

Dasom Lee

Graduate School of Science and Technology Policy
Korea Advanced Institute of Science and Technology
291 Daehak-ro, Yuseong-gu, Daejeon 34141. Republic of Korea

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ACADEMIC APPOINTMENTS

Korea Advanced Institute of Science and Technology, Republic of Korea
2025-Present. Associate Professor, Graduate School of Science and Technology Policy
2025-Present. Courtesy Appointment, Cho Chun Shik Graduate School of Mobility
2025-Present. Courtesy Appointment, KAIST Institute for Disruptive Robotics
2024-2027. Ewon Assistant Professor
2024-2026. Head of Undergraduate Minor Program, Graduate School of Science and Technology Policy
2022- 2025. Assistant Professor, Graduate School of Science and Technology Policy

Georgia Institute of Technology, United States
2024-Present. Research Affiliate, Carter School of Public Policy

University of Twente, Netherlands
2021- 2022. Assistant Professor (Tenured), Department of Technology, Policy and Society

EDUCATION

Vanderbilt University, United States
2021. Ph.D., Sociology, Minor in Quantitative Methods

Kyoto University, Japan
2014. M.A., Economics

London School of Economics, United Kingdom
2009. B.Sc. Sociology

RESEARCH INTERESTS

Energy & Climate Technology, Environmental Justice, Technology Governance, Quantitative Methods

BOOKS

Nguyen Long, Le Anh and **Dasom Lee***. 2026. *Energy Data: Imagining Future Energy Systems*. London, Springer.

PEER-REVIEWED PUBLICATIONS

* indicates corresponding authorship; __ indicates graduate student co-author

Nguyen, Ho-Minh-Tam, Young-Joo Kwon, Dasom Lee, Tomohiro Tanaka, Sunmin Kim, and Hyungjun Kim. 2026. Observed Amplification of Flood Risk in Pakistan Driven by Changes in Inundation Extent and Human Settlement. *Remote Sensing Applications: Society and Environment*. <https://doi.org/10.1016/j.rsase.2026.102025>

Nguyen Long, Le Anh, **Dasom Lee**, Rak Kim, Frank van Laerhoven, Abigail Nieves Delgado, Damayanti Buchori, and Tony La Viña. 2026. Indigenous Peoples and Renewable Energy: Impacts, Contestations, and Collective Action. *Environmental Research Letters*. <https://doi.org/10.1088/1748-9326/ae5674>

Son, Euibeom, Yookyung Chin, Yena Chae, and Dasom Lee*. 2026. The Right Kind of Energy: Understanding Conservative Support for Clean Energy in South Korea. *Energy Policy*. <https://doi.org/10.1016/j.enpol.2026.115127>

Media Coverage: Energy Economy Newspaper, Korea
<https://www.ekn.kr/web/view.php?key=20260219028220486>

Lee, Dasom and Le Anh Nguyen Long. 2025. Privacy challenges of automated vehicles: Merging contextual integrity and responsible innovation frameworks. *Transportation Research Interdisciplinary Perspectives*. <https://doi.org/10.1016/j.trip.2025.101536>

Lee, Dasom*, Le Anh Nguyen Long, and Moon Choi. 2025. Automated Vehicles' Safety: The Multidimensionality of Disengagement Reports. *Heliyon*.
<https://doi.org/10.1016/j.heliyon.2025.e42747>

Long, Le Anh Nguyen, Sikke R. Jansma, **Dasom Lee**, and Menno de Jong. 2025. Capital Endowments: How Renewable Energy Technologies Are Reshaping the Socio-Cultural Landscape in the Netherlands. *Energy Research & Social Science*.
<https://doi.org/10.1016/j.erss.2024.103903>

Long, Le Anh Nguyen, Sikke R. Jansma, and **Dasom Lee**. 2024. Changing the Game: Situating Energy Citizenship in the Dutch Socio-Technical Landscape. *Journal of Cleaner Production*. <https://doi.org/10.1016/j.jclepro.2024.144258>

Lee, Dasom, Le Anh Nguyen Long, and Sikke R. Jansma. 2024. Data Donation: Using the Gift Relationship Framework to Address Privacy and Environmental Issues of Energy Consumption Data Collection. *Energy Research & Social Science*.
<https://doi.org/10.1016/j.erss.2024.103596>

Lee, Dasom* and David Hess. 2024. Clean Energy Conservatism. *Elgar Encyclopedia of Environmental Sociology*. <https://doi.org/10.4337/9781803921044.ch11>

Lee, Dasom*. 2023. Corporate Networks and Corporate Social Responsibility: Fortune 500 Companies' Performance on the Sustainable Development Goals. *International Journal of Organizational Analysis*. <https://doi.org/10.1108/IJOA-07-2022-3355>

