

Juhee Lee

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RESEARCH AREAS

My research interests encompass Natural Resource and Environmental Economics, Agri-Environmental Policy, Production Economics and Farm Management, and Economic Geography.

My special interests include water, land use and agri-environmental payments design associated with optimization of agricultural production and profitability while protecting the environment; farm management for risk reduction in production, price or market, policy, and food security; quantification and valuation of ecosystem services; adaptation and management of climate changes for the low-carbon economy including forest carbon sequestration, crop insurance, renewable energy policies, and carbon pricing such as the emissions trading systems and the carbon taxes; and supply and trade of traditional and alternative energy sources.

The overall goal of my research is ultimately to meet agricultural and environmental sustainability and social welfare by linking the interaction and interdependency between agricultural production and the natural and environmental resources to the social welfare through farm management.

EDUCATION

- Expected 2019 **Ph.D. Candidate, Agricultural Economics, Kansas State University, KS, USA**
- *Dissertation: Essays on Economics of Salinity in Irrigated Agriculture*
 - *Advisor: Nathan Hendricks*
 - *Committee: Tian Xia, Gabriel Sampson, and Jonathan Aguilar*
 - *Assistantship for all educational years*
- 2015 **M.S., Agricultural and Resource Economics, Minor in Statistics, University of Tennessee, Knoxville TN, USA**
- *Thesis: Spatial and Temporal Impacts of Incentive Payments for Forest-Based Carbon Sequestration*
 - *Advisor: Seong-Hoon Cho*
 - *Committee: Roland Roberts, Paul Armsworth, and Edward Yu*
 - *Assistantship for all educational years*
- 2010 **M.A., International Studies (Specialization: Russian Studies), Hanyang University, Seoul, Korea**
- *Academic Scholarship for all educational years*
 - *Summa Cum Laude and Departmental Honors*

- 2006 **B.S., Political Science, Double Major in Business Administration, Keimyung University, Daegu, Korea**
• *Academic Scholarship for all educational years*

PUBLICATIONS

Work in Progress

1. Agricultural Decisions in Response to Groundwater Salinity on Irrigated Lands in Kansas (Job Market Paper)
2. The Effect of Groundwater Salinity on Land Values in Kansas (with Nathan P. Hendricks)
3. Crop Choice Decisions in Response to Soil Salinity on Irrigated Lands in California (with Nathan P. Hendricks)
4. Analysis of South Korea's Import Demand by the Expansion of Mandatory Labeling of Genetically Modified Crops (with Tian Xia)

Journal Articles

1. Cho, S.H., **Lee, J.**, Roberts, R., Edward, T.Y. and Armsworth, P.R., 2018. Impact of market conditions on the effectiveness of payments for forest-based carbon sequestration. *Forest Policy and Economics*, 92, pp.33-42.
2. Cho, S. H., **Lee, J.**, Roberts, R. K., English, B. C., Yu, E. T., Kim, T., and Armsworth, P. R. 2017. Evaluating a tax-based subsidy approach for forest carbon sequestration. *Environmental Conservation*, 44(3), 234-243.
3. **Lee, J.H.** 2010. The Formation of Chinese's Economic Blocs in Central Asia and A Role of Shanghai Cooperation Organization, *Journal of the Graduate School of International Studies* 6: 41-58. Seoul, Korea.
4. **Lee, J.H.** 2009. Strategies of Advancing to Central Asia of Korea's Power Plant Industry through Carbon Capture and Storage Technology (CCS), *Journal for Central Asia Studies* 2: 151-172. Seoul, Korea.
5. Kim, J.H., **Lee, J.H.**, and Kang, B.G. 2009. A Study on the Motives of the Authoritarianism in Kazakhstan and National Governance, *Journal for Central Asia Studies* 2: 5-31. Seoul, Korea.
6. **Lee, J.H.**, 2009. A Study on the Secessionism Motives of the Russian Federation Focusing on the Post-Soviet Union Era and Chechnya. *Journal of the Graduate School of International Studies* 6: 5-36. Seoul, Korea.
7. Eun, S.T. and **Lee, J.H.** 2008. The Change of Turkmenistan Gas Cooperation by China's Appearance: A Study on the Validity by Interdependence Theory, *Journal for Central Asia Studies* 1: 85-108. Seoul, Korea.

Research Papers

1. J.K. Seo and **J.H. Lee.** 2013 Development Feasibility of a Natural Gas Trading Hub in Asia. *World Energy Market Insight* 13 (15): 3-12. *KEEI*, Seoul, Korea.
2. K.J. Kim, J.K. Seo, E.M. Lee, J.H. Park, N.J. No, H.C. Shin, and **J.H. Lee.** 2013. The Quality Control and Effective Supply Plan for Russia PNG. Oil and Gas Policy Research Division, Energy Policy Research Group, *KEEI-13-3*, Seoul, Korea.

