

SUHYUN JUNG

Postdoctoral Research Fellow
International Forestry Resources and Institutions (IFRI) Research Network
School of Natural Resources and Environment, University of Michigan
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EDUCATION

Ph.D. in Applied Economics, University of Minnesota 2015
Dissertation:
“Toward Efficient Land-Use Decisions: Impact of Economic Incentives on Ecosystem Services”
Principal Advisor: Stephen Polasky

Ph.D. Fields:
Environmental and Resource Economics (Major)
Development Economics (Concentration)

Research Fields:
Environmental Regulation Policy
Land Use and Land Cover Change
Valuation of Ecosystem Services

M.S. in Agricultural Economics, University of Tennessee 2009
B.S. in Food and Resource Economics, Korea University 2007

RESEARCH

Research Fellow

University of Michigan 2015 – Current
Large-Scale Land Transactions as Drivers of Land-Cover Change in Sub-Saharan Africa
Evaluate the impact of land transactions on land cover and livelihoods in Ethiopia, Liberia, and Tanzania using field survey and existing biophysical and socioeconomic data
Impact Evaluation of International Climate Fund (ICF) 's Cerrado Program
Qualitative and quantitative analyses on the impact of projects to promote CAR (environmental registry program) registration on possible livelihood impacts

Research Assistant

University of Minnesota 2009 – 2015
The Responsible Soy Project in Brazil
Conduct quantitative and qualitative analysis evaluating the impact of the Responsible Soy project, a joint collaboration between Cargill and The Nature Conservancy (TNC), in Brazil
Impact of Rapid Land-Use Change in the Northern Great Plains (NASA grant)
Develop an individual profit maximization framework to predict land use change and conduct an

analysis of ecosystem services resulting from various conservation policy changes

Natural Capital Project

Create global agricultural production cost data to calculate the opportunity cost of land for conservation

Minnesota Extension Project

Econometric analysis of employment, commuting, and labor force changes in non-metropolitan Minnesota

University of Tennessee

2007 – 2009

Evaluate environmental amenity values through a hedonic housing price model using spatial regressions, investigate interrelationship between urban sprawl and poverty and impact of government funding policies to mitigate poverty in the southern US

I&S Business Consulting Group, Korea

Summer 2007

Consultant Internship

Develop agri-tourism and ways to improve marketing of agricultural products for Rural Community Development Project issued by the Korean Ministry of Agriculture

Publications

Liao, Chuan, **Jung, Suhyun**, Brown, Dan B., Agrawal, Arun. 2016. Insufficient Research on Land Grabbing. *Science* 353(6295): 131.

Jung, Suhyun, Cho, Seong-Hoon, Roberts, Roland. K. 2014. “The Impact of Government Funding of Poverty Reduction Programs” *Papers in Regional Science* 94(3): 653-675.

Kovacs, Kent F., Haight, Robert. G., **Jung, Suhyun**, Locke, Dexter. H. 2013. “The Marginal Cost of Carbon Abatement from Planting Trees in New York City” *Ecological Economics* 95:1-10.

Cho, Seong-Hoon, **Jung, Suhyun**, Roberts, Roland K., Kim, SeungGyu. 2012. “Interrelationship between Poverty and Urban Sprawl in the Southern United States” *Applied Economics* 44(11):1405-1416.

Lambert, Dayton M., Cho, Seong-Hoon, **Jung, Suhyun**. 2012. “Modification of the simultaneous least squares – Probit Nelson-Olson Covariance Estimator for Stratified Surveys” *Economics Letters* 116: 519-522.

Cho, Seong-Hoon, Kim, SeungGyu, Roberts, Roland K., **Jung, Suhyun**. 2009. “Environmental Amenity Values over Space and Time in the Southern Appalachian Highlands” *Ecological Economics* 68:2646-2657.

Cho, Seong-Hoon, **Jung, Suhyun**, Kim, SeungGyu. 2009. “Valuation of Forests: Spatial and Species Configurations in the Southern Appalachian Highlands” *Environmental Management* 43(4): 628-644.

Cho, Seong-Hoon, Lambert, Dayton M., Kim, SeungGyu, **Jung, Suhyun**. 2009. “Extreme Coefficients in Geographically Weighted Regression and Their Effects on Mapping” *GIScience & Remote Sensing* 46: 273-288.

Papers submitted for publication

Jung, Suhyun, Rasmussen, Laura V., Watkins, Cristy, Newton, Peter, Agrawal, Arun. “Brazil’s National Environmental Registry of Rural Properties: Implications for Rural Livelihoods” Under revision, *Ecological Economics*

Jung, Suhyun. “How Much Did We Lose/Gain as a Result of New Soybean Export Outlet in the Northern Brazilian Amazon?” Submitted to *Environmental and Resource Economics*.

Papers in Preparation

Jung, Suhyun, Polasky, Steve. “Agricultural Development and Efforts to Prevent Deforestation in the Amazon”

Jung, Suhyun, Liao, Chuan, Agrawal, Arun, Brown, Dan. “Quantitative impact assessment of forestry concessions on livelihoods in Liberia”

Jung, Suhyun, Polasky, Steve. “Construction of Globally Consistent Agricultural Production Cost”

Jung, Suhyun, Polasky, Steve. “A Missing Component in Calculating the Opportunity Cost of Land for Conservation through Global Tradeoff Analyses among Ecosystem Services”

Zheng, Haochi, Polasky, Steve, **Jung, Suhyun**. “Farmers’ Optimal Choices on Land Use and Management Practices and Their Consequences on Ecosystem Services”

Papers Presented at Seminars and Professional Meetings

Jung, Suhyun. 2016. “Quantitative impact assessment of forestry concessions on livelihoods in Liberia” Land Transactions Workshop, April 20-21, Ann Arbor, Michigan.

