

## Dr. Yeong Jae Kim

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CONTACT INFORMATION  
KDI School of Public Policy and Management  
263 Namsejong-Ro  
Sejong-Si, 30149  
Republic of Korea  
Office: 318  
Phone: 82-44-550-1192  
*E-mail:* [kyj@kdischool.ac.kr](mailto:kyj@kdischool.ac.kr)  
*Website:* <http://www.kimyj.com>  
Last updated: March 2025

PROFESSIONAL EXPERIENCE

Associate Professor <b>KDI School of Public Policy and Management</b>	01/2023 - Present
Director <b>Sustainable Development Lab @ KDI School</b>	01/2023 - Present
Affiliated Scientist <b>RFF-CMCC European Institute on Economics and the Environment (EIEE)</b>	08/2022 - Present
Adjunct Professor <b>School of Management Engineering, KAIST</b>	08/2023 - 08/2024
Assistant Professor <b>KDI School of Public Policy and Management</b>	08/2022 - 12/2022
Junior Scientist <b>RFF-CMCC European Institute on Economics and the Environment (EIEE)</b> A research institute co-founded by <b>Resources for the Future (RFF)</b> and the <b>CMCC Foundation – Euro-Mediterranean Center on Climate Change (CMCC)</b>	2019 - 2022
Visiting Professor <b>School of Management Engineering, KAIST</b>	2021
Senior Research Associate (Postdoc) <b>Tyndall Centre for Climate Change Research (HQ)</b>	2017- 2019
Research Assistant <b>Samsung Economic Research Institute, Seoul, South Korea</b>	2009
Analyst <b>American International Group, Inc., Seoul, South Korea</b>	2007- 2009
Analyst <b>Hyundai Motor Company, Headquarter, Seoul, South Korea</b>	2007

## EDUCATION

Ph.D., Georgia Institute of Technology, Public Policy (Environmental Economics) (Dr. Marilyn Brown, Kaye Husbands Fealing, Erik Johnson, and Pat McCarthy)	05/2017
M.S., Texas A&M University, Agricultural Economics	08/2011
B.S., Hanyang University, Seoul, South Korea, Mechanical Engineering	02/2007
Exchange Student, University of Texas at Austin, Mechanical Engineering	08/2005-08/2006

RESEARCH  
INTERESTS

Environmental and Energy Economics, Economics of Innovation, Applied Microeconometrics,  
and Program Evaluation

PEER REVIEWED  
ARTICLES

- [1] Sanni, M., & Kim, Y. J. (2024). How open are African inventors? Open green technologies and patenting activities in Africa. *African Journal of Science, Technology, Innovation and Development*. <https://doi.org/10.1080/20421338.2023.2287001>
- [2] Kim, Y. J., & Cho, S.-H. (2023). Is the discovery of oil a blessing or curse in the era of climate change? *Resources Policy* <https://doi.org/10.1016/j.resourpol.2023.104264>
- [3] Herman, K. S., Kim, Y. J., Shayegh, S., & Xiang, J. (2023). A Critical Review of Green Growth Indicators in G7 Economies from 1990 to 2019 *Sustainability Science* <https://doi.org/10.1007/s11625-023-01397-y>
- [4] Kim, Y. J., & Verdolini, E. (2023). International knowledge spillovers in energy technologies *Energy Strategy Reviews*, 49, 101151. <https://doi.org/10.1016/j.esr.2023.101151>
- [5] Hyun, M., Cherp, A., Jewell, J., Kim, Y. J., & Eom, J. (2023). Feasibility trade-offs in decarbonising the power sector with high coal dependence: The case of Korea. *Renewable and Sustainable Energy Transition*, 100050. <https://doi.org/10.1016/j.rset.2023.100050>
- [6] Choi, D., & Kim, Y. J. (2023). Local and global experience curves for lumpy and granular energy technologies. *Energy Policy*, 174, 113426. <https://doi.org/10.1016/j.enpol.2023.113426>
- [7] Kim, Y. J., Soh, M., & Cho, S.-H. (2022). Identifying optimal financial budget distributions for the low-carbon energy transition between emerging and developed countries. *Applied Energy*, 326, 119967. <https://doi.org/10.1016/j.apenergy.2022.119967>
- [8] Kim, Y. J. (2022). The countervailing effects of stocks of knowledge on low-carbon innovation through international collaboration. *Energy Policy*, 170, 113217. <https://doi.org/10.1016/j.enpol.2022.113217>
- [9] Kim, Y. J., Cho, S.-H., & Sharma, B. P. (2021). Constructing efficient portfolios of low-carbon technologies. *Renewable and Sustainable Energy Reviews*, 150, 111515. <https://doi.org/10.1016/j.rser.2021.111515>
- [10] Hyun, M., Kim, Y. J., & Eom, J. (2020). Assessing the impact of a demand-resource bidding market on an electricity generation portfolio and the environment. *Energy Policy*, 147, 111918. <https://doi.org/https://doi.org/10.1016/j.enpol.2020.111918>
- [11] Kim, Y. J., & Wilson, C. (2019). Analysing Energy Innovation Portfolios from a Systemic Perspective. *Energy Policy*, 134 (2019) 110942. <https://doi.org/10.1016/J.ENPOL.2019.110942>
- [12] Kim, Y. J., & Wilson, C. (2019). Analysing Future Change in the EU's Energy Innovation System. *Energy Strategy Reviews*, 24C (2019) pp. 279-299. <https://doi.org/10.1016/j.esr.2019.04.012>
- [13] Kim, Y. J., & Brown, M. A. (2019). The impact of domestic energy-efficiency policies on foreign innovation: the case of lighting technologies. *Energy Policy*, 128, 539-552. <https://doi.org/10.1016/j.enpol.2019.01.032>