3. K.J. Kim, E.M. Lee, H.J. Do, S.K. Lee, U.T. Jung, S.M. Lee, H.J. Lee, **J.H. Lee**, and M.L. Lee. 2013. The Role and Cooperation of Korea Gas Corporation in Northeast Asia, Oil and Gas Policy Research Division, Energy Policy Research Group, *KEEI-13-1*, Seoul, Korea.
4. J.H. Jung, J.K. Seo, E.M. Lee, J.H. Park, H.C. Shin, M.L. Yeo, and **J.H. Lee**. 2012. Changes in LNG Market Conditions and the Need for Trading Business. Oil and Gas Policy Research Division, Energy Policy Research Group, *KEEI-12-11*, Seoul, Korea.
5. K.J. Kim, J.K. Seo, E.M. Lee, J.H. Park, H.C. Sin, and **J.H. Lee**. 2012. Trade Enforcement for LNG. Oil and Gas Policy Research Division, Energy Policy Research Group, *KEEI-12-11*, Seoul, Korea.
6. J.K. Seo, E.M. Lee, J.H. Park, and **J.H. Lee**. 2012. Pricing Methods and Optimal Portfolio of Term-Contracts and Spot Deals for LNG Imports, Oil and Gas Policy Research Division, Energy Policy Research Group, *KEEI-12-5*, Seoul, Korea.
7. K.J. Kim, J.K. Seo, J.H. Park, H.C. Shin, and **J.H. Lee**. 2012. Prospects of Shale Gas Development, Its Ripple Effect on Related Industries and Policy Direction, Oil and Gas Policy Research Division, Energy Policy Research Group, *KEEI-12-5*, Seoul, Korea.
8. K.J. Kim, J.K. Seo, E.M. Lee, J.H. Jung, and **J.H. Lee**. 2011. Feed-Pressure Standards for High-pressure Gas. Oil and Gas Policy Research Division, Energy Policy Research Group, *KEEI-11-12*, Seoul, Korea.
9. K.J. Kim, J.K. Seo, E.M. Lee, and **J.H. Lee**. 2011. Institutional Improvement for Extension of LNG Storage Capacities, Oil and Gas Policy Research Division, Energy Policy Research Group, *KEEI 11-12*, Seoul, Korea.

Online Journal Articles

1. **Lee, J.H.**, 2009. "An Adoption Problem of Russia", *e- Eurasian Studies Review* 15: 30-31. Seoul, Korea.
2. **Lee, J.H.**, 2009. "Cotton Industry of Uzbekistan and Achievements of Daewoo International Corporation, Korea's Largest Trading Company and a Subsidiary of POSCO", *e- Eurasian Studies Review* 13: 22-26. Seoul, Korea.
3. Kang, B.G. and **J.H. Lee.**, 2008. "The Progress and Prospect after the Russia-Georgia War", *e- Eurasian Studies Review* 9: 49-53 Seoul, Korea.

AWARDS, HONORS AND FELLOWSHIPS

- K-State PROUD award, Kansas State University, July 2019
- College of Arts and Sciences Travel Awards, Kansas State University, July 2019
- Graduate Student Council Travel Award, July 2019
- Department of Agricultural Economics Travel Grant, Kansas State University, July 2019
- Graduate Student Council Travel Award, February 2019
- Department of Agricultural Economics Travel Grant, Kansas State University, February 2019
- College of Arts and Sciences Travel Awards, Kansas State University, June 2018
- Department of Agricultural Economics Travel Grant, Kansas State University, June 2018
- Graduate Research Fellowship funded by the National Research Foundation of Korea, 2010-2011
- Global Fellows Internship funded by Korea Institute for International Economic Policy, 2009
- First Place Award on Thesis Competition of the Graduate School of International Studies, Korea, 2008
- International Cultural Exchange Fellowship Program in Japan funded by Keimyung University, 2005
- English Special Fellowship sponsored by International Education Center, Keimyung University, 2004

CONFERENCE PRESENTATIONS & POSTERS

“The Effect of Groundwater Salinity on Land Values in Kansas”

Selected Poster, Agricultural and Applied Economics Association Annual Meeting in Atlanta, GA, July 21-23, 2019.

“Agricultural Decisions in Response to Groundwater Salinity on Irrigated Lands”

Selected Presentation, Midwest Economics Association Annual Meeting in St. Louis, MO, March 15-17, 2019.

