

# HYESEON SHIN

## PERSONAL INFO

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## EDUCATION

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

## RESEARCH INTERESTS

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

<b>"Upgrading Food Product Quality: The Impact of Tariffs and Standards"</b> * (Forthcoming) <i>Journal of Agricultural and Resource Economics</i> (with J. Eum, I. Sheldon, and S. Thompson)	2024*
<i>Abstract:</i> 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, 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.	

## WORKING PAPERS

<b>"Agriculture, Trade, Migration and Climate Change"</b> ( <i>Job market paper</i> ) <i>Abstract:</i> Given the agricultural sector's substantial contribution to both GDP and employment in developing economies, climate shocks affecting agricultural productivity have the potential to reshape inter-regional and inter-sectoral labor reallocation, as well as agricultural production. I build and quantify a dynamic spatial general equilibrium model incorporating farmers' optimal crop choices, household migration, and international trade. The model is quantified for 12 major crops and 60 regions covering 145 countries around the world. This study shows that the general equilibrium effects of labor mobility are nontrivial, and labor reallocation can play a crucial role in mitigating the adverse effects of climate change along with production and trade adjustments.
<b>"Dynamics of Global Emission Permit Prices and Regional Social Cost of Carbon under Noncooperation"</b> - Submitted. Draft available in Arxiv. (with Y. Cai, and K. Malik) <i>Abstract:</i> 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 updated in subsequent years. Our model shows that the emission permit price reaches \$811 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

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

## NON-REFEREED 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) <sup>†</sup> - Research funded by <i>Ministry of Agriculture, Food and Rural Affairs, Republic of Korea.</i>	2019
"Reformulating FTA Compensation Plans for Agriculture Industry" (Korean) <sup>†</sup> - Research funded by <i>Korea Rural Economic Institute, Republic of Korea.</i>	2017
"Improving Mutual Benefits: Korea - New Zealand FTA" (Korean) <sup>†</sup> - Research funded by <i>Ministry of Agriculture, Food and Rural Affairs, Republic of Korea.</i>	2017

(†) Project participation as a research assistant

## AWARD 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

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

## OTHER SKILLS

<b>Software &amp; Tools</b>	GAMS, STATA, Matlab, ArcGIS, Python, R, L <sup>A</sup> T <sub>E</sub> X
<b>Languages</b>	English (fluent), Korean (native)

**PROFESSIONAL REFERENCES**

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**Ian Sheldon (advisor)** Professor  
[sheldon.1@osu.edu](mailto:sheldon.1@osu.edu)  
Dissertation Committee Chair  
The Ohio State University  
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Andersons Chair of Agricultural Marketing,  
Trade and Policy

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