

## SUHYUN JUNG

Assistant Professor

Division of Resource Economics and Management

West Virginia University

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## EDUCATION

- Ph.D.** in Applied Economics, University of Minnesota 2009 – 2015  
Dissertation: “Toward Efficient Land-Use Decisions: Impact of Economic Incentives on Ecosystem Services”  
Principal Advisor: Stephen Polasky
- M.S.** in Agricultural Economics, University of Tennessee 2007 – 2009
- B.S.** in Food and Resource Economics, Korea University 2001 – 2007
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## ACADEMIC POSITIONS

**Assistant Professor, West Virginia University** 2019 – Current

- *Impact Evaluation of Conservation and Development Policies*
- *Analyses of Microeconomic Mechanisms for Sustainable Development*
  - Access to Information and How it Affects Land Use and Livelihoods in Uganda – Estimation of impacts of increased access to information through a mobile phone ownership on deforestation and livelihoods

**Research Fellow, University of Michigan** 2015 – 2019

- *Livelihood implications of conservation and development projects/policies*
  - Environmental registry program in Brazil and of forestry intervention programs in Ghana
  - Large-Scale Land Transactions as Drivers of Land-Cover and Livelihood Changes in Sub-Saharan Africa – Impacts of land transactions on land cover and livelihoods and mechanisms behind them in Ethiopia, Liberia, and Tanzania
- *Coping Strategies for Natural Hazards*
  - Investigation of how having different levels of natural or social capital affect people’s ability to cooperate with an earthquake in Nepal

**Research Assistant, University of Minnesota** 2009 – 2015

- *The Responsible Soy Project in Brazil* - Quantitative and qualitative analysis on the impact of the Responsible Soy project, a joint collaboration between Cargill and The Nature Conservancy in Brazil
- *Impact of Rapid Land-Use Change in the Northern Great Plains* - Develop a 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

**Research Assistant, 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

**Summer Intern, I&S Business Consulting Group, Korea**

Summer 2007

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

**Peer-reviewed Journal Papers**

1. **Jung, S.**, Liao, C., Agrawal, A., Brown, D. G. 2019. “Evidence on Wealth-Improving Effects of Forest Concessions in Liberia” *Journal of Association of Environmental and Resource Economists* 6(5): 961-1000.
2. **Jung, S.**, Polasky, S. 2018. “Partnerships to Prevent Deforestation in the Brazilian Amazon” *Journal of Environmental Economics and Management* 92: 498-516.
3. **Jung, S.** 2018. “Evidence on Land Deals’ Impacts on Local Livelihoods” *Current Opinion in Environmental Sustainability* 32: 90-95.
4. Rasmussen, L. V., **Jung, S.**, Brites, A. D., Watkins, C., Agrawal, A. 2017. “Understanding Smallholders’ Intended Deforestation Behavior Following Environmental Registry in Brazil” *Environmental Research Letters* 12: 094001.
5. **Jung, S.**, Rasmussen, L. V., Watkins, C., Newton, P., Agrawal, A. 2017. “Brazil’s National Environmental Registry of Rural Properties: Implications for Rural Livelihoods” *Ecological Economics* 136: 53-61.
6. Liao, C., **Jung, S.**, Brown, D. G., Agrawal, A. 2016. “Insufficient Research on Land Grabbing” *Science* 353(6295): 131.
7. Newton, P., Gomez, A., **Jung, S.**, Kelly, T., Mendes, T., Rasmussen, L. V., Reis, J., Rodrigues, R., Tipper, R., Horst, D., Watkins, C. 2016. Overcoming Barriers to Low Carbon Agriculture and Forest Restoration in Brazil: The Rural Sustentável project. *World Development Persp.* 4: 5-7.
8. **Jung, S.**, Cho, S., Roberts, R. K. 2014. “The Impact of Government Funding of Poverty Reduction Programs” *Papers in Regional Science* 94(3): 653-675.
9. Kovacs, K. F., Haight, R. G., **Jung, S.**, Locke, D. H. 2013. “The Marginal Cost of Carbon Abatement from Planting Trees in New York City” *Ecological Economics* 95:1-10.
10. Lambert, D.M., Cho, S., **Jung, S.** 2012. “Modification of the simultaneous least squares – Probit Nelson-Olson Covariance Estimator for Stratified Surveys” *Economics Letters* 116: 519-522.
11. Cho, S., **Jung, S.**, Roberts, R. K., Kim, S. 2012. “Interrelationship between Poverty and Urban Sprawl in the Southern United States” *Applied Economics* 44(11):1405-1416.
12. Cho, S., Kim, S., R., R. K., **Jung, S.** 2009. “Environmental Amenity Values over Space and Time in the Southern Appalachian Highlands” *Ecological Economics* 68:2646-2657.
13. Cho, S., **Jung, S.**, Kim, S. 2009. “Valuation of Forests: Spatial and Species Configurations in the Southern Appalachian Highlands” *Environmental Management* 43(4): 628-644.
14. Cho, S., Lambert, D. M., Kim, S., **Jung, S.** 2009. “Extreme Coefficients in Geographically