“Agricultural Decisions in Response to Groundwater Salinity on Irrigated Lands in Kansas”

Selected Presentation, Southern Agricultural Economics Association Annual Meeting in Birmingham, AL, February 2-5, 2019.

“Analysis of South Korea’s Import Demand by the Expansion of Mandatory Labeling of Genetically Modified Crops”

Selected Presentation, Western Agricultural Economics Association Annual Meeting in Anchorage, AK, June 24-26, 2018.

“Exploring Tax-Based Payment Approach for Forest Carbon Sequestration”

Selected Presentation, Southern Agricultural Economics Association Annual Meeting in Atlanta, GA, February 26-28, 2010.

“Mahalla as Negative Social Capital: The Case of Uzbekistan”

Selected Presentation, Center for Russian and East European Studies, University of Pittsburgh. 7th Annual International Graduate Conference: “Environment, Identities, and Space in Europe and Central Asia”, in Pittsburgh, PA, February 26-28, 2010.

TEACHING EXPERIENCE

- Tutor, Kansas State University. Educational Supportive Services, Summer 2019
- Teaching Assistant, Kansas State University. AGEC 120: “Agricultural Economics and Agribusiness”, Spring 2019
- Teaching Assistant, Kansas State University. AGEC 525: “Natural Resource and Environmental Economics”, Fall 2015, Fall 2016
- Teaching Assistant, University of Tennessee, AREC 320: “Microeconomics of Agriculture, Food and Resources”, Fall 2013, Fall 2014
- Guest Lecturer, Kansas State University. ECON 120: “Principles of Microeconomics”, Spring 2019
- Guest Lecturer, Kansas State University. POLSC 643: “Global Human Rights”, Spring 2019
- Guest Lecturer, Kansas State University. ECON 530: “Money and Banking”, Fall 2018
- Guest Lecturer, Kansas State University. POLSC 333: “World Politics”, Fall 2018

RESEARCH EXPERIENCE

Research Assistant, Kansas State University, Spring 2018–Present

Connected the Water Management and Policy Project to my dissertation related to soil and water salinity with intent to publish.

Research Assistant, Kansas State University and University of Nebraska-Lincoln project (Water Management and Policy), Fall 2015–Fall 2017

Generated and compiled data for water, soil, weather, and hydrologic variables for the project; created computer code for the data and documented all variables; and examined all policies that have been implemented related to irrigation in Kansas within Groundwater Management Districts and documented what policies were implemented, when they were implemented, and key aspect of these policies.

Research Assistant, University of Tennessee USDA Agricultural and Food Research Initiative (AFRI) project (Urban Net Return in Land Use Model), Fall 2013–Spring 2015

Developed a pixel-level land use model to link forest-based carbon incentive payments and projected site-specific carbon sequestration levels for the forestland with DAYCENT ecosystem model; estimate site-specific opportunity costs of sequestering carbon and the concomitant regional economic impacts.

Assistant researcher, Asia-Pacific Research Center at Hanyang University, Seoul, Korea, May 2011–October 2011

Conducted extensive research for the creation and coordination of the ‘Journal of Eurasian Studies (JES)’, focused on Eurasian issues in general and on the following seven topical issues in particular: National Identity, Political/Economic Transition, Migration, Energy Problems, International Development, Culturology, and The History of Everyday Life.

- <https://www.sciencedirect.com/journal/journal-of-eurasian-studies>

A research project participant, Institute for International Economic Policy, Sejong-Si, Korea, May 2011–October 2011

Conducted research on Status and Revitalization of Human Resources Exchange in Korea-Central Asia.

Assistant researcher, Institute of Far Eastern Studies Russian Academy of Sciences, Moscow, Russia, March 2010–February 2011

Conducted extensive research discipline sponsored by the National Research Foundation of Korea.

- *Advisor: Alexander Zhebin, Director; K.V. Asmolov and C.C. Cuclina, Senior Fellows*
- *Research Agenda I: Regional Development of Russian Far East and Eastern Siberia and Northeast Asia (focused on development policy and expansion strategies)*
- *Research Agenda II: Issues of Russian East Siberia and the Far East and Northeast Asia (focused on natural resources and environmental issues)*

Assistant researcher, Asia-Pacific Research Center at Hanyang University, Seoul, Korea, March 2008–November 2009

Conducted extensive research to support the construction of Information Provider System for Eurasia.