Jansma, Sikke, Le Anh Nguyen Long, **Dasom Lee***. 2023. Understanding Energy Citizenship: How Cultural Capital Shapes the Energy Transition. *Energies*.
<https://doi.org/10.3390/en16052106>

Lee, Dasom, David Hess, and Michiel Heldeweg. 2022. Safety and Privacy Regulations for Unmanned Aerial Vehicles: A Multiple Comparative Analysis. *Technology in Society*.
<https://doi.org/10.1016/j.techsoc.2022.102079>

Lee, Dasom* and David Hess. 2022. Measuring Corporate Social Responsibility: An Evaluation of a New Sustainable Development Goals Index for Fortune 500 Companies. *International Journal of Organizational Analysis*. <https://doi.org/10.1108/IJOA-12-2021-3082>

Lee, Dasom and David Hess. 2022. Public Concerns and Connected and Automated Vehicles: Safety, Privacy, and Data Security. *Humanities and Social Sciences Communications*.
<https://doi.org/10.1057/s41599-022-01110-x>

Sovacool, Benjamin, David Hess, Roberto Cantoni, **Dasom Lee**, Marie Clair Brisbois, Hans Jakob Walnum, Ragnhild Freng Dale, Bente Johnsen Rygg, Marius Korsnes, and Anandaiit Goswami. 2022. Conflicted Transitions: Actors, Tactics, and Outcomes of Energy Infrastructure Opposition and Community Mobilization in Carbon-Intensive Regions. *Global Environmental Change*. <https://doi.org/10.1016/j.gloenvcha.2022.102473>
Media Coverage: Yale Environment Review <https://bit.ly/3Ea1F0A>

Hess, David, **Dasom Lee**, Bianca Biebl, Martin Franzle, Sebastiaan Lehnhoff, Jurgen Niehaus, Alexander Pretschner, and Janos Szipanovits. 2021. A Sociotechnical Design Perspective on Responsible Research and Innovation: Perspectives for Problem Finding for Research on Digitized Energy and Automated Vehicles. *Journal of Responsible Innovation*. <https://doi.org/10.1080/23299460.2021.1975377>

Neema, Himanshu, Scott Phillips, **Dasom Lee**, David J. Hess, Zachariah Threet, Thomas Roth, and Cuong Nguyen. 2021. Transactive Energy and Solarization: Assessing the Potential for Demand Curve Management and Cost Savings. *ACM Proceedings of the Workshop on Design Automation for CPS and IoT*.
<https://doi.org/10.1145/3445034.3460510>

Lee, Dasom and David Hess. 2021. Data Privacy and Residential Smart Meters: Comparative Analysis and Harmonization Potential. *Utilities Policy* 70.
<https://doi.org/10.1016/j.jup.2021.101188>

Lee, Dasom*. 2021. Corporate Social Responsibility and Sustainable Development Goal 9. In: Leal Filho W., Azul A.M., Brandli L., Lange Salvia A., Wall T. (eds) *Industry, Innovation and Infrastructure. Encyclopedia of the UN Sustainable Development Goals*. Springer. https://doi.org/10.1007/978-3-319-71059-4_135-1

Lee, Dasom and David Hess. 2020. Regulations for On-Road Testing of Connected and Automated Vehicles: Assessing the Potential for Global Safety Harmonization. *Transportation Research Part A: Policy and Practice* 136:85-98.
<https://doi.org/10.1016/j.tra.2020.03.026>

Hess, David and **Dasom Lee**. 2020. Energy Decentralization in California and New York: Value Conflicts in the Politics of Shared Solar and Community Choice. *Renewable and Sustainable Energy Reviews* 121. <https://doi.org/10.1016/j.rser.2020.109716>

Neema, Himanshu, Janos Sztipanovits, David J. Hess, and **Dasom Lee**. 2020. TE-SAT: Transactive Energy Simulation and Analysis Toolsuite. *IEEE Workshop on Design Automation for CPS and IoT*. <https://ieeexplore.ieee.org/document/9140486>

Lee, Dasom and David Hess. 2019. Incumbent Resistance and the Solar Transition: Changing Opportunity Structures and Framing Strategies. *Environmental Innovation and Societal Transitions* 33:183-195. <https://doi.org/10.1016/j.eist.2019.05.005>

EDITOR
REVIEWED
PUBLICATIONS

Lee, Dasom. 2025. Meeting the Energy Challenge Posed by Data Centers is Central to a Green Future. *Nature* 639, S33. <https://www.nature.com/articles/d41586-025-00747-3>

Woo, Seokkyun and **Dasom Lee**. 2024. South Korea Can Boost the Research Potential of Low-Income Countries. *Nature Index*. <https://doi.org/10.1038/d41586-024-03564-2>

Lee, Dasom, David Hess, Himanshu Neema. 2020. The Challenges of Implementing Transactive Energy: A Comparative Analysis of Experimental Projects. *The Electricity Journal* 33(10). <https://doi.org/10.1016/j.tej.2020.106865>.