- [14] Kim, Y. J., Husbands Fealing, K., & Klochikhin, E. (2018). Patenting activity in the food safety sector. *World Patent Information*, 55, 27-36.  
<https://doi.org/10.1016/J.WPI.2018.08.005>
- [15] Brown, M. A., Baer, P., Cox, M., & Kim, Y. J. (2014). Evaluating the risks of alternative energy policies: a case study of industrial energy efficiency. *Energy Efficiency*, 7(1), 1-22.  
<https://doi.org/10.1007/s12053-013-9196-8>

BOOK CHAPTERS  
AND REPORTS

- [1] Verdolini, E., Reis, L. A., Drouet, L., Tavoni, M., Kim, Y. J., Bonacorsi, L., ... Edenhofer, O. (2021). The international dimension of the EU low-carbon transition.
- [2] Karakosta, C., Papapostolou, K., Granado, P. C. del, Egging, R., Welisch, M., Hartner, M., ... Johansen, U. (2019). Navigating the roadmap for clean, secure and efficient energy innovation: Final report on SET-Nav policy briefs
- [3] Granado, P. C. del, Welisch, M., Hartner, M., Resch, G., Lumbreras, S., Olmos, L., ... Ansari, D. (2019). Summary Report "SET-Nav-Integrative policy recommendations" Decarbonization the EU's Energy System
- [4] Global Innovation Index 2018 Report published by Cornell University, INSEAD, and the World Intellectual Property Organization: Technology-Specific Analysis of Energy Innovation Systems (with Charlie Wilson)
- [5] Kaye Husbands Fealing, Stanley Johnson, John L. King, and Julia Lane, *New Pathways to Research Impact: Case of Food Safety*, Cambridge University Press. Chap 9: patenting across businesses (with Evgeny Klochikhin and Kaye Husbands Fealing)

UNDER REVIEW

- The air quality effects of Uber** (with Luis Sarmiento) (R&R Journal of Urban Economics)
- The Impact of Twin Transition on Firm's Business Performance: Empirical Evidence from Korean Manufacturing Firms (with Jihoon Choi) (R&R Energy Economics)
- Woo, David and Kim, Yeong Jae, Data-driven Insights into South Korea's National Utilization of the EV Charging Infrastructure** (R&R Environmental Research: Infrastructure and Sustainability)
- Tradeoffs between the cost and speed of electric vehicle charging in Korea (with David Woo & Changkeun Lee)**
- Leaving Someone Behind: Coal Phase-Out in South Korea (with Jinseong Park, Changkeun Lee, Sehoon Kim & Sun Joo Park)**
- Energy Transitions Post–Russia–Ukraine War: Challenges and Policy Implications in Germany and Italy (with Seong-Hoon Cho and Kyeonggi Min)