Weighted Regression and Their Effects on Mapping” *GIScience & Remote Sensing* 46: 273-288.

Manuscripts submitted

15. **Jung, S.**, Dyngeland, C., Rausch, L., Laura V. R. “Exploring Causal Links Between the National Environmental Registry (CAR) and Land Use in Brazil” *Journal of Development Economics*. Under Review.
16. Rasmussen, L. V., Rhemtulla, J., Fagan, M. E., Ickowitz, A., Wood, S.L.R., Kennedy, G., Powell, B., Baudron, F., Gergel, S., Groot, J.C.J., **Jung, S.**, Smithwick, E.A.H., Sunderland, T., Wood, S. “Forest Pattern, not Just Amount, Influences Dietary Quality in Five African Countries” *Global Food Security*. Under Review.
17. Liao, C., **Jung, S.**, Agrawal, A., Brown, D. “Spatial Patterns of Large-Scale Land Transactions and Socio-Environmental Outcome Scenarios: Evidence from Cambodia, Ethiopia, Liberia and Peru” *Land Degradation & Development*. Under Review

Manuscript in Preparation

1. **Jung, S.**, Rogers, M. “Call Me Maybe? The Impact of Mobile Phone Use on Livelihoods through Land Cover Change”
2. Liu, W., **Jung, S.**, Gerber, E., Agrawal, A. “The Tradeoffs between Human and Social Capitals in Earthquake Recovery”
3. **Jung, S.**, Hajjar, R., Agrawal, A. “Livelihood Impacts of Conservation Programs for Climate Change Mitigation by International Donors: Evidence from Ghana”
4. **Jung, S.**, Agrawal, A. “Does Knowledge about Land Rights and Social Cohesion Matter in People’s Resource Extraction Behaviors?: Experimental Evidence from Liberia”
5. **Jung, S.** “How Much Did We Lose/Gain as a Result of New Soybean Export Outlet in the Northern Brazilian Amazon?”
6. **Jung, S.**, Polasky, S. “Construction of a Globally Consistent Agricultural Production Cost Data Set”

**Papers Presented at Professional Meetings (peer-reviewed only)**

1. **Jung, S.**, Hajjar, R., Agrawal, A. 2018. “Evidence on Effectiveness of Conservation Initiatives on Improving Livelihoods” Sustainable Development Conference. November 9-11. Ann Arbor, Michigan.
2. **Jung, S.**, Polasky, S. 2018. “Private Initiatives’ Efforts to Prevent Deforestation in the Amazon” World Congress of Environmental and Resource Economists. June 25-29. Gothenburg, Sweden.
3. Rasmussen, L. V., **Jung, S.**, Brites, A. D., Watkins, C., Agrawal, A. 2017. “Understanding Smallholders’ Intended Deforestation Behavior Following Environmental Registry in Brazil” Agricultural and Applied Economics Association Annual Meeting. July 30 - August 1. Chicago, Illinois.
4. **Jung, S.**, Rasmussen, L. V., Rausch, L., Dyngeland, C. 2017. “An Environmental Registry as a