OTHER
PUBLICATIONS

Policy Report. Choi, Moon, Araba Sey, Loly Gaitan, Dasom Lee, and Javiera Macaya. 2025. *EQUALS Research Report 2025 – Advancing Gender Empowerment in the Digital Age: Launch & The Path Forward*. Collaborated with the United Nations International Telecommunication Union (ITU), UN Women, GSMA. Report Launched at the World Summit on the Information Society (WSIS), July 2025, Geneva. <https://www.equalstitech.org/post/evidence-to-impact-advancing-gender-empowerment-in-the-digital-age>

Policy Report. Data Centers in the US. *Korea Atomic Energy Research Institute (KAERI)*. 2025. Nuclear Policy Brief Report. <https://www.kaeri.re.kr/board?menuId=MENU00928&siteId=null>

Policy Report. Digitalizing Korea: The Role of the Private Sector in Technology Standards. 2024. *Carnegie Endowment for International Peace*. <https://carnegieendowment.org/2024/02/28/role-of-south-korea-s-private-sector-in-setting-technology-standards-pub-91831>

Book Review. Extracting Accountability: Engineers and Corporate Social Responsibility by Jessica M. Smith. 2023. *Contemporary Sociology*. <https://doi.org/10.1177/00943061221142074gg>.

Project Deliverable. Aukes, Ewert, Frans Coenen, Victoria Daskalova, Cihan Gercek, Florian Lukas Helfrich, **Dasom Lee**, Goos Lier, Lisa Sanderink, Juliane Marie Schillinger, Athanasios Votsis, Joey Willemse. 2022. *Conditions for Socio-Economic Development and Citizen Engagement in Energy Islands*. University of Aalborg. Commissioned by the European Commission. <https://research.utwente.nl/en/publications/conditions-for-socio-economic-development-and-citizen-engagement->

Project Deliverable. Schillinger, Juliane, Frans H.J.M. Coenen, Ewert Aukes, Victoria Daskalova, Cihan Cercek, Florian Lukas Helfrich, **Dasom Lee**, Goos Lier, Lisa Sanderink, Athanasios Votsis, Joey Willemse. 2022. *Obstacles that Currently Hinder the Development and Operation of Local Integrated Energy Systems*. University of Aalborg. Commissioned by the European Commission. <https://research.utwente.nl/en/publications/obstacles-that-currently-hinder-the-development-and-operation-of->

Book/Policy Report. Kim, Minjung, Susan Kim, Jaewon Kim, Hyeonsoon Kim, Haemin Kim, Eunhyun Mun, Yunho Bae, Misoon Baek, Byungon Shin, Hyewoo Yang, **Dasom Lee**, Byungryul Lee, Seokjoon Lee, Seoyeon Jang. 2008. *외국인 보호 및 교정 시설 방문조사 결과보고서 [A Survey on Undocumented Migrants in Detention Facilities in Korea]*, National Human Rights Commission of Korea. ISBN: 978-89-6114-043-0 93330. Authorship in alphabetical order.

RESEARCH
PROJECTS

Principal Investigator
PI: 2026-2029. The Politics of Data Snatching in Automated Vehicles and Alternative Data Collection Models. National Research Foundation of Korea (NRF) Grant for Early-career Researchers (신진연구일반), National Research Foundation of Korea (KRW 74,100,000).

PI: 2026. Cybersecurity Research Center (사이버안보연구소), KAIST (KRW 66,000,000).

PI: 2026. KAIST Department Led International Study Tour Program (학과주도 해외 Study Tour 프로그램), KAIST (KRW 5,000,000)

PI: 2025. KAIST-US Joint Research Collaboration Open Track Project for Early-Career Researchers (신진연구자 대상 미국 국제공동연구 오픈트랙 사업), KAIST (KRW 20,000,000)

PI: 2024-2027. EWon Assistant Professorship (이원조교수), KAIST (KRW 36,000,000)

PI: 2023. AI Course Development Fund (AI 교과목 개발 지원). KAIST (KRW 10,000,000)

PI: 2022-2023. Korea's Opportunities and Challenges in Private Sector Led Standard Setting, Carnegie Endowment for International Peace. (USD 5,000)

PI: 2022-2025. AI Regulations and Societal Challenges. KAIST New Faculty Research Grant (KRW 50,000,000)

Co-PI: 2022-2023. Energy Citizenship for Resilient Energy Systems. Funded by the Department of Technology, Human and Institutional Behavior, University of Twente (EUR 20,000)

PI: 2022-2023. Understanding the Importance of ELSA in New and Emerging Technologies: Developing Theoretical and Methodological Frameworks for Human Centered Connected and Automated Vehicles. Behavioral Data Science Incubator, University of Twente (collaboration grant)

Co-PI: 2022-2023. Towards a Common Research Agenda on the Socio-Technical Aspects of Net-Zero, Sustainable Data Centers. University of Twente and Vrije University Amsterdam (EUR 35,000)

Non-Principal Investigator

Co-I: 2026. Can AI Save the Planet?: Optimizing Carbon Footprints by Improving Digital Service' Environmental Impacts. C2, KAIST, PI: Professor Hana Kim (KRW 20,000,000).

