CURRICULUM VITAE SO YOUNG KIM

(August 2023)



CONTACT

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> KAIST (Korea Advanced Institute of Science & Technology) 291 Daehak-ro, Yuseong-gu, Daejeon 34141, Republic of Korea

EDUCATION

Ph.D.	Department of Political Science, Northwestern University	09/1996~06/2004
	Dissertation Title: A Mistaken Link and Divergent Paths:	
	Globalization, Economic Insecurity, and Social Spending (1950-99)	
	(Advisor: Michael Wallerstein)	
M.S.	Program in Mathematical Methods in the Social Sciences (MMSS),	09/1998~12/1999
	Northwestern University (earned after completing the doctoral	
	coursework in the Political Science Department)	
M.A.	Department of Political Science, Seoul National University	03/1993~02/1995
B.A.	Department of English Language Education, Seoul National	03/1988~02/1993
	University	

APPOINTMENTS

Primary Appointments

Head	Graduate School of S&T Policy, KAIST	09/2015~02/2020
Assistant, Associate, Full Professor	Graduate School of S&T Policy, KAIST	01/2009~
Assistant Professor	School of Humanities & Social Sciences, KAIST	02/2007~12/2008
Assistant Professor	Department of Political Science, Florida Atlantic University	08/2004~12/2006
Data Archivist	Social Science Computing Center, University of Chicago	01/2004~07/2004

Secondary Appointments

Deputy Director	Future Government Leadership Center, KAIST, funded by Ministry of Personnel Management	2022~		
Director	Korea Policy Center for the Fourth Industrial Revolution (KPC4IR), KAIST, funded by Ministry of Science and ICT	2020~		
Deputy Director	KAIST ODA Center	2019~		
	(1) Project Coordinator, Consulting Project for the Establishment of Kenya Advanced Institute of Science and Technology, KAIST-SAMOO-SUNJIN Consortium, ODA Loan Project funded by Korea Eximbank & Ministry of Economy and Finance			
	(2) Project Manager, Feasibility Study for the Establishment of Egypt Advanced Institute of Science and Technology, KAIST-SUNJIN-SANGJI Consortium, Korea Eximbank	2023		
Director	Center for Interdisciplinary Education Research, KAIST	2018~		
Deputy Director	Fourth Industrial Revolution Intelligence Center (FIRIC), KAIST	2017~2020		
Director	Center for Science, Policy and Society (CSPS), KAIST	2016~2020		
Deputy Director	Nuclear Nonproliferation Research and Education Center (NEREC), KAIST	2016~2018		
Adjunct Professor	Graduate School of Future Strategy, KAIST	2013~		
Visiting Professor	Sam Nunn School of International Affairs, Georgia Institute of Technology	2012		
Director	Undergraduate Program in S&T Policy, KAIST	2011~2018		
Adjunct Professor	Master of Science Journalism Program, KAIST	2010~2012		
Data Analyst	Ceasefire Program Assessment Project, Chicago Community Policing Evaluation Consortium, Illinois Department of Justice	2004~2006		
OTHER APPOINT	OTHER APPOINTMENTS			
Co-	Citizens' Coalition for Scientific Society	2020~		
Representative	(바른과학기술사회실현을위한국민연합 공동대표)			
Director	Policy Institute, Korea Federation of Women S&T Associations (한국여성과학기술단체총연합회 정책연구소장)	2019~		
Vice-President	Korean Technology Innovation Society (기술혁신학회 부회장)	2018~		
Member	Editorial Board, East Asian Science, Technology, and Society Journal (SSCI)	2016~		

