

## Juhee Lee

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Department of Agricultural Economics  
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### **RESEARCH AREA**

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My research interests encompass natural resource and environmental economics, energy economics, agricultural and energy policy, and applied econometrics. The main focus of my research is on water use and quality, renewable energy economics, land use, and optimal environmental policy design. I have secondary interests in risk management in agricultural production, food and energy security, climate change economics, and crop insurance. The overall goal of my research is to provide analysis on the impacts of agricultural policy on the environment that can be relevant and useful to academic, industry, and policymaker audiences.

### **EDUCATION**

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- Expected 2020 **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*

### **AWARDS, HONORS, AND FELLOWSHIPS**

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

## **PUBLICATIONS**

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### Working Papers

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 Hendricks)
3. Crop Choice Decisions in Response to Soil Salinity on Irrigated Lands in California (with Nathan 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., **J. Lee**, R. Roberts, E.T. Yu, and P.R. Armsworth. 2018. "Impact of market conditions on the effectiveness of payments for forest-based carbon sequestration." *Forest Policy and Economics* 92:33–42.
2. Cho, S.H., **J. Lee**, R.K. Roberts, B.C. English, E.T. Yu, T. Kim, and P.R. Armsworth. 2017. "Evaluating a tax-based subsidy approach for forest carbon sequestration." *Environmental Conservation* 44(3):234–243.
3. **Lee, J.** 2010. "The Formation of the Chinese Economic Blocs in Central Asia and the Role of Shanghai Cooperation Organization." *Journal of the Graduate School of International Studies* 6: 41-58. Seoul, Korea.
4. **Lee, J.** 2009. "Strategies for Korea's Power Plant Industry to Advance into Central Asia through Carbon Capture and Storage Technology." *Journal for Central Asia Studies* 2: 151-172. Seoul, Korea.
5. Kim, J.H., **J. Lee**, and B.G. Kang. 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.**, 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 **J. Lee**. 2008. "The Change in Turkmenistan Gas Cooperation with a Rising China: A Study on the Feasibility Analysis by Interdependence Theory." *Journal for Central Asia Studies* 1: 85-108. Seoul, Korea.

### Research Reports

1. Seo, J.K. and **J. Lee**. April 2013. "Feasibility of a Natural Gas Trading Hub in Asia." *World Energy Market Insight* 13(15): 3-12. Korea Energy Economics Institute, Seoul, Korea.
2. Kim, K.J., J.K. Seo, E.M. Lee, J.H. Park, N.J. No, H.C. Shin, and **J. Lee**. March 2013. "The Quality Control and Effective Supply Plan for Russian Pipeline Natural Gas." *Research Project Report* 13-03, Korea Energy Economics Institute, Seoul, Korea.
3. Kim, K.J., E.M. Lee, H.J. Do, S.K. Lee, U.T. Jung, S.M. Lee, H.J. Lee, **J. Lee**, and M.L. Lee. January 2013. "The Role of the Korea Gas Corporation in Northeast Asia." *Research Project Report* 13-01, Korea Energy Economics Institute, Seoul, Korea.
4. Kim, K.J., J.K. Seo, E.M. Lee, J.H. Park, H.C. Sin, and **J. Lee**. December 2012. "Trade Enforcement for Liquefied Natural Gas." *Final Report for the Ministry of Knowledge Economy* 12-12. Korea Energy Economics Institute, Seoul, Korea.
5. Seo, J.K., E.M. Lee, J.H. Park, H.C. Shin, M.L. Yeo, and **J. Lee**. November 2012. "Changes in Liquefied Natural Gas Market Conditions and the Need for International Trade." *Research Project Report* 12-11, Korea Energy Economics Institute, Seoul, Korea.
6. Kim, K.J., J.K. Seo, J.H. Park, H.C. Shin, and **J. Lee**. November 2012. "Shale Gas Development and Ripple Effects on Industry: Policy Implications." *Final Report for the Ministry of Knowledge Economy* 12-11, Korea Energy Economics Institute, Seoul, Korea.
7. Seo, J.K., E.M. Lee, J.H. Park, and **J. Lee**. May 2012. "Pricing and Optimal Portfolio of Long-term Liquefied Natural Gas Contracts." *Research Project Report* 12-05, Korea Energy Economics Institute, Seoul, Korea.
8. Seo, J.K., E.M. Lee, and **J. Lee**. April 2012. "Institutional Improvement for Liquefied Natural Gas Infrastructure Extension." *Occasional Research Report* 12-04, Korea Energy Economics Institute, Seoul, Korea.
9. Kim, K.J., J.K. Seo, E.M. Lee, J.H. Jung, and **J. Lee**. December 2011. "Feed-Pressure Standards for High-Pressure Gas." *Final Report for Korea Gas Corporation* 11-12, Korea Energy Economics Institute, Seoul, Korea.

### Online Journal Articles

1. **Lee, J.**, 2009. "Russia's orphans: International adoption problems from Russia." *e- Eurasian Studies Review* 15: 30-31. Seoul, Korea.
2. **Lee, J.**, 2009. "Daewoo International Corporation's Successful Entry into the Cotton Industry of Uzbekistan." *e- Eurasian Studies Review* 13: 22-26. Seoul, Korea.
3. Kang, B.G. and **J. Lee**. 2008. "The Progress and Prospect after the Russian-Georgian War." *e- Eurasian Studies Review* 9: 49-53. Seoul, Korea.