Co-I: 2025-2026. [Mobility 100] Development of Sustainable Mobility Innovation Technologies and Policies in a Super-Aged Society. KAIST [카이스트 대규모 융합연구소 사업], PI: Professor Moon Choi (KRW 400,000,000).

Co-I: 2024-2030. The Great Acceleration in the Anthropocene. Global Collaborative Center Program. National Research Foundation, PI: Professor Buhm Soon Park (KRW 700,000,000 per year).

Co-I: 2024-5. Complementary Relationship Between Nuclear Energy and RE100, National Research Foundation, PI: Professor So Young Kim (KRW 50,000,000).

Co-I: 2024. Center for Leading Innovations in NuClear (차세대 원자력 정책센터). Korea Atomic Energy Research Institute, National Research Foundation, PI: Professor So Young Kim (KRW 150,000,000 per year).

Co-I: 2024. Smart City Test-bed Establishment and Display for Securing Social Acceptance of Infra-Centric Autonomous System. KI Meta-Convergence Research Program, KAIST [카이스트 KI 메타융합사업], PI: Professor Heejin Ahn (KRW 110,000,000).

Co-I: 2024. Signature Project, Multi Discipline: Policy Mainstreaming: A Collaboration Initiative between KAIST STP and Georgia Tech School of Public Policy, College of Liberal Arts and Convergence Science, KAIST, PI: Professor Moon Choi (KRW 10,000,000).

Co-I: 2024. International Collaboration Grant (국제협력사업): United Nations EQUALS Research Coalition, College of Liberal Arts and Convergence Science, KAIST, PI: Professor Moon Choi (KRW 6,500,000).

Co-I: 2023-2024. Seed Funding. Pathways to Sustainability: Co-creating Pathways to Indigenous People's Energy Futures. Utrecht University, Netherlands, PI: Professors Frank van Laerhoven and Le Anh Long (EUR 10,000).

Co-I: 2023. College Innovation Grant (단대혁신사업): EQUALS Research Coalition. Partners: ITU, UN Women, GSMA, Georgia Institute of Technology, PI: Professor Moon Choi (KRW 20,000,000).

Co-I: 2023-2024. KAIST-NYU Digital Governance, KAIST, PI: Professor Kyung Ryul Park (KRW 50,000,000).

Co-I: 2023-2025. Center for Anthropocene Studies, National Research Foundation of Korea CRC Grant, PI: Professor Buhm Soon Park (KRW 2,000,000,000 per year).

Co-I: 2022-2023. Policy Research on Safety and Quality of Life of Older Drivers Based on Big Data Analytics, National Research Foundation of Korea (한국연구재단), Professor Moon Choi, (KRW 400,000,000 per year) *Joined in 2022

Co-I: 2021-2025. Building a Low-Carbon, Climate Resilient Future: Secure, Clean and Efficient Energy. Horizon 2020, European Commission (EUR 5,000,000).

Co-I: 2021-2025. Sustainable Energy System for Achieving Novel Carbon Neutral Energy Communities. Horizon 2020, European Commission (EUR 5,000,000).

Graduate Research Assistant: 2018-2021. Science of Design for Societal-Scale Cyber-Physical Systems. Graduate Student, and later as a collaborator. Funded by the National Science Foundation.

Graduate Research Assistant: 2018. Exploration in Diversifying Engineering Faculty Initiative (EDEFI). Quantitative Methods Research Assistant. Funded by the National Science Foundation.

Graduate Research Assistant: 2016-2018. Partnership, Unity, and Inter-Corporate Networks: Political Donations of the Corporate Elite, 1980-2014. Funded by the Russell Sage Foundation.

