

HYESEON SHIN

PERSONAL INFO

Office	327 Ag Admin Building 2120 Fyffe Rd., Columbus, OH 43210	Email Website	shin.774@osu.edu www.hyeseonshin.com
--------	---	------------------	--

EDUCATION

The Ohio State University Ph.D. candidate, Agricultural, Environmental, and Development Economics	Ohio, USA 2019 - 2025 (expected)
Seoul National University M.A. in Economics, Agricultural and Resource Economics Major	Republic of Korea 2017 - 2019
University of Groningen Exchange Student, Economics and Business Economics	The Netherlands 2015 Fall
Seoul National University B.A. in Economics, Agricultural and Resource Economics Major [Cum laude]	Republic of Korea 2013 - 2017

RESEARCH INTERESTS

International Trade, Agricultural Economics, Environmental Economics, and Climate Change

WORKING PAPERS

"Agriculture, Trade, Migration and Climate Change" (*Job market paper*)

Abstract: Climate change can affect agricultural production through land productivity and multicropping capacities, with effects largely heterogeneous across countries and crops. Given the agricultural sector’s substantial contribution to both income and employment in many developing economies, evolving agro-climatic conditions have the potential to reshape labor reallocation as well as agricultural production. I build and quantify a dynamic spatial general equilibrium model incorporating farmers’ optimal crop choices, international trade, and forward-looking household migration. Findings indicate that under RCP 8.5, the overall global welfare effect on agricultural workers is modest, yet welfare effects vary substantially across countries. Results also highlight that the general equilibrium effects of labor mobility are nontrivial, and domestic structural transformation, in particular, plays a crucial role in mitigating the adverse effects of climate change.

Presentations: Camp Resources XXX, AAEA Annual Meeting, AAEA-KREI Workshop, JIE Summer School, MEA Annual Meeting, MSU AFRE Brown Bag Seminar, IATRC Annual Meeting, Columbia University IPWSD

"Dynamics of Global Emission Permit Prices and Regional Social Cost of Carbon under Noncooperation"

- Draft available in Arxiv. (with Y. Cai, and K. Malik)

Abstract: We build a dynamic multi-region model of climate and economy with emission permit trading among 12 aggregated regions in the world. We solve for the dynamic Nash equilibrium under noncooperation, wherein each region adheres to the emission cap constraints following commitments that were first outlined in the 2015 Paris Agreement and later strengthened under the Glasgow Pact. Our model shows that the emission permit price reaches \$845 per ton of carbon by 2050. We demonstrate that a regional carbon tax is complementary to the global cap-and-trade system, and the optimal regional carbon tax is equal to the difference between the regional marginal abatement cost and the permit price.

Presentations: LSE Environment Camp, Heartland Workshop, OSU Interdisciplinary Research Fall Forum

PUBLICATIONS

"Upgrading Food Product Quality: The Impact of Tariffs and Standards"2024
Journal of Agricultural and Resource Economics (with J. Eum, I. Sheldon, and S. Thompson)

Abstract: In this paper, the effect of non-tariff measures (NTMs) on efforts to upgrade food product quality is analyzed. Based on a multi-sector Schumpeterian model, with three channels, threat of entry, compliance costs, and monopoly profits, NTMs are predicted to have heterogeneous effects on product quality upgrading. Using disaggregated data for 14 European Union countries across 18 food industries for the period 2008-2019, NTM enforcement is found to deter quality upgrading for products distant from the quality frontier due to compliance costs. Conversely, NTM enforcement stimulates quality upgrading for products close to the quality frontier, driven by an increased probability of capturing monopoly profits.

PRESENTATIONS

Camp Resources XXX Workshop (NC State University, Asheville), 2024 Agricultural & Applied Economics Association Annual Meeting (AAEA, New Orleans), AAEA-KREI Workshop (Korea Rural Economic Institute, New Orleans), Summer School in International Economics, by the Journal of International Economics (University of Oxford), LSE Environment Camp (London School of Economics), AFRE Brown Bag Seminar (Michigan State University), Annual Meetings of the 88th Midwest Economics Association (MEA, Chicago)	2024
International Agricultural Trade Research Consortium 2023 Annual Meeting (IATRC, Florida), Interdisciplinary Research Fall Forum: Computational Approaches for a Just and Sustainable World (The Ohio State University), The Heartland Environmental and Resource Economics Workshop (University of Illinois Urbana-Champaign), Interdisciplinary PhD Workshop in Sustainable Development (IPWSD, Columbia University), Annual Meetings of the 87th Midwest Economics Association (MEA, Cleveland)	2023
Annual Meetings of the 86th Midwest Economics Association (MEA, Minneapolis)	2022

OTHER PUBLICATIONS

"The Future of (Ag-) Trade and Trade Governance in Times of Economic Sanctions and Declining Multilateralism" , IATRC Trade Policy Brief. (with R. G. da Silva, V. Litvinov, S. Oh, and A. P. T. Nguyen.)	2024
"Korean Food Safety Management System: Organizational and Legal Improvement Plans" (Korean) [†] - Research funded by <i>Ministry of Agriculture, Food and Rural Affairs, Republic of Korea.</i>	2019
"Reformulating FTA Compensation Plans for Agriculture Industry" (Korean) [†] - Research funded by <i>Korea Rural Economic Institute, Republic of Korea.</i>	2017
"Improving Mutual Benefits: Korea - New Zealand FTA" (Korean) [†] - Research funded by <i>Ministry of Agriculture, Food and Rural Affairs, Republic of Korea.</i>	2017

(†) Project participation as a research assistant

AWARDS AND GRANTS

Travel Grant, LSE Environment Camp	2024
Travel Grant, IATRC 2023 Annual Meeting	2023
Travel Grant, IPWSD-Columbia University	2023
University Fellowship, The Ohio State University	2019-2020
Lecture and Research Scholarship, Seoul National University	2017
Scholarship, Hans' Scholarship Foundation	2016, 2018
Minister of Agriculture, Food and Rural Affairs Award (Best Paper Award)	2016
OIA Outgoing Exchange Student Scholarship, Seoul National University	2015
Merit-based Scholarship, Seoul National University	2014, 2015, 2017, 2018
Scholarship, Samsung Welfare Foundation	2014
Scholarship, Kwanak Corporation	2014

TEACHING EXPERIENCE

The Ohio State University	
Lab Instructor Econometric Application in Ag. Business and Applied Econ. [SEI 4.5/5]	Spring 2023
Teaching Assistant Managerial Records and Analysis	Fall 2020
Seoul National University	
Teaching Assistant Macroeconomics	Fall 2017

OTHER SKILLS

Software & Tools	GAMS, STATA, Matlab, ArcGIS, Python, R, L ^A T _E X
Languages	English (fluent), Korean (native)

PROFESSIONAL REFERENCES

Ian Sheldon (advisor)

Professor
sheldon.1@osu.edu
614-292-2194
Dissertation Committee Chair
The Ohio State University
Dept. of Agricultural, Environmental, and
Development Economics
Andersons Chair of Agricultural Marketing,
Trade and Policy

Yongyang Cai

Professor
cai.619@osu.edu
614-688-2654
Dissertation Committee Member
The Ohio State University
Dept. of Agricultural, Environmental, and
Development Economics

Abdoul Sam

Professor
sam.7@osu.edu
614-247-8647
Dissertation Committee Member
The Ohio State University
Dept. of Agricultural, Environmental, and
Development Economics

Seungki Lee

Assistant Professor
lee.10168@osu.edu
614-247-9170
Dissertation Committee Member
The Ohio State University
Dept. of Agricultural, Environmental, and
Development Economics