HONORS AND AWARDS

Research Innovation Award, College of Liberal Arts and Convergence Science, KAIST	2022
Award for Service in Science and Technology, Committee on Science, ICT, Broadcasting and Communication Committee (국회 공로장 과학기술정보방송통신상임위원장상),	2019
National Assembly, Republic of Korea	
Excellence in International Collaboration Award, KAIST (개교기념 국제협력상)	2018
Best S-Mentor Award, Korea Advanced Institute of Women in Science, Engineering, and Technology	2016
KAIST's Ten Major Research Achievements (KAIST 10 대 연구성과)	2013
STEPI Fellowship, Science & Technology Policy Institute	2013
Excellence in University Service Award, KAIST	2010
Postdoctoral Research Fellowship, Minnesota Population Center, University of Minnesota	2004
MacArthur Research Grant for Graduate Students, Northwestern University	2002
Travel Grant for Advanced International Graduate Students, American Political Science Association	2002
Seoul National University Alumni Scholarship, SNU Alumni Association	2001
Chung-Ahm Foundation Scholarship, Chicago	2000
Fulbright Scholarship, J. William Fulbright Foreign Scholarship Board	1996

RESEARCH

RESEARCH INTERESTS

- <u>Science and Technology Policy</u>: R&D funding, R&D evaluation, basic science policy, big science policy, S&T workforce policy, women in science policy, nuclear policy, science-based ODA
- <u>International Political Economy</u>: government spending in open economy, global governance of emerging technology, international public opinion on climate change

PUBLICATIONS

Journal Articles

Seolmin Yang & So Young Kim, "Knowledge-Integrative Research Is More Disruptive When Supported by Homogeneous Funding Sources: A Case of US Federally Funded Research in Biomedical and Life Sciences," *Scientometrics* 128 (6): 3257-82 (SSCI)

Maria Ranga & So Young Kim, "Next-generation innovation policies: Promoting systematic socioeconomic transformative change," <i>Frontiers in Research Metrics and Analytics</i> 8. https://doi.org/10.3389/frma.2023.1146039 (Feb 13)	2023
Danbee Back & So Young Kim,	
Joonhyeok Park, Kibae Kim, & <u>So Young Kim</u> , "Blockchain Unpacked: An Agent-Based Model of Economic Inequality and Its Implications for Technology Governance in Blockchain," Submitted to <i>MIS Quarterly</i> (SSCI)	2022
So Young Kim, "To Boost South Korea's Basic Science, Look to Values, Not Just Budgets," <i>Nature</i> 606: 229 (SCI)	2022
Seolmin Yang & So Young Kim, "Managing Knowledge Creation with Demographic Faultlines: A Case of University Laboratories," <i>Asian Journal of Technology Innovation</i> 29 (3): 349-368 (SSCI)	2021
So Young Kim & Yoonhoo Kim, "The Ethos of Science and Its Correlates: An Empirical Analysis of Scientists' Endorsement of Mertonian Norms," <i>Science, Technology and Society</i> 23 (1): 1-24 (SSCI)	2018
Joonha Jeon & <u>So Young Kim</u> , "Is the Gap Widening among Universities? On Research Output Inequality and Its Measurement in Korean Higher Education System," <i>Quality and Quantity</i> 52 (2): 589-606 (SSCI)	2017
So Young Kim, "The Fourth Industrial Revolution and the Triple Helix," <i>Helices</i> 6 (2): 8-11	2017
Inkyoung Sun & <u>So Young Kim</u> , "Energy R&D towards Sustainability: A Panel Analysis of Government Budget for Energy R&D in OECD Countries 1974-2012," <i>Sustainability</i> 9 (4): 617-636 (SSCI)	2017
Youngsun Jang, Yongjoo Ko, & <u>So Young Kim</u> , "Cultural Correlates of National Innovative Capacity: A Cross-national Analysis of National Culture and Innovation Rates," <i>Journal of Open Innovation: Technology, Market and Complexity</i> 2 (1) DOI: 10.1186/s40852-016-0048-6	2016
Joo-Sang Park & <u>So Young Kim</u> , "Rivalry between the US and Europe in International Standardization Activities: The Case of JTC1/ SC 31/ WG7," <i>Journal of Technology Innovation</i> 23 (3): 201-223 [in Korean]	2015
So Young Kim & Yael Wolinsky-Nahmias, "Cross-National Public Opinion on Climate Change: The Effects of Affluence and Vulnerability," <i>Global Environmental Politics</i> 14 (1): 79-106 (SSCI)	2014
So Young Kim, "Government R&D Funding in Economic Downturns: Testing the Varieties of Capitalism Conjecture," <i>Science and Public Policy</i> 41 (1): 107-118 (SSCI)	2014
So Young Kim, "Incorporating Ex-Ante Risk in Evaluating Public R&D Programs: A Counterfactual Analysis of the Korean Case," <i>Science, Technology, and Innovation Review</i> 4 (2): 41-54	2013