- INVITED PRESENTATIONS
2026. 2. 10. *Keynote Speaker*. Responsible Innovation for Automated Vehicles: Safety and Privacy. International Workshop on ELSI/RRI for Autonomous Driving. Keio University, Yokohama, Japan.
2025. 12. 15. Social Challenges of the Cyber-Physical Systems Transition and Future-Oriented Policy Strategies. Graduate Program in Innovation. Yonsei University. Republic of Korea.
2025. 9. 9. The Right Kind of Energy: Understanding Conservative Support for Clean Energy. Georgia Institute of Technology, Jimmy and Rosalynn Carter School of Public Policy, United States.
2025. 04. 15. Clean Energy Conservatism: Political Affiliation and Attitudes Towards Nuclear and Renewable Energy. Division of Environmental Science and Engineering, POSTECH. Republic of Korea.
2025. 02. 11. Multi-level Contextual Integrity and Responsible Innovation: Embedding Social Goals into Privacy of Automated Vehicles. Harvard Science and Technology in Asia Online Seminar Series. Harvard University, United States.
2024. Comparative Analysis of AI Regulations and Policy Harmonization. AI Governance for Public Good. United Nations Trade & Development (UNCTAD), Switzerland.
2024. Responsible Innovation and AI: The Case of Automated Vehicles. Embassy of Denmark in Republic of Korea.
2024. Regulating AI for Cybersecurity. Securing South Korean-U.S. Scientific Technological Innovation and Cooperation. University of Tennessee, Knoxville, Center for National Security and Foreign Affairs.
2024. Environmental and Social Benefits and Challenges of AI. Seoul National University, Artificial Intelligence ELSI Center, Republic of Korea.
2024. AI and the Environment: Citizen's Roles in Climate Change Mitigation. Trust4Digital Empowerment: Bridging the Gap Between Science and Communities. Swiss-Korean Innovation Week. Embassy of Switzerland in the Republic of Korea, Korean Ministry of Science and ICT, National Research Foundation of Korea.
2024. Data Centers' Environmental Challenges: A Comparative Review Analysis and Potential for Policy Harmonization. Sociomaterial Transformations in Norway and East Asia (SoMaT), Norwegian University of Science and Technology, Norway.
2024. The Role of South Korea's Private Sector in Setting Technology Standards. A Report Card for Korean Digital Leadership. Carnegie Endowment for International Peace, US. https://www.youtube.com/watch?v=EvNjt2eu2U0&ab_channel=CarnegieEndowment
2023. Finding the Keyword for AI and Gender. Discussant. Korean Institute for Gender Equality Promotion and Education (한국양성평등교육진흥원), Republic of Korea.

2023. Energy Policy in the Digital Era. National information Society Agency (한국지능정보사회진흥원), Republic of Korea and United Nations Development Programme.

2023. Societal Aspects of Cyber-Physical Systems. Workshop on Science of Design for Societal-Scale Cyber-Physical Systems. National Science Foundation Partnerships for international Science and Engineering (PIRE) Program. Technical University of Munich, Germany.

2023. Embedding Artificial Intelligence and Sustainability in University Education. Korean Council on Social Welfare Education (한국사회복지교육협의회), Republic of Korea.

2023. New and Emerging Transportation Technologies and Gender. Korean Association of Women's Studies (한국여성학회), Republic of Korea.

2022. Safety and Privacy Regulations for Unmanned Aerial Vehicles. International Public Transportation Forum, Korean Society of Transportation (대한교통학회), Republic of Korea.

2022. *Keynote Speaker*. A Comparative, Sociotechnical Design Perspective on Responsible Innovation. Workshop on Bridging International Societal Differences in Autonomous and Digitalized Energy Systems at ACM e-Energy. University of Oldenburg, Germany.

2022. Sustainable Energy Transition Theories and International Practices. Graduate School of Economics, Kyoto University, Japan.

2021. Safety and Privacy of Unmanned Aerial Vehicles. Workshop on Assured CPS Autonomy for 3d Urban Transportation: Drones, Flying Cars and Beyond. NSF-PIRE Workshop: US-Germany CPS Collaboration. University of California, Berkeley, US.

2021. Can We Utilize Meter Data and Maintain Consumer Privacy? Institute of Public Utilities, Michigan State University, US.

2020. On-Road Testing of Connected and Automated Vehicles Regulations: Assessing the Potential for Global Safety Harmonization. Workshop: Social Dynamics beyond Vehicle Autonomy. Institute for Pure and Applied Mathematics, National Science Foundation, US.

2020. Safety and Equity Issues in Connected and Automated Vehicles. Driving Despite Impairments. Technical University Munich, Germany.

TEACHING

Certificate in College Teaching and Online Teaching Certificate, Vanderbilt University

2026. Spring. Future Mobilities and Social Policy. Undergraduate Level. KAIST (3 credits).

2025. Fall. Environmentalism and Environmental Policy. Graduate Level. KAIST (3 credits).

2025 Fall. Smart Energy and Environmental Technologies and Financial Innovation. Co-Teaching with College of Engineering. KAIST (3 credits).