WORK IN  
PROGRESS

- The Staggering Adoption of Price Increases on Electric Vehicle Charging Infrastructure (with David Woo)
- A field experiment on electric vehicle charge timing in South Korea (with David Woo and Seongho Park)
- How does electric vehicle charging infrastructure accelerate the adoption of electric vehicles in South Korea? (with David Woo)
- Endogenous R&D on clean energy technologies in WITCH model (with Elena Verdolini & Lara Aleluia Reis)

Carbon dioxide emissions embodied in international trade (with Elena Verdolini and Laura Bonacorsi)

The Effects of Water Pricing on Domestic Water Demand in Dhaka, Bangladesh (with Md Mujahidur Rahman)

TEACHING  
INTERESTS

**Microeconomics, Energy Economics, Energy Policy, Environmental Economics, Environmental Policy, and Econometric Policy Evaluation**

TEACHING  
EXPERIENCE

**KDI School of Public Policy and Management, Sejong, South Korea**

- K-Water capstone project 2024-2025
- Seminar on Global Policies 2024-2025
- Climate Change Economics and Policy 2024-2025
- Environmental Economics and Policy 2024-2025
- Global Energy Policy 2023-2025
- Environmental and Climate Change Policy 06/2023
- Technological Change and the Environment 2024-2025
- Environmental and Climate Change Policy 09/2022

**College of Business, KAIST, Seoul, South Korea**

- Studies on Green Growth Strategies 03/2024
- Energy Industry and R&D 09/2023
- STAT Prep 08/2022
- STAT Prep/Environmental and Energy Data Analysis 08/2020

**Georgia Institute of Technology, Atlanta, GA**

- Math and Stat Summer Prep 08/2016

*Teaching Assistant*

- PUBP8211: Microeconomics for Public Policy (Dr. Matej Drev) 01/2014-05/2014
- ECON8007: Microeconomics for Public Policy (Dr. Omer Baris) 01/2013-05/2013
- PUBP6116: Microeconomics Policy Analysis (Instructor: Jian Wang) 08/2012-12/2012
- PUBP8211: Microeconomics Theory (Dr. Doug Noonan) 01/2012-05/2012
- POL1101: Government of the U.S. (Dr. Julia Melkers) 08/2011-12/2011

**Texas A&M University, College Station, TX**

*Teaching Assistant*

- AGEC440: Agribusiness Strategic Analysis (Dr. Desmond Ng) 09/2010-12/2010
- AGEC314: Marketing Agricultural Products (Dr. S. Dharmasena) 06/2010-08/2010
- AGEC603: Land Economics (Dr. David Newburn) 01/2010-05/2010

FELLOWSHIPS,  
SCHOLARSHIPS,  
AND AWARDS

- Precourt Fellowship, Stanford Precourt Energy Efficiency Center 2016
- Anne Robinson Clough International Student Fund 2016
- Best Poster Award, Atlanta Conference on Science and Innovation Policy 2015
- National Science Foundation Travel Award (AWARD No. CBET-1539816) 2015
- Sam Nunn Security Program Fellowship, MacArthur Foundation 2014-2015
- Scholarship, Southeast Energy Efficiency Alliance Annual Conference 2014
- Scholarship, Southern Section of Air & Waste Management Association 2012
- National Scholarship in Energy, Ministry of Knowledge and Economy 2009-2011
- Departmental Scholarship, Texas A&M University 2009-2010
- Hanyang University Study Abroad Scholarship 2009

ACADEMIC  
PRESENTATIONS

- 2025
  - EAERE 2025 Annual Conference, Bergen, Norway (Scheduled)
  - 46th IAEE International Conference Paris 2025, France (Scheduled)
  - Seoul Workshop in Empirical Finance, Korea (Scheduled)
  - Electric Vehicle Conference 2025, Stuttgart, Germany (Scheduled)
  - Korea Environmental Policy and Administration Society, Korea
  - Korea Environment Institute, Korea
  