Policy," Asian Research Policy 3 (1): 33-49	2012
So Young Kim, "Public Perceptions of Climate Change and Support for Climate Policies in Asia: Evidence from Recent Polls," <i>Journal of Asian Studies</i> 70 (2): 1-13 (SSCI)	2011
So Young Kim, "Do Asian Values Exist? Empirical Tests of the Four Dimensions of Asian Values," <i>Journal of East Asian Studies</i> 10 (2): 315-44 (SSCI)	2010
So Young Kim, "Openness, External Risk, and Volatility: Implications for the Compensation Hypothesis," <i>International Organization</i> 61 (1): 181-216 (SSCI)	2007
So Young Kim, "Globalization and Perceptions of Economic Insecurity," <i>Journal of International and Area Studies</i> 13 (2): 37-53	2006
Books	
A Return of the Future: COVID-19 and the Fourth Industrial Revolution, Seoul: Hanul Academy (co-edited with K. Kim, M. Yim, and D. Back) [in Korean]	2020
A Specter of the Fourth Industrial Revolution, Seoul: Humanist (co-authored with Sungwook Hong, et al.) [in Korean]	2017
Science and Technology Policy: Theories and Issues, Seoul: Hanul Publishing Company (co-edited with Buhm Soon Park) [in Korean]	2015
Book Chapters	
So Young Kim, "Development and Developmentalism of Artificial Intelligence: Decoding South Korean Policy Discourse on Artificial Intelligence," in <i>Imagining AI: How the World Sees Intelligent Machines</i> edited by Stephen Cave and Kanta Dihal, Oxford University Press (May 25)	2023
So Young Kim, "Public Research Funding in Asian Latecomer Countries: Development Legacy and Dilemmas," Handbook of Public Funding of Research. edited by Benedetto Lepori, Ben Jongbloed, and Diana Hicks, Edward Elgar Publishing (April 26)	2023
So Young Kim & Inkyoung Sun, "Between the Rhetoric and the Reality: Renewable Energy Promotion vs. Adoption in South Korea," in <i>New Challenges and Solutions in Renewable Energy Development in Japan, East Asia, and Northern Europe</i> edited by Paul Midford and Espen Moe, Palgrave MacMillan	2021
So Young Kim, "Prospects for Political Institutions," in 2016 National Future Strategy, Icon [in Korean]	2015
So Young Kim, "Asian Americans, Religion, and the 2008 Presidential Election," in <i>Religion, Race, and Barack Obama's New Democratic Pluralism</i> edited by Gaston Espinosa, Routledge	2012
So Young Kim, "Ministry of the Environment," "Ministry of Science & Technology," "Nanotechnology Promotion Act of 2002," "National Nanotechnology Development	2010

Plan," and "South Korea," entries for the *Encyclopedia of Nanoscience and Society* edited by David Guston, Sage Publications

So Young Kim, "Asian Americans, Religion, and the American Presidency," in *Religion*, 2008 *Race and the Presidency* edited by Gaston Espinosa, Rowman & Littlefield

Work in Progress

Seunghoon Yang & So Young Kim, "Industrial Patriarchy and Gendered Engineering in Regional Innovation: A Case of the Industrial Restructuring of the Southwestern Heavy Industry Region in South Korea"

Seolmin Yang, Hyejin Youn, & So Young Kim, "Reducing the Risk of Exploration: 2022.3~

Innovation Relying on Government-Funded Research"

Moonjung Yim, Danbee Back, Joonhyeok Park, & <u>So Young Kim</u>, "Untangling Ethical 2021.8~