- Mechanism that Affects Land Cover and Livelihoods in Brazil” Association for Environmental and Resource Economists Annual Meeting. May 31-June 2, Pittsburgh, Pennsylvania.
5. **Jung, S.**, Liao, C., Agrawal, A., Brown, D. G. 2016. “Quantitative Impact Assessment of Forestry Concessions on Livelihoods in Liberia” FLARE meeting. December 2-4, Edinburgh, U.K., Land Transactions Workshop. April 20-21, Ann Arbor, Michigan.
  6. **Jung, S.** 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.
  7. **Jung, S.** 2014. “Can Agricultural Multinationals Provide Ecosystem Services More Efficiently?” PhD Workshop in Sustainable Development. Earth Institute, Columbia University. April 25-26. New York.
  8. **Jung, S.**, Polasky, S. 2014. “The Effectiveness of Monitoring and Enforcement of Environmental Regulations by Agricultural Multinationals and NGOs in the Brazilian Amazon” Allied Social Science Associations – American Economic Association. January 3-5, Philadelphia, Pennsylvania.
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## GRANTS

Extensive experiences in writing grant proposals for grant opportunities such as Smart and Connected Communities (SCC) and Dynamics of Coupled Natural and Human Systems from the National Science Foundation (NSF), McIntire Stennis Research Program from United States Forestry Services (USFS), and other numerous international funding opportunities

- 2016 – 2018: *Dow Sustainability Postdoctoral fellowship, University of Michigan* (PI) – university-wide competition for research grant of \$15,000
- 2014 – 2015: *Interdisciplinary Center for the study of Global Change (ICGC) Global Food Security Fellowship, University of Minnesota* (PI) – university-wide competition for research grant of \$15,000;
- 2014: *Consortium Intramural Research Awards, University of Minnesota* (PI) – university-wide competition for research grant of \$6,292 and Council of Graduate Students (COGS) Travel Grant of \$533
- 2013 – 2014: *Interdisciplinary Dissertation Grant (Fellowship), University of Minnesota* (PI) – 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
- 2011: *Center for International Food and Agricultural Policy Travel Grant, University of Minnesota* (PI) – travel grant of \$2,000 in support of dissertation research in Brazil

## AWARDS/HONORS

- 2012: Graduate Program Fellowship - tuition and stipend benefits
- 2010: Litterman Fellowship - stipend benefit
- 2009: Outstanding MS Student Award - awarded to a student each year to recognize excellent academic achievement in the Agricultural and Resource Economics department

## TEACHING

- **Enumerator trainings/workshops** for survey data collection and experiments 2016 – Current  
(Instructor, Brazil, Ghana, and Liberia)
  - **Econ 252: Principles of Microeconomics**  
(Instructor, University of St. Thomas) 2014 – 2015
  - **Numerical analysis software (MATLAB) course**  
(Instructor, University of Minnesota) Summers 2010, 2011
  - **ApEc5032: Economic Data Analysis for Managerial and Policy Decisions**  
(Teaching Assistant, University of Minnesota) Spring 2010, 2013
  - **ApEc1101: Principles of Microeconomics**  
(Teaching Assistant, University of Minnesota) Spring 2010, 2013
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## SERVICE

### Professional Affiliation

- American Economic Association (AEA)
- American Agricultural Economics Association (AAEA)
- Association of Environmental and Resource Economists (AERE)
- Research Fellow, School for Environment and Sustainability (SEAS) 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 – Current
- Frontiers in the Environment seminar series, Institute on the Environment 2014 – 2015

### Journal Reviewer

- Journal of Environmental Economics and Management, World Development, Land Use Policy, Papers in Regional Science, Sustainability, Journal of International Development, Biological Invasions

### Student Mentoring and Advising

- School for Environment and Sustainability, University of Michigan
  - Advising MS graduates for data management and research 2017 – Current
  - Advising 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