Jung, Suhyun. 2015. “How Much Should We Compensate Farmers in Global South to Mitigate Climate Change while Meeting Increasing Food Demand?” Agricultural & Applied Economics Association Annual Meeting. July 26-28, San Francisco, California.

Jung, Suhyun. 2014. “Global Tradeoff between Carbon and Agricultural Return: Construction of Global Agricultural Production Cost Dataset” Environmental and Resources Seminar in the Applied Economics Department at the University of Minnesota. November 10. Saint Paul, MN

Jung, Suhyun. 2014. “Can Agricultural Multinationals Provide Ecosystem Services More Efficiently? PhD Workshop in Sustainable Development. Earth Institute, Columbia University. April 25-26. New York.

Jung, Suhyun, Polasky, Stephen. 2013. 2014. “The Effectiveness of Monitoring and Enforcement of Environmental Regulations by Agricultural Multinationals and NGOs in the Brazilian Amazon” University of Minnesota Environmental and Resource Economics Seminar. October 7, 2013. Saint Paul, Minnesota. & Allied Social Science Associations. January 3-5, Philadelphia, Pennsylvania.

- Jung, Suhyun**, Polasky, Stephen. 2012. “Global Agricultural Production Cost Data to Evaluate Tradeoff Value of Land” Natural Capital Project Annual Meeting. Palo Alto, California.
- Davis, Elizabeth., **Jung, Suhyun**. “Employment, Commuting and Labor Force Changes in Non-metropolitan Minnesota” Southern Regional Science Association Annual Meeting, March 25-27, 2010. Arlington, VA- Washington, DC.
- Jung, Suhyun**, Cho, Seong-Hoon, Robert, Roland K. “Investigating the Efficiency of Government Expenditure on Poverty Reduction” Allied Social Science Associations. January 3-5, 2010. Atlanta, Georgia.
- Cho, Seong-Hoon, Lambert, Dayton M., Kim, SeungGyu, **Jung, Suhyun**. “Extreme Coefficients in Geographically Weighted Regression and Their Effects on Mapping” Agricultural and Applied Economics Association Annual Meeting. July 26-28, 2009. Milwaukee, Wisconsin.
- Cho, Seong-Hoon, Kim, SeungGyu, Roberts, Roland K., **Jung, Suhyun**. “Amenity Values of Spatial Configuration of Forest Landscapes over Space and Time in the Southern Appalachian Highlands” Agricultural and Applied Economics Association Annual Meeting. July 26-28, 2009. Milwaukee, Wisconsin.
- Cho, Seong-Hoon, **Jung, Suhyun**, Kim, SeungGyu. 2009. “Valuation of Forests: Spatial and Species Configurations in the Southern Appalachian Highlands” Southern Regional Science Association Annual Meeting, March 26-30, 2008. Arlington, VA- Washington, DC.

TEACHING

University of St. Thomas

Instructor, Undergraduate course 2014 – 2015
Econ 252 Principles of Microeconomics

University of Minnesota

Instructor, PhD course Summers 2010, 2011
Numerical analysis software (MATLAB) course
Develop syllabus, materials, and teach MATLAB course for incoming Applied Economics PhD students

Teaching Assistant, Undergraduate and Master’s courses Spring 2010, 2013
ApEc5032 Economic Data Analysis for Managerial and Policy Decisions
ApEc1101 Principles of Microeconomics: lead two review sessions (review topics, create and solve problems every week)

AWARDS AND HONORS

University of Minnesota

2014 – 2015: Interdisciplinary Center for the study of Global Change (ICGC) Global Food Security Fellowship – university-wide competition for research grant of \$15,000;
Consortium Intramural Research Awards – university-wide competition for research

grant of \$6,292

2014: Council of Graduate Students (COGS) Travel Award – travel grant of \$533

2013 – 2014: Interdisciplinary Dissertation Fellowship - hosted by the Institute on the Environment with full fellowship support including tuition, stipend (\$22,500), office space, plus a research grant of \$2,000

2012: Graduate Program Fellowship - tuition and stipend benefits

2011: Center for International Food and Agricultural Policy Travel Grant - travel grant of \$2,000 in support of dissertation research in Brazil

2010: Litterman Fellowship - stipend benefit

University of Tennessee

2009: Outstanding MS Student Award - awarded to a student each year to recognize excellent academic achievement in the Agricultural and Resource Economics department

SERVICE

Professional Affiliation

American Economic Association (AEA)

American Agricultural Economics Association (AAEA)

Association of Environmental and Resource Economists (AERE)

American Association for the Advancement of Science (AAAS)

Research Fellow, School of Natural Resources and Environment (SNRE) 2015 – Current

Research Fellow, International Center for Global Change (ICGC) 2014 – 2015

Interdisciplinary Doctoral Fellow, Institute on the Environment (IonE) 2013 – 2014

Contributions to Symposia, Workshops, and Annual Meetings

Forest & Livelihoods: Assessments, Research, and Engagement (FLARE) 2015 – 2016

Frontiers in the Environment seminar series, Institute on the Environment 2014 – 2015

Journal Reviewer

World Development, Sustainability, Biological Invasions

Service to University

School of Natural Resources and Environment, University of Michigan

Mentor for students in Doris Duke Conservation Scholars Program Summer, 2016

Department of Applied Economics, University of Minnesota

Mentor for incoming PhD students 2012 – 2015

International Student Representative 2010 – 2011