Challenges at the Intersection of Data and Stakeholders: A Study of Ethical Issues in

Health data-based Precision Medicine Initiatives"

Conference Papers

Moonyul Yang & So Young Kim, "An Unlikely Link: Foreign Funds and the South Korean Defense Industry," 9th Biennial Atlanta Conference on Science and Innovation Policy, May 24-26, 2023 [Honorable Mention for the Best Early Career Poster Award]

Seolmin Yang, Hyejin Youn, & <u>So Young Kim</u>, "Reducing the Risk of Exploration: Innovation Relying on Government-Funded Research," Summer Conference of the Korea Society for Innovation Management and Economics (KOSIME), Jeju, July 7-9, 2022 [Best Paper Award]

<u>So Young Kim</u>, "A Crossnational Study of Political Correlates of Digital Contact Tracing Policy," presented at the 117th Annual Meeting of the American Political Science Association (APSA), Seattle, September 30-October 3, 2021

<u>So Young Kim</u>, "A Schizophrenic Public? Understanding the Shifts of Public Opinion on Nuclear Energy Policy through the Deliberative Polling Process," 8th Biennial Atlanta Conference on Science and Innovation Policy, Atlanta, October 14-16, 2019

Seolmin Yang & So Young Kim, "Strategizing scientific awards: The impacts of early-career awards on the research network of recipient scientists," 8th Biennial Atlanta Conference on Science and Innovation Policy, Atlanta, October 14-16, 2019

Joonhyeok Park, Kibae Kim, & <u>So Young Kim</u>, "Centralization by Decentralization: An Agent-based Model of the Competitive Consensus Algorithm," 21st Convergence Conference of the Korea Management Association, August 19-21, 2019 [Best Paper Award]

So Young Kim, "Multiple Conceptions and Measurements of Emerging Technologies," Korean Society of Innovation Management and Economics Annual Conference, Jeju, July 6-7, 2018

In Keon Lee & <u>So Young Kim</u>, "Do Corporate Researchers Contribute to Employment? Research Productivity, Innovation, and Employment," 17th International Joseph A. Schumpeter Society, Seoul, July 2-4, 2018

Seolmin Yang & So Young Kim, "Re-combining social category diversity and tenure diversity: A cross-level analysis of individual explicit knowledge," 7th Biennial Atlanta Conference on Science and Innovation Policy, Atlanta, October 9-11, 2017

In Keon Lee, Jun Gyu Kim, Sun Woong Kim, & <u>So Young Kim</u>, "Linear Thinking in the Governance of Emerging Technologies: An Analysis of the Emerging Epistemic Community of the Fourth Industrial Revolution Technologies in South Korea," European Consortium for Political Research General Conference, Oslo, September 6-9, 2017

Bitna Lee & So Young Kim, "Expert-Expert Gap? A Study of Heterogeneity in Risk Perceptions among Nuclear Experts," Society for Social Studies of Science Annual Meeting, Boston, August 30-September 2, 2017

Seolmin Yang & So Young Kim, "Re-combining Social Category Diversity and Tenure Diversity: A Cross-level Analysis of Individual Explicit Knowledge Creation," 17th International Conference on Knowledge, Culture and Change in Organizations, Organizational Studies, Darwin, Australia, April 20-21, 2017

Ohsung Ahn & So Young Kim, "A Review of the Growth Pattern of the Aircraft Industry and the National Strategy for Its Promotion," Annual Conference of the Korean Society of Aviation and Aeronautics, Jeju, November 25-26, 2016

<u>So Young Kim</u>, "From Minority to Diversity: Institutional Pillars and Core Policies for Women in Science and Technology in South Korea," RIAW International Conference on Women and Gender in Science & Engineering, Sookmyoung Women's University, Seoul, November 3, 2016

Joonha Jeon & <u>So Young Kim</u>, "Stratification by Classification: Uncovering Institutional Matthew Effect in Korean Higher Education and Its Impact," 14th International Triple Helix Conference, Heidelberg, September 25-27, 2016