### PRESENTATIONS

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"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

## CURRICULUM VITAE FOR JUHEE LEE

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**

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- Tutor, Kansas State University. Educational Supportive Services, Summer 2019
- Teaching Assistant, Kansas State University. AGECE 120: “Agricultural Economics and Agribusiness”, Spring 2019
- Teaching Assistant, Kansas State University. AGECE 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**

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#### **Research Assistant, Kansas State University, Spring 2018–Present**

Conducted further research from USDA’s Multistate Research Project on “Management and Policy Challenges in a Water-Scarce World” with envision publishing the outputs in academic journals.

#### **Research Assistant, USDA’s Multistate Research Project, “Management and Policy Challenges in a Water-Scarce World”, Fall 2015–Fall 2017**

Compilation and creation of datasets from water, soil, weather, and hydrologic variables by creating computer code and documenting all variables; as well as examination of all policies that have been implemented related to irrigation within Groundwater Management Districts in Kansas and documented what policies were implemented, when they were implemented, and key aspect of these policies.

#### **Research Assistant, USDA’s Agricultural and Food Research Initiative Grants Program, “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.

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

Conducted extensive research for the creation and relational coordination of the Journal of Eurasian Studies, a peer-reviewed, open-access journal published by the Asia-Pacific Research Center.

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

**Project Assistant, Korean Institute for International Economic Policy, Sejong-Si, Korea, May 2011–October 2011**

Conducted research support for the Status and Revitalization of Human Resources Exchange between Korea and Central Asia Project.

**Research Intern, Institute of Far Eastern Studies Russian Academy of Sciences, Moscow, Russia, March 2010–February 2011**

Researched the following agendas:

- *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)*

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

Conducted research support for the Information Provider System construction 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**

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

Conducted quantitative and qualitative research regarding Energy Policies, Markets, and Development in a variety of tasks of government and related organizations.

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

Undertook public relations planning for Russia–South Korea relations.

- Major events: Korea-Russia Amity 20th Anniversary, G20 Summit, Provincial Tours for Cultural Festival, Exhibition of Korea-Russia Art, Russia Taekwondo Championship, Korean Film Festival, Korean Cooking Class and Competition

- Held discussion meetings for the press and generate press releases regarding significant incidents such as the sinking of the Cheonan and the Bombardment on Yeonpyeong Island.

## **OTHER EXPERIENCE**

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### **Completion of the Professional Development Certificate, Kansas State University, 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, Teaching and Learning Center, Kansas State University, September 2018–April 2019**

Participated in teaching events to gain knowledge and skills in teaching, 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, Kansas State University, April 2019**

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

### **Internship at TOW Co. Ltd. in Tashkent, Uzbekistan, January 2009–February 2009**

Undertook research for Clean Development Mechanism of Uzbekistan and field research at the Daewoo Textile Fergana company.

### **Completion of the Training Program of KIEP-GSIS Regional Experts jointly sponsored by the Korea Institute for International Economic Policy (KIEP) and the Graduate School of International Studies (GSIS), Korea, March 2008–February 2010**

Undertook intensive training, internships, and field research in Central Asia.

### **Completion of the Ministry of Foreign Affairs and Trade Workshop, Korea, July 2008**

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

### **Research Internship sponsored by the Institute of Foreign Affairs and National Security, Korea, June 2008–August 2008**

Undertook the task of making a research paper on Russian-South Korean energy cooperation.

### **Completion of the KT&G SangSang Marketing Mentoring Program sponsored by the Korea Tobacco & Ginseng (KT&G) Corporation, Korea, January 2005–February 2005**

Educated based on a comprehensive marketing and promotional plan.

## **VOLUNTEER WORK**

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- Missionary and volunteer work in Qingdao, China, July 2007
- Volunteer for cleaning-up Oil Spill in the Yellow Sea coast of Taean County, Korea, December 2007
- Volunteer on an American Indian reservation, Arizona, USA, July 2000–September 2000
- Volunteer for the physically disabled at the International Rehabilitation Center, Korea, December 1998–January 1999

## **PROFESSIONAL SERVICES AND AFFILIATIONS**

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### Professional Society Membership

- Agricultural and Applied Economics Association
- Southern Agricultural Economics Association
- Western Agricultural Economics Association

### Conference Discussant

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

### Department/University Committees/Activities

- Student helper – Annual Global Agenda for Sustainable Livestock Multi-Stakeholder Partnership Meeting, Kansas State University, September 2019
- Student helper – Annual Risk and Profit Conference, Kansas State University, August 2016, 2019
- Member – Eurasian Studies Association, Hanyang University, Korea, March 2008– March 2010
- Conference assistant organizer – Annual Korea-Central Asia International Conference hosted by the Asia-Pacific Research Center and the Institute of Far Eastern Studies, Korea, May 2008–February 2010
- Student educator – National Model United Nations Conference, Department of Political Science and Diplomacy, Keimyung University, Korea, September 2004–August 2006
- Subgroup leader – Christian club, Keimyung University, Korea, March 2000–July 2002

## **SOFTWARE AND LANGUAGE SKILLS**

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Statistical and Mathematical Software: Stata, R, Matlab, SPSS, SAS and GAMS

Other Software: ArcGIS, Geoda, DAYCENT ecosystem model, LaTeX, Microsoft Office programs as Excel, Access, Word, and Power Point (Microsoft Office Specialist certification/Excel Computer Literacy certification)

Languages: Korean (native), English (fluent), Russian (proficient/Testing of Russian as a Foreign Language certification), Japanese (basic), Chinese (basic)

## **REFERENCES**

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Nathan Hendricks  
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