- 2025 Spring and Fall. STP Seminar. Undergraduate Level. KAIST (1 credit).
- 2025 Spring. Digitalization and Sustainability. Undergraduate Level. KAIST (3 credits).
- 2024 Fall. Advanced Special Topics in Science and Technology Policy: Digital Data for Policy Analysis. Graduate Level. KAIST (3 credits).
- 2024 Spring and Fall. STP Seminar. Undergraduate Level. KAIST (1 credit). Both Spring and Fall Semesters.
- 2024 Spring. Science and Technology Policy. Undergraduate Level. KAIST (3 credits).
- 2023 Fall. AI, Big Data, and Society. Undergraduate Level. KAIST (3 credits).
- 2023 Spring. Digitalization and Sustainability. Undergraduate Level. KAIST (3 credits).
- 2023 Spring. Advanced Special Topics in Science and Technology Policy: AI and Cyber-Physical Systems Policy. Graduate Level. KAIST (3 credits).
- 2022 Fall. Advanced Special Topics in Science and Technology Policy: Digital Data for Policy Analysis. Graduate Level. KAIST (3 credits).
- 2022 Spring. Regulating Robotics, Department of Electrical Engineering Mathematics and Computer Science, Master's Level, University of Twente (2.5 credits).
- 2022 Spring. Smart Rules & Regimes, Department of Public Administration, Master's Level, University of Twente (5 credits).
- 2021 Fall. Digitalization and Sustainability, Department of Governance and Technology for Sustainability, Master's Level, University of Twente (2 credits).
- 2021 Spring. Energy Management, Department of Governance and Technology for Sustainability, Master's Level, University of Twente (4 credits).
- 2020, 2021, 2022 Spring: Training on Cyber-Physical Systems Virtual Organization, Institute for Software Integrated Systems, Vanderbilt University (2020, 2021: co-lectured as teaching assistant; 2022: guest lecturer).
2019. Human Behavior in Organizations, Vanderbilt University (3 credits).
2018. Professional Development Workshop: Introduction to Statistics, Exploring in Diversifying Engineering Faculty Initiative, Vanderbilt University.
2013. Guest lecturer, East Asian Economy, Graduate School of Economics, Kyoto University.

MENTORSHIP

Primary Advisor

2026. Yookyung Chin. Beyond Users: Exploring the Non-User Landscape for Urban Air Mobility. Master of Engineering, Graduate School of Science and Technology Policy. KAIST. Primary Advisor and Thesis Committee Chair.

2024. Euibeom Son. Trusting New and Emerging Technologies: Automated Vehicles and Generative Artificial Intelligence. Master of Engineering, Graduate School of Science and Technology Policy. KAIST. Primary Advisor and Thesis Committee Chair.

2024. Neul Oh. Silent Boundaries and Anonymous Names: On Accessibility to Medical Transition for Transgenders. Master of Engineering, Graduate School of Science and Technology Policy. KAIST. Primary Advisor and Thesis Committee Chair.

2022. Hulst, Jurgen. Measuring and Improving the Impact of Sustainable Public Procurement of Immunization Cold Chain Equipment by UNICEF. Master of Environmental and Energy Management, University of Twente. Primary Advisor and Thesis Committee Chair.

2022. Fuentes, Valeria. Incentive Mechanisms for Dutch Energy Transition: The Role of the SDE++ Subsidy Scheme for Introducing Solar PV Technologies in the Dutch Electricity Market Towards an Energy Transition, Master of Environmental and Energy Management. University of Twente. Primary Advisor and Thesis Committee Chair.

2022. Giri, Bishwa. The Barriers to Implementing Green Hydrogen in the Decarbonization of the Dutch Container Glass Industry. Master of Environmental and Energy Management, University of Twente. Primary Advisor and Thesis Committee Chair.

2022. Nouri, Behrouz. Energy Transition and the European Proposal for Artificial Intelligence Act. Case Study: The Netherlands. Master of Environmental and Energy Management, University of Twente. Primary Advisor and Thesis Committee Chair.

Committee Member

2026. Eric Min Kim. Data-Driven Optimization of Charging Hub Expansion Planning for Shared Micro-EV Services. Master of Engineering, Cho Chun Sik Graduate School of Mobility. KAIST. Thesis Committee Member.

2026. Taekyung Kim. Becoming Digitally Literate Later in Life: Domains, Interventions, and Ageist Barriers. PhD in Engineering, Graduate School of Science and Technology Policy. KAIST. Dissertation Committee Member.

2025. Song, Jung-Woo. Digital Divide and Life Space: A Generational Comparison of the Ability to Use Digital Map Among Older Adults. Master of Science, Graduate School of Data Science. KAIST. Thesis Committee Member.

2025. Donghun Kang. Environmental Attitudes and Behaviors in the Anthropocene: A Focus on the Circular Economy in the Digital Age. PhD in Engineering, Graduate School of Science and Technology Policy. KAIST. Dissertation Committee Member.