Seolmin Yang & So Young Kim, "Understanding the Process of Knowledge Creation in University Laboratories: A Multilevel Analysis of Laboratory Dynamics," 14th International Triple Helix Conference, Heidelberg, September 25-27, 2016

<u>So Young Kim</u> & Man-Sung Yim, "Global Nuclear Public Opinion and Policy Implications: A Crossnational Analysis of Surveys and Polls on Nuclear Security and Nonproliferation," presented at the 57th Meeting of the Institute for Nuclear Materials Management (INMM), Atlanta, July 24-28, 2016

Seolmin Yang & So Young Kim, "Managing Knowledge Creation in University Laboratories: The Implications for Team Science," Dupont Summit on Science and Technology Policy, Washington, D.C., December 4, 2015

YoungSun Jang, Young-Ju Ko, & <u>So Young Kim</u>, "Cultural Correlates of National Innovative Capacity: A Cross-National Study of Non-Institutional Dimensions of Innovation," Atlanta Conference on Science and Innovation, Atlanta, September 17-18, 2015

<u>So Young Kim</u>, "The Long-term Policy Roadmap for Korean Women Scientists and Engineers," Session on the Updating the Status of Policies to Promote Women Scientists and Engineers, Gender Summit Asia Pacific, Seoul, August 27-28, 2015

Joo-Sang Park & So Young Kim, "Late-comer Standardization and the Global Technological Standards Regime," World Congress for Korean Politics and Society, Gyeongju, August 25-27, 2015

Joo-Sang Park & So Young Kim, "Leadership Competition between European Countries and the US in International Standardization Activities: The Case of JTC1/SC 31/WG7," Summer Conference of the Korean Society for Innovation Management & Economics, Jeju, June 26-27, 2015

Chan Kim, So Young Kim, & <u>Man-Sung Yim</u>, "Examination of the State-Level Nuclear Security Method," Spring Meeting of the Korea Nuclear Society, Jeju, May 6-8, 2015

Jee-Min Ha, So Young Kim, Man-Sung Yim, & <u>Hyeon Seok Park</u>, "Examination of the Relationship between Nuclear Transparency and Nonproliferation," Spring Meeting of the Korea Nuclear Society, Jeju, May 6-8, 2015

<u>So Young Kim</u>, "The Middle Class Racing Against the Machine? Technology and Middle-Class Unemployment in Hard Times," International Conference of the Association for Public Policy and Management (APPAM), Madrid, Spain, September 29-30, 2014

So Young Kim & Buhm Soon Park, "Modeling and Estimating the Science-Policy Interface: Research Funding, Bureaucratic Quality, and Scientific Performance," 110th Annual Meeting of the American Political Science Association (APSA), Washington, DC, August 28-31, 2014

Heonjun Park, Kyo-Nam Kim, So Young Kim, & <u>Man-Sung Yim</u>, "A Bayesian Game Approach to Insider Threat to Nuclear Security," 55th Meeting of the Institute for Nuclear Materials Management (INMM), Atlanta, July 20-24, 2014

Kyo-Nam Kim, So Young Kim, Erich Schneider, & Man-Sung Yim, "A Game-Theoretic Approach to Nuclear Security Analysis against Insider Threat," 55th Meeting of the INMM, Atlanta, July 20-24, 2014

Chan Kim, So Young Kim, & <u>Man-Sung Yim</u>, "Quantifying the Cultural Dimension of State-level Nuclear Security," 55th Meeting of the INMM, Atlanta, July 20-24, 2014

Chul Min Kim, Hyeon Seok Park, So Young Kim, & <u>Man-Sung Yim</u>, "Modeling Nuclear Proliferation – Characterization based on the history," 55th Meeting of the INMM, Atlanta, July 20-24, 2014

<u>So Young Kim</u>, "Contesting and Operationalizing Qualitative Performance Indicators in Publicly Funded R&D Programs," International Conference on Public Policy, Grenoble, France, June 26-28