

Yooan Kim

Ph.D. Candidate
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EDUCATION

Sep. 2020 ~ Present	Seoul National University Interdisciplinary Program in Agricultural and Forest Meteorology <i>Advisor: Kyo Suh</i> <i>Ph.D. Student</i>	Seoul, Korea
Mar. 2018 ~ Aug. 2020	Seoul National University Green Ecosystem Engineering/ International Agricultural Technology Thesis: Environmental Performances of Electric Vehicles on Regional Effective Factors using System Dynamics <i>Advisor: Kyo Suh</i> <i>M.Sc. in Agriculture</i>	Seoul, Korea
Mar. 2014 ~ Feb. 2016	Jeonbuk National University Department of Economics <i>B.S. in Economics</i> GPA: 4.5 / 4.5	Jeonju, Korea
Aug. 2010 ~ Present	American University School of International Service <i>Bachelor Student</i>	Washington D.C, United States

RESEARCH INTERESTS

- Sustainability Engineering
- Environmental impact assessment
- Life-cycle assessment
- System dynamics model
- Resource management

PUBLICATIONS (SCIE/ESCI)

1. Yooan Kim, Hakkwan Kim, Kyo Suh, "Environmental Performance of Electric Vehicles on Regional Effective Factors using System Dynamics", *JOURNAL OF CLEANER PRODUCTION*, (2021)
2. Chanwoo Kim, Younggu Her, Yooan Kim, Chanhoon Jung, Hangkyo Lim, Kyo Suh, "Evaluating the

effectiveness of HOCl application on odor reduction and earthworm population growth during vermicomposting of food waste employing *Eisenia fetida*", *PLOS ONE*, (2019)

PUBLICATIONS (DOMESTIC)

1. Yooan Kim, Solhee Kim, Kyo Suh, "Key Drivers of the Electric Vehicles Penetration Using Regional Panel Data", *Journal of Korea Planning Association*, (2020)
2. Jinsun Park, Solhee Kim, Yooan Kim, Sewoon Hong, Kyo Suh, "Evaluation of Carrying Capacity and Sustainability of Jeju Island using Onishi Model", *Journal of Korean Society of Rural Planning*, (2020)
3. Yooan Kim, Chanhoo Jung, Solhee Kim, Chanwoon Kim, Kyo Suh, "Analysis of a 6th Industrialization Model in the Saemangeum Grain Complex", *Journal of Korean Society of Rural Planning*, (2019)
4. Solhee Kim, Yooan Kim, Chanwoo Kim, Chanhoo Jung, "Quantitative Evaluation on Geographical Indication of Agricultural Specialty Products using Location Quotient (LQ) Index", *Journal of the Korean Society of Agricultural Engineers*, (2019)
5. Chanwoo Kim, Chanhoo Jung, Yooan Kim, Solhee Kim, Kyo Suh, "Evaluation for Sustainability of Land Use in Jeju Island using Ecological Footprint", *Journal of Korean Society of Rural Planning*, (2018)

CONFERENCES

1. Yooan Kim, Hakkwan Kim, Kyo Suh, "Analysis of Environmental Implications and Economic Feasibility of Potential Agricultural Residues as Resources from Standpoint", *The XX CIGR World Congress 2022*, Kyoto, Japan (Dec. 2022) - Poster
2. Yooan Kim, Solhee Kim, Kyo Suh, "Potential Environmental Implications of Regional Electric Vehicles Propagation using System Dynamics Modeling", *International Conference on Energy, Aquatech and Sustainability*, Siheung, Korea (Aug. 2021) - Oral
3. Yooan Kim, "Potential Environmental Implications of Regional Electric Vehicles Propagation using System Dynamics Modeling", *Student Conference for Sustainability 2021* co-hosted by Seoul National University and German Embassy, Seoul, Korea (Nov. 2021) - Poster
4. Minjoo Choi, Suyeon Min, Yooan Kim, "Development of agricultural insurance policy making toward establishment of climate risk governance in the Republic of Korea", *Student Conference for Sustainability 2021* co-hosted by Seoul National University and German Embassy, Seoul, Korea (Nov. 2021) - Poster
5. Yooan Kim, Solhee Kim, Kyo Suh, "System Dynamics Modeling for Finding Key Leverages to Promote Electric Vehicles", *5th CIGR International Conference "Integrating agriculture and society through engineering"*, Quebec, Canada (May. 2021) - Oral
6. Yooan Kim, Solhee Kim, Kyo Suh, "Potential Environmental Implication of Electric Vehicle Propagation Policy using System Dynamics", *International Conference on Electric Vehicle, Smart-Grid and Information Technology*, Jeju, Korea (Jun. 2020) - Oral
7. Solhee Kim, Yooan Kim, Kyo Suh, "Analysis Framework for the Environmental Implications of Battery Electric Vehicles (BEVs) on the National Power Roadmap", *International Conference on Electric-Vehicle, Smart Grid and Information Technology*, Jeju, Korea (Jun. 2020) - Oral
8. Solhee Kim, Yooan Kim, Seunghyun Han, Kyo Suh, "A Smart Logistics System Based on Idle Space for Minimizing the Marginal Cost of Agricultural Transportation Development", *Annual Conference on the Korean Society of Agricultural Engineers*, Webinar, Korea (Oct. 2020) - Oral
9. Yooan Kim, Solhee Kim, Seunghyun Han, Kyo Suh, "Analysis on Regional EV Subsidies in Response to Changes in Subsidy Policy Using System Dynamics", *Annual Conference on the Korean Society of Agricultural Engineers*, Webinar, Korea (Oct. 2020) - Oral
10. Seunghyun Han, Solhee Kim, Yooan Kim, Kyo Suh, "Development of township-level population