2025. Ji-Soo Sim. Beyond the Sectoral Border: A Trend Analysis of International Development Integrating Digital Technology and Education. Master of Engineering, Graduate School of Science and Technology Policy. KAIST. Thesis Committee Member.

2025. Heewon Kim. The Coded Face: Making Scientific Sense of Facial Expressions, 1960-2010. PhD in Engineering, Graduate School of Science and Technology Policy. KAIST. Dissertation Committee Member.

2024. Jaeree Kim. Gamer: Game-Native as a New Humanity in Postmodern Period – A Case Study on Korean Indie Game Development. Master of Engineering, Graduate School of Science and Technology Policy. KAIST. Thesis Committee Member.

2023. Monika Didziulyte. Beyond the Nuclear Family: A Feminist Critique of Assisted Reproductive Technology Policy. Master of Engineering, Graduate School of Science and Technology Policy. KAIST. Thesis Committee Member.

2023. Ilana Nichole Herold. Re-visioning Sustainability in the City: Urban Agriculture in South Korea as a Platform of Everyday Governance. Master of Engineering, Graduate School of Science and Technology Policy. KAIST. Thesis Committee Member.

2022. Ton Kempenaar. Community Compensation Fund and Social Acceptance of Onshore Wind Energy Projects. Master of Environmental and Energy Management, University of Twente. Secondary Advisor and Thesis Committee Member.

2021. Urban, Emese. The Past, the Present and the Potential Future of Autonomous Vehicles in the European Union and in the United States. Master of Public Administration, University of Twente. Secondary Advisor and Thesis Committee Member.

CONFERENCE
PRESENTATIONS

2025. EQUALS Research Report 2025: Launch & The Path Forward. World Summit on the Information Society (WSIS), International Telecommunication Union (ITU).

2025. Clean Energy Conservatism: Attitudes Toward Renewable Energy and Nuclear Energy. Atlanta Conference on Science and Innovation Policy.

2025. Moderator, Improving International Collaboration in Korean Research. Index Live: Growing Korean Research Performance in an Uncertain World. Organized by Nature and KAIST.

2024. The Sustainability of Liquified Natural Gas: Analyzing Media Data in South Korea. EASST-4S.

2023. Capital Endowments: How Renewable Energy Technologies Are Reshaping the Socio-Cultural Capital Landscape in the Netherlands. Annual Meeting of Society for Social Studies of Science.

2023. Regulations on Data Centers for Climate Change and Privacy: A Comparative Review and Policy Harmonization. Annual Meeting of Society for Social Studies of Science.

2023. The Role of New and Emerging Technologies in the Energy Transition. Open Panel Organizer. Annual Meeting of Society for Social Studies of Science.

2023. Understanding Energy Citizenship: How Cultural Capital Shapes the Energy Transition. Association for East Asian Environmental History.

2022. How Energy Policy Triggers the Energy Transition in the EU: Reflections on a Dutch Energy Subsidy Scheme. 3rd International Conference on Energy Research & Social Science Conference.

2022. Energy Transitions and Political Conservatism: Geopolitical Context and Political Barriers. Annual Meeting of the European Urban Research Association.

2021. Public Concerns and Connected and Automated Vehicles: Safety, Privacy, and Security. 12th International Sustainability Transitions Conference.

2021. Corporate Social Responsibility and Transnational Capitalist Class; Comparing the Global Corporate Citizenship and Universal Owner. Annual Meeting of the American Sociological Association.

2021. Responsible and Profitable: The Co-existence of Institutional Logics in Corporations. Annual Meeting of Society for the Study of Social Problems.

2020. Privacy and Smart-Meters: A Comparative Analysis and Assessment of Harmonization Potential. Association for Public Policy Analysis & Management.

2020. Measuring Corporate Social and Environmental Responsibility: An Evaluation of a New Index Based on the Sustainable Development Goals. Annual Meeting of the American Sociological Association.

2020. Why do Corporations Change: Developing a New Understanding of the Industry Opportunities Structures Perspective. Accepted: Society for the Study of Social Problems 2020 Annual Meeting. Cancelled due to COVID 19.

2019. Incumbent Resistance and Solar Transition: Linkages between Framing Strategies and Opportunity Structures. Industry Studies Association Annual Conference.

2019. Race, Gender, and Mental Health Among Engineering Doctoral Students: Determinants of Stress and Seeking Help. American Educational Research Association.

2018. Intersectional Organization: 2006 Immigration Protests in MSAs and Changes in Identity Politics in Labor Movements, American Sociological Association.