- 2024
  - Kyoto University, Kyoto, Japan
  - Eco-innovation Society - 2nd bi-annual Workshop, Paris, France
  - Yonsei University, Graduate School of International Studies, Seoul
  - The Max Planck Institute for Innovation and Competition, Munich, Germany (Accepted)
  - Integrated Assessment Modeling Consortium (IAMC) 2024, Seoul, Korea
  - European Association of Environmental and Resource Economists (EAERE) 2024, Leuven, Belgium
  - 42th International Energy Workshop (IEW), Bonn, Germany
  - Korea Energy Modeling Forum (K-EMF), Korea
  - Korea Environmental Economics Conference, Korea
  - Korea Environment Institute, Korea
  - Sookmyung Women's University, Korea
  
- 2023
  - 40th USAEE/IAEE North American Conference, Chicago, United States
  - 2023 Korea-US Policy Dialogue: Towards Carbon Neutrality, Seoul, Korea (Chair)
  - 17th International Conference on Energy Economics and Technology (ENERDAY), Dresden, Germany
  - Kiel Institute Workshop on the role of public research and innovation measures on mitigating climate change, Germany (Invited)
  - Korea Environmental Economics Conference, Korea
  - Graduate-Development Economics Seminar Series, National Graduate Institute for Policy Studies (GRIPS), Japan (Invited)
  
- 2022
  - IPCC 6th Assessment Report Workshop by Korea Environment Institute (Invited)
  - Energy Industrial R&D Policy by KAIST (Invited)
  - KDI School-World Bank DIME Conference on Impact Evaluation in Sustainable and Inclusive Development
  - European Climate and Energy Modelling Platform (ECEMP) 2022
  - Korea Environment Institute (Invited)
  - Empirical Methods in Environmental Economics Research by Sookmyung Women's University (invited)
  - GDLN Blended learning program: Climate Change Mitigation by KDIS and BLS (invited)
  - European Association of Environmental and Resource Economists (EAERE) 2022 (by co-author)
  - 40th International Energy Workshop (IEW), Freiburg, Germany
  - Berlin School of Economics (BSE) workshop on the Effectiveness and Distributional Impacts of Environmental Policy (by co-author)
  - Sustainability and Development Conference 2022 (University of Michigan)
  
- 2021
  - 2021 Annual SEEDS (Sustainability, Environmental Economics and Dynamics Studies) Workshop
  - 13th Korea Energy Modelling Forum (K-EMF)

26th Annual Conference of the European Association of Environmental and Resource Economists  
 Spatial Data Science Laboratory, University of Seoul (Invited)  
 IEA Workshop on R&D Data Collection and Mission Innovation Ministerial Side Event on  
 Increasing the Efficiency of R&D Policies through Data and Analyses (Invited)  
 Mission Innovation Tracking Progress Workshop: Tracking Clean Energy Innovation Per-  
 formance through Patent Indicators (Invited)  
 Laboratory for Sustainable Economy and Policy, Graduate School of Environmental Stud-  
 ies, Seoul National University (Invited)  
 9th Annual Conference of the Italian Association of Environmental and Resource Economists,  
 Italy  
 IRENA Invitation to the closed-door expert workshop, Tracking Innovation Impacts (Ex-  
 ploring the impacts of innovation on offshore wind) (Invited)  
 Korea Energy Society, Seoul, South Korea (Invited)  
 Green Technology Center (GTC), Seoul, South Korea (Invited)  
 Graduate School of Science and Technology Policy, KAIST, Daejeon, South Korea (Invited)  
 KAIST College of Business, KAIST, Seoul, South Korea (Invited)

- 2020

Thirteenth Integrated Assessment Modeling Consortium (IAMC) Annual Meeting 2020  
 CLOSED-DOOR EXPERT WORKSHOP Tracking Energy Innovation Impacts Framework  
 (TEIIF), IRENA (Invited)  
 Korea Energy Economics Institute (KEEI), Ulsan, South Korea (Invited)  
 Yonsei University, Seoul, South Korea (Invited)  
 Korea Institute of Energy Technology Evaluation and Planning (KETEP), Seoul, South Ko-  
 rea (Invited)  
 4th Korea Energy Modelling Forum (K-EMF)  
 25th Annual Conference of the European Association of Environmental and Resource Economists  
 Graduate School of Technology & Innovation Management, Hanyang University, Seoul,  
 South Korea (Invited)  
 Exploring National and Global Actions to reduce Greenhouse gas Emissions (ENGAGE)  
 project meeting  
 Eighth Annual Conference of the Italian Association of Environmental and Resource Economists,  
 Brescia, Italy

