C.E. Hart. 2024. “Cedar Rapids Food and Bioprocessors Manufacturing Report.” Staff report 24-SR 124. Center for Agricultural and Rural Development, Iowa State University. ([Link](#))

Crespi, J.M., C.E. Hart, C.C. Pudenz, L.L. Schulz, **O. Wongpiyabovorn**, and W. Zhang. 2022. “An Examination of Recent Fertilizer Price Changes.” Staff report 22-SR 117. Center for Agricultural and Rural Development, Iowa State University. ([Link](#))

PUBLISHED WORKING PAPER

Wongpiyabovorn, O., A. Plastina, and J. Crespi. 2021. “US Agriculture as a Carbon Sink: From International Agreements to Farm Incentives.” Working paper 21-WP 627. Center for Agricultural and Rural Development, Iowa State University. ([Link](#))

ONLINE ARTICLE

Wongpiyabovorn, O., A. Plastina, and J. Crespi. 2023. "Policies To Reduce GHG Emissions Should Look to Agricultural Carbon Markets." ProMarket, March 6, 2023. ([Link](#))

WORK IN PROGRESS

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- Connections between Biofuel Policy and Fertilizer (co-authored with Chad Hart) – submitted to JAAEA.
 - Interplay between USDA Programs and Voluntary Private Carbon Initiatives (co-authored the Alejandro Plastina, Andrew Rosenberg, and Ben Gramig) – submitted to JSWC.
 - Potential economic and environmental impacts of payments for cover crops and no-till adoption (co-authored with Alejandro Plastina)
 - Revisiting land use conversion trends in the margins of U.S. Corn Belt (co-authored with Tong Wang)

RESEARCH PRESENTATIONS

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6. "Revisiting Land Use Conversion Trends in South Dakota" paper presented at the Agricultural Policy, Economics, and Diverse Farms and Farmers Virtual Conference, March 5–6, 2024.
 5. "The Business Case for Carbon Farming in the USA" paper presented at the NC-1177 Annual Meeting, Atlanta, GA, October 12-13, 2023.
 4. "Changes in the Relationship between Nitrogen Fertilizer and Natural Gas Prices in the U.S." paper presented at the 2021 AAEE Annual Meetings, Austin, TX, August 1-3, 2021.
 3. "The Impact of Financial Development of Economic Growth in Thailand, Malaysia, and the Philippines" paper presented at the Asia-Pacific Economic Association Conference 2014, Bangkok, Thailand, July 2014.
 2. "The Impact of Financial Development of Economic Growth in Thailand, Malaysia, and the Philippines" paper presented at the Society of Interdisciplinary Business Research – Thammasat 2014 Conference, Bangkok, Thailand, June 2014.
 1. "The Impact of Financial Development of Economic Growth in Thailand, Malaysia, and the Philippines" paper presented at the 14th International Society for Business Innovation and Technology Management Conference, Phuket, Thailand, May 2014. – Outstanding Paper Award

EXTENSION PRESENTATION

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1. Wongpiyabovorn, O. "The Major Causes of Record-high Fertilizer Prices" presented at the Integrated Crop Management Conference 2022, Ames, Iowa, November 30 – December 1, 2022. ([PDF](#), [PPT](#))

RESEARCH EXPERIENCES

Iowa State University, Ames, IA, USA

Research Assistant

Oct 2022 – Spring 2023

Topic: Incentives for carbon sequestration, the role of markets and the USDA

Duties: Gathering information, reviewing the literature, writing a white paper

Supervisor: Dr. Alejandro Plastina

Research Assistant

Summer 2022

Topic: An examination of recent fertilizer price changes

Duties: Analyzed the relationship between natural gas, corn, and fertilizer prices

Supervisor: Dr. John Crespi

Research Assistant

Summer 2021

Topic: Carbon pricing initiatives in the United States

Duties: Collected information, reviewed literature, wrote a white paper

Supervisors: Dr. Alejandro Plastina, Dr. John Crespi

Research Assistant

Fall 2018

Topic: Downstream effect on team-based learning in Calculus I

Duties: Cleaned and analyzed data using statistical methods, reviewed literature

Supervisor: Dr. Darin Wolgemuth

TEACHING EXPERIENCES

Iowa State University, Ames, IA, USA

Teaching Assistant

Introduction to Agricultural Markets S2022

Ag, Food, and Trade Policy S2022

Principles of Microeconomics F2017, S2018, S2019, F2019, S2020, F2020, S2021, F2021

Principles of Macroeconomics S2018, S2021

International Economics S2019

Agricultural Finance F2019

Thammasat University, Thailand

Teaching Assistant

Introduction to Econometrics 2013

Applied Econometrics 2013

Quantitative Methods for Financial Research 2013

Principles of Macroeconomics 2012

Introduction to Financial Econometrics 2012

Statistics for Economists 2012

FELLOWSHIPS

Scholarship Program - Bank of Tokyo-Mitsubishi UFJ 2013 - 2014

Scholarship - ISUZU Group Foundation 2012

EXTRACURRICULAR ACTIVITIES AND SERVICES

External Reviewer for International Journal of Agricultural Sustainability 2023

Review Editor for Frontiers in Environmental Economics – Resource Economics 2023 - Present
Treasurer – Thai Student Association at Iowa State University 2019 - 2023
Participant in the Three Minute Thesis (3MT) preliminary competition 2021
External Reviewer for International Journal of Economic Policy in Emerging Economies 2020

ADDITIONAL SKILLS

- Language: Fluent in English and Native in Thai
- Computer: STATA, R, Python, ArcGIS Pro, Microsoft Word/ Excel/ PowerPoint, LaTeX