2014. East Asia Power Hierarchy and Its Implications, Erasmus University, Netherlands.

2013. Capitalism and Racial Thinking: The relations between the rise of capitalism and the place of sub-continental Indians in the discourse of racism and cultural superiority in the 18th and 19th century, 61st Annual Conference of Japan Society of Political Economy: Cataclysm of Global Economy and Future of Capitalism, Japan.

2013. Transnational Families: Korean Students' Perception of the Changes of Their Family Relationship due to the Students' Migration, Yanbian University 3rd Korea, China, Japan Language and Cultural Comparative Studies International Symposium, China.

2013. A Qualitative Analysis on the Changes of Perspectives of a Japanese University Students towards Multiculturalism after Entering Higher Education, Annual Sociological Conference of Kansai University, Kansai University, Japan.

AWARDS

2025. Outstanding Research Award (우수연구상, 우수상), College of Liberal Arts and Convergence Science, KAIST

2024. Global Research Collaboration Award (국제 협력연구상), KAIST

2024. Outstanding Research Award (우수연구상, 우수상), College of Liberal Arts and Convergence Science, KAIST

2023. Outstanding Research Award (우수연구상, 우수상), College of Liberal Arts and Convergence Science, KAIST

2023. Impact Research Award to Faculty Members who Contribute to Enhancing the International Status (국제적 위상 제고 기여 교원, A 급), KAIST (Grade A, highest among all assistant professors in the college)

FELLOWSHIPS

2024-2027. EWon Assistant Professorship, KAIST

2020-2021. HASTAC Scholar, Computational Thinking and Learning Initiative, Vanderbilt University

2020. Russell Hamilton Graduate Leadership Grant, Vanderbilt University

2015-2020. Marion T. Loftin Scholarship, Vanderbilt University

2015-2020. Graduate Assistantship, Vanderbilt University

2012-2014. Ministry of Education, Culture, Sports, Science and Technology of Japan (MEXT) Scholar; Full tuition and stipend offered for 5 years

EDITORIAL BOARD

2025-Present. Associate Editor, Engaging Science, Technology, and Society

2022-Present. Associate Editor, ACM Journal on Responsible Computing

2022-Present. Editorial Board Member, Humanities and Social Sciences Communications

2018-2021. Associate Editor, Work and Occupations

SERVICE

2026. Advisory Committee. The 15th Asia Pacific Conference on Transportation and the Environment. Jeju, South Korea.

2024-2025. Co-Chair. The 10th Atlanta Conference on Science and Innovation Policy, Georgia Institute of Technology.

2024-2025. Organizing Committee Member. Index Live: Growing Korean Research Performance in an Uncertain World, KAIST and Nature, Nature Conferences.

2024-2025. Freshmen Advisor for the Later Entry Classes. 2024 Fall Semester and 2024 Spring Semester, KAIST.

2024-Present. Head of Undergraduate Minor Program, Graduate School of Science and Technology Policy, KAIST.

2024-2025. United Nations EQUALS Research Coalition Editorial Board Member, Section Editor: Digital Skills and Education.

2023. Freshmen Advisor (Group 8). 2023 Spring Semester and 2023 Fall Semester, KAIST.

2023-2024. Co-Chair. Faculty Search Committee, Graduate School of Science and Technology Policy, KAIST.

2023-2025. College of Liberal Arts and Convergence Science Registrar Committee, Committee Member (인문사회융합과학대학 학사심의회, 위원)

2023-2024. Research Center of Humanities and Social Sciences Committee, Committee Member (인문사회과학연구소 운영위원회, 위원)

2023-2024. Graduate School of Science and Technology Policy Curriculum Committee, Committee Member(과학기술정책대학원 학사심의회, 위원)

2021-Present. Member, Climate Social Science Network, Brown University

Ad hoc reviewer for AI and Ethics; Behavior & Information Technology; Competition and Regulation in Network Industries; Contemporary Sociology; Energy for Sustainable Development; Energy Policy; Energy Reports; Energy Research & Social Science; Environmental Impact Assessment Review; Environmental Sociology; Frontiers in Sustainable Cities; Humanities and Social Sciences Communications; International Journal of Data Science and Analytics; International Journal of Information Security; International Journal of Organizational Analysis; Journal of Cleaner Production; Journal of Environmental Planning and Management; Journal of Environmental Psychology; Open Research Europe (European Commission); Policy Studies Journal; Science, Technology, & Human Values; Sustainable Futures; Transportation Research Part C: Emerging Technologies; Transportation Research Part E: Logistics and Transportation Review; Travel Behaviour and Society; Utilities Policy; and Work and Occupations.

PROFESSIONAL AFFILIATIONS

Society for Social Studies of Science (4S)

Association for Public Policy Analysis & Management (APPAM)

European Association for the Study of Science and Technology (EASST)

SKILLS

English (Fluent), Korean (Native)

R, MPlus, LISREL, Python, GridLAB