- 2019

Climate and Energy Policy & Strategy Research Group, KAIST College of Business, Seoul,  
 South Korea (Invited)  
 INNOPATHS project meeting, Potsdam Institute for Climate Impact Research (PIK), Pots-  
 dam, Germany  
 Exploring National and Global Actions to reduce Greenhouse gas Emissions (ENGAGE)  
 kick-off meeting, IIASA, Vienna, Austria  
 1st Workshop on Climate Economics, Innovation, and Policy: The Economics of Environ-  
 mental Policy and Innovation, Ottawa, ON Canada (Hosted by Dr. Carolyn Fischer: Canada  
 150 Chair — Climate Economics, Innovation, and Policy)  
 EAERE-FEEM European Summer School in Resource and Environmental Economics: Econo-  
 metric Approaches for Environmental Policy Evaluation, Venice, Italy  
 24th Annual Conference of the European Association of Environmental and Resource Economists  
 (EAERE), Manchester, U.K.  
 SET-NAV Final Conference, Brussels, Belgium

- 2018

IEA Innovation Team Meeting, International Energy Agency, Paris, France  
 Energy Modelling Platform for Europe (EMP-E) 2018, Brussels, Belgium  
 SET-Nav Internal Consortium Meeting, National Technical University of Athens, Athens,

Greece

6th World Congress of Environmental and Resource Economists(WCERE 2018), Gothenburg, Sweden

41st International Association for Energy Economics(IAEE) Conference, Groningen, the Netherlands

Enhancing Data Collection on Government and Private Sector Spending for Clean Energy Research and Innovation(Workshop organised in the context of tracking progress in Mission Innovation), Malmo, Sweden

SET-Nav Internal Consortium Meeting, Comillas Pontifical University, Madrid, Spain

Innovation Indicators to Track Progress of Mission Innovation Workshop, Brussels, Belgium

- 2017

SET-Nav Internal Consortium Meeting, DIW Berlin, Berlin

Tyndall Assembly Day, Newcastle University, UK

International Association for Energy Economics(IAEE) European Conference, Vienna, Austria

23rd Annual Conference of the European Association of Environmental and Resource Economists (EAERE), Athens, Greece

Doctoral seminar IAEE international conference (The Economics of Electricity Market), Groningen, the Netherlands

Colorado Technology Primer for Economists and Social Scientists(Summer School on the Electricity Grid), Golden, CO (Sloan Foundation)

The Centre on Innovation and Energy Demand (CIED) Summer School, University of Sussex, UK

9th Annual Alliance for Research on Corporate Sustainability (ARCS) Research Conference, Rotterdam School of Management (RSM), the Netherlands

SET-Nav Internal Consortium Meeting, ETH Zurich, Swiss

International Forum on Disruptive Low Carbon Innovations, London, UK

- 2016

Association for Public Policy Analysis & Management Research Conference, Washington, DC

Grantham Research Institute on Climate Change and the Environment, London, U.K.

ETH Academy on Sustainability and Technology 2016, ETH Zurich, Swiss

2016 Behavior, Energy and Climate Change (BECC) Conference, Baltimore, MD

Workshops on Original Policy Research (WOPR), Atlanta, GA

Energy Expo Georgia Tech, Atlanta, GA

Energy Chat: Georgia Tech Energy Club, Atlanta, GA

- 2015

Society for Risk Analysis 2015 Annual Meeting, Washington, DC

Association for Public Policy Analysis & Management Research Conference, Miami, FL

Atlanta Conference on Science, Technology and Innovation Policy, Atlanta, GA

International Symposium on Sustainable Systems and Technologies, Dearborn, MI

56th Annual Transportation Research Forum, Atlanta, GA

- -2015

Guest Speaker of the PUBP 6201(Public Policy Analysis: Dr. Marilyn Brown) titled Treatment of Uncertainties with Monte, Atlanta, GA

Air &Waste Management Association (A&WMA) Annual Meeting and Technical Conference, Biloxi, MS

Trudie Dockerty, Thanh Doan, and Rhosanna Jenkins (University of East Anglia, Norwich, U.K.)

