

HYESEON SHIN

PERSONAL INFO

Office	GN 622, 35, Baekbeom-ro, Mapo-gu Seoul, Republic of Korea, 04107	Email	hsshin@sogang.ac.kr
		Website	www.hyeseonshin.com

ACADEMIC POSITION

Sogang University	<i>Republic of Korea</i>
Assistant Professor, Department of Economics	2025 Fall -

EDUCATION

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

RESEARCH INTERESTS

International Trade, Agricultural Economics, Environmental Economics, 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: NC State Conference on International Economics, 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" (with Y. Cai, and K. Malik)

Abstract: Abstract We build a dynamic multi-region model of climate and economy with emission permit trading among 12 aggregated regions of 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 \$923 per ton of carbon by 2050, and global average temperature is expected to reach 1.7 degrees Celsius above the pre-industrial level by the end of this century. We demonstrate, both theoretically and numerically, that the regional social cost of carbon is equal to the difference between the regional marginal abatement cost and the permit price. We find significant heterogeneity in the regional social cost of carbon, and that global emission trading has little impact on this measure. We also find that when the regional emission caps are lax, and therefore non-binding, a global emission trading system may lead to higher emissions under noncooperation, underscoring the necessity of maintaining stringent global emission caps to ensure efficient functioning of the emission trading system.

Presentations: SNU Environmental Economics Workshop, 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)

OTHER ARTICLES

"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

PRESENTATIONS (*SCHEDULED)

2025 World Congress*, Environmental Economics Workshop at Seoul National University, NC State Conference on International Economics 2025

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

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

OTHER SKILLS

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

PROFESSIONAL REFERENCES

Ian Sheldon	Professor sheldon.1@osu.edu The Ohio State University	Yongyang Cai	Professor cai.619@osu.edu The Ohio State University
Abdoul Sam	Professor sam.7@osu.edu The Ohio State University	Seungki Lee	Assistant Professor lee.10168@osu.edu The Ohio State University