- model based on population change influencing factors using big data analysis", Annual Conference on the Korean Society of Agricultural Engineers, Webniar, Korea (Oct. 2020) - Oral
11. Solhee Kim, Yooan Kim, Chanwoo Kim, Chanhoo Jung, Kyo Suh, "Environmental Benefits of Alternative Distribution System for Agricultural Products based on Regional Traffic Network", International conference on International Society for Industry Ecology, Beijing, China (Jul. 2019) - Poster
 12. Chanwoo Kim, Solhee Kim, Yooan Kim, Chanhoo Jung, Kyo Suh, "Environmental Benefits of Environmental Trade with Beter Choices", International conference on International Society for Industry Ecology, Beijing, China (Jul. 2019) - Poster
 13. Chanwoo Kim, Yooan Kim, Solhee Kim, Kyo Suh, "County-level Supply Chain Analysis for Environmental Implications of US Corn Export", American Geophysical Union 2019, San Francisco, United States (Dec. 2019) - Poster
 14. Yooan Kim, Solhee Kim, Chanwoo Kim, Kyo Suh, "Potential Environmental Implication of Febate Disemination Policies for Electric Vehicle", American Geophysical Union 2019, San Francisco, United States (Dec. 2019) - Poster
 15. Solhee Kim, Yooan Kim, Paul Shin, Chanwoo Kim, Chanhoo Jung, Kyo Suh, "Evaluation of Supply Chain Flows by Distributive Actors for Developing a Smart Logistics of Agricultural Products", The International Conference on Circular Economy for Agri-Food Resource Management, Seoul, Korea (Jun. 2018) - Poster
 16. Solhee Kim, Chanhoo Jung, Chanwoo Kim, Paul Shin, Yooan Kim, Kyo Suh, "Empirical Analysis of National Power Portfolio for Positive Environmental Implications of Electric Vehicles", International Conference on Resource Sustainabilty, Beijing, China (Jun. 2018) - Oral
 17. Chanhoo Jung, Chanwoo Kim, Yooan Kim, Solhee Kim, Kyo Suh, "Analysis of Emergy-based Environmental Carying Capacity for Sustainable Development Strategies of Islands", International Conference on Resource Sustainabilty, Beijing, China (Jun. 2018) - Oral
 18. Chanwoo Kim, Chanhoo Jung, Paul Shin, Yooan Kim, Kyo Suh, "Evaluation for Sustainability of Limited Land Resources in Jeju Island using Ecological Footprint Model", International Conference on Resource Sustainabilty, Beijing, China (Jun. 2019) - Oral
 19. Yooan Kim, Solhee Kim, Chanhoo Jung, Chanwoo Kim, Kyo Suh, "A Comparative Analysis of the Effect of Environmental Improvement on Drone-based Delivery System in Urban and Rural Areas", International Conference on Resource Sustainabilty, Beijing, China (Jun. 2019) - Oral
 20. Solhee Kim, Chanhoo Jung, Chanwoo Kim, Paul Shin, Yooan Kim, Kyo Suh, "Estimating the Confidence Interval of Environmental Certificate Systems for Agricultural Products using Farm Product Data", American Society of Agricultural and Biological Engineers, Detroit, United States (Jul. 2018) - Oral
 21. Chanwoo Kim, Solhee Kim, Chanhoo Jung, Paul Shin, Yooan Kim, Kyo Suh, "Life Cycle Environmental Implications of Food Miles for Major Imported Agricultural Products", American Society of Agricultural and Biological Engineers, Detroit, United States (Jul. 2018) - Oral
 22. Solhee Kim, Yooan Kim, Chanwoo Kim, Chanhoo Jung, Kyo Suh, "Environmental Implications of Agricultural Prodcuts Distribution based on Regional Traffic Network", International Conference on Energy and Sustainabilty, Seoul, Korea (Oct. 2018) - Oral

AWARDS AND HONORS

- Honorable Mention Prize, KDI School of Public Policy and Management, Korea (Sep. 2022)
- Best Presentation Award, International Conference on Energy, Aquatech and Sustainability 2021, Korea (Aug. 2021)
- Superior Paper Presentation Award, Korean Society of Rural Planning, Korea (Apr. 2019)
- Lecture & Research Scholarship, Seoul National University, Korea (Mar. 2023)
- Lecture & Research Scholarship, Seoul National University, Korea (Aug. 2022)

- Lecture & Research Scholarship, Seoul National University, Korea (Feb. 2022)
- Merit-based scholarship, Seoul National University, Korea (Feb. 2021)
- Lecture & Research Scholarship, Seoul National University, Korea (Feb. 2020)
- Lecture & Research Scholarship, Seoul National University, Korea (Aug. 2019)
- Lecture & Research Scholarship, Seoul National University, Korea (Feb. 2019)
- Merit-based scholarship, Seoul National University, Korea (Aug. 2018)
- Lecture & Research Scholarship, Seoul National University, Korea (Mar. 2018)
- Honor Roll, Jeonbuk National University, Korea (Sep. 2015)
- Honor Roll, Jeonbuk National University, Korea (Mar. 2015)

SKILLS AND TECHNIQUES

Statistic Analysis: Python, R and SPSS

Analysis Program: Stella Architect, GaBi, Vensim, NetMiner, Textom

Geographic Information System (GIS): ArcGIS

Computer-proficient in Microsoft Office: Word, Excel, PowerPoint, and Access

Graphic Design: Photoshop