- *Research Agenda I: Identity and Cultural Coexistence in Eurasia: Establishment of the Eurasian Studies and a Comprehensive Regional Information System*
- *Research Agenda II: Russia’s Energy Policy within CIS and Prospects for Russian-Korean Energy Cooperation*
- <http://www.eurasiahub.org/eng/contents/main.asp>

PROFESSIONAL EXPERIENCE

Researcher, Oil and Gas Policy Research Division, Energy Policy Research Group, Korea Energy Economics Institute (KEEI), Ulsan, Korea, October 2011–August 2013

Conducted research on the following Research Projects and Papers:

- Feed-Pressure Standards for High-pressure Gas
- Assessment System for LNG Import Contracts
- Role Sharing between LNG and LPG
- Quality Control and Supply Stabilization of Russia's Pipeline Natural Gas in 2012
- Pricing Methods and Optimal Portfolio of Term-Contracts and Spot Deals for LNG Imports
- Prospects of Shale Gas Development, Its Ripple Effect on Related Industries and Policy Direction
- Changes in LNG Market Conditions and the Need for Trading Business
- Institutional Improvement for Extension of LNG Storage Capacities
- Development Feasibility of a Natural Gas Trading Hub in Asia

Administrative Staff at Support Division, Korean Embassy and Korean Cultural Center in Russia, Moscow, Russia, March 2010–September 2010

Undertook planning and public relations for cultural events including:

- Celebration of the 20th anniversary of Korea-Russia amity, the G20 Summit, the Korean Film Festival, Exhibition of Korea-Russia Art, Russia Taekwondo Championship, Provincial Tours for Cultural Festival, Korean Cooking Class
- Held discussion meetings for the press and wrote press releases regarding major incidents such as the sinking of the Cheonan and the Bombardment on Yeonpyeong Island

OTHER EXPERIENCE

Completion of the Professional Development Certificate, October 2018–May 2019

Participated in informational meetings, interdisciplinary activities, workshops, and forums that enhance the professional development of graduate students.

Completion of the GTA Professional Development Series Course, September 2018–April 2019

Participated in teaching events to gain knowledge and skills in teaching offered by the Teaching & Learning Center, as well as talks, conferences, symposiums, roundtables etc. related to teaching and learning that occur within the K-State community.

Completion of the Top Hat Certification Level 1 and 2, April 2019

Participated in training how to utilize the various tools, educational content, and skill in teaching.

Internship at TOW Co., Ltd, a trading company in Tashkent, Uzbekistan funded by Korea Institute for International Economic Polic, January 2009–February 2009

Undertook field research for Daewoo Textile Fergana and Clean Development Mechanism (CDM) of Uzbekistan and wrote a research report.

Completion of the course of Graduate Program for Area Studies-Central Asia Specialist (GPAS) sponsored by Korea Institute for International Economic Policy, March 2008–February 2010

Educated on security, politics, economics, religion, and ethnicity in Central Asia.

Completion of the workshop sponsored by Ministry of Foreign Affairs and Trade, July 2008

Educated on key issues, such as FTA, climate change, poverty, war, human rights.

Internship sponsored by Institute of Foreign Affairs and National Security, June 2008–August 2008

Undertook the task of making a research paper on Russian and Korean energy policy.

Completion of the education program sponsored by Korea Tobacco & Ginseng Corporation, January 2005–February 2005

Educated in marketing, planning, and public relations and participated in marketing presentation competition.

VOLUNTEER WORK

- Missionary and volunteer work in Qingdao, China, July 2007
- Volunteer for oil-spill in the Coast of Taean, Korea, December 2007
- Volunteer for Indian Reservation Area, USA, July 2000–September 2000
- Volunteer for the physically disabled at International Rehabilitation Centre, Korea, December 1998–January 1998

PROFESSIONAL AFFILIATIONS

- Served as a helper for the Risk and Profit Conference, Kansas State University, August 2016, 2019
- Served as an assistant for the Korea-Central Asia International Conference hosted by Asia-Pacific Research Center and The Institute of Far Eastern Studies, May 2008–February 2010
- Served as an advertisement and educational manager, National Model United Nations Conference, Department of Political Science and Diplomacy, Keimyung University, Korea, September 2004–August 2006
- Served a subgroup leader, Christian Club, Keimyung University, Korea, March 2000–July 2002

SOFTWARE AND LANGUAGE SKILLS

- Statistical and Mathematical Software: Stata, R, Matlab, SPSS, SAS and GAMS
- Other Software: ArcGIS, Geoda, DAYCENT ecosystem model, LaTeX, Microsoft Office Specialist and Computer Literacy Certifications (Microsoft Excel, Word, Access, Power Point)
- Language: Korean (native), English and Russian (moderate), Japanese and Chinese (basic)

REFERENCES

Professor Nathan Hendricks
Department of Agricultural
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Professor Tian Xia
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Kansas State University

Professor Gabriel Sampson
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