Minwoo Hyun (KAIST & University of California - Santa Barbara)

Donghyun Choi (KAIST & Georgia Institute of Technology)

Jintae Kim (KAIST & Seoul National University)

Moonwon Soh (University of Florida)

Daewu Ju (Assistant Professor, Hanyang University)

Kyonggi Min (Ph.D. Student, Georgia Institute of Technology)

Jihoon Choi (Ph.D. Student, George Mason University)

David Woo (KDI School, UC Davis)

Cheyeong Lee (KDI School)

Mujahid Rahman (KDI School)

Sangwoo Han (KDI School)

Muzammil Tariq (KDI School)

MILITARY SERVICE *Military Service, Auxiliary Police Officer, South Korea*

2002-2004

ACADEMIC SERVICES

Guest Editor: PLOS ONE

Reviewer: Renewable & Sustainable Energy Transition; Climatic Change; Energy Economics; The Energy Journal; Environmental Research Letters; Energy Efficiency; Energy Policy; Economics of Innovation and New Technology; Environment, Development and Sustainability; Transportation Research Part D: Transport and Environment; Journal of Cleaner Production; International Journal of Environmental Research and Public Health; Renewable & Sustainable Energy Reviews; Journal of Energy Engineering, Energy Research & Social Science; Progress in Energy; Scientific Reports; Journal of Environmental Management; Environmental Research Communications

AERE Summer Conference Reviewers; AOM Annual Meeting ((ONE) Organizations and the Natural Environment); DRUID Conference; Expert Review of the First and Second Order Draft of the Working Group III (WG III) Contribution to the IPCC Sixth Assessment Report (AR6), ACEEE Summer Study on Energy Efficiency in Buildings; Annual Alliance for Research on Corporate Sustainability (ARCS) Research Conference; Proceedings of ISSST (International Symposium on Sustainable Systems and Technologies); Mandela Washington Fellowship

FUNDING AND GRANTS

KDI School of Public Policy and Management Research Funding (PI)

Brain Pool (Developing an Empirical Model for Electric Vehicle Charging Station Site Selection) by National Research Foundation of Korea (PI)

PROFESSIONAL MEMBERSHIPS

- American Economic Association (AEA)
- The European Association of Environmental and Resource Economists (EAERE)
- Association of Public Policy Analysis and Management (APPAM)
- The International Association for Energy Economics (IAEE)
- Italian Association of Environmental and Resource Economists (IAERE)



REFERENCES  
AVAILABLE TO  
CONTACT

**Dr. Marilyn A. Brown**, Ph.D. Advisor

(e-mail: [Marilyn.Brown@pubpolicy.gatech.edu](mailto:Marilyn.Brown@pubpolicy.gatech.edu))

- Regents' and Brook Byers Professor, Climate and Energy Policy Laboratory, Georgia Institute of Technology
- D.M. Smith Building, 685 Cherry Street, Room 312, Atlanta, GA 30332

**Dr. Elena Verdolini**

(e-mail: [elena.verdolin@eiee.org](mailto:elena.verdolin@eiee.org))

- Senior Scientist & Professor at the Università degli Studi di Brescia, RFF-CMCC European Institute on Economics and the Environment (EIEE),
- Via Bergognone, 34, 20144 Milano (MI), Italy

**Dr. Charlie Wilson**

(e-mail: [charlie.wilson@eci.ox.ac.uk](mailto:charlie.wilson@eci.ox.ac.uk))

- Professor, Professor of Energy and Climate Change at the Environmental Change Institute, School of Geography and the Environment, and Jackson Senior Research Fellow at Oriel College,
- Oxford University Centre for the Environment, University of Oxford, South Parks Road, Oxford, OX1 3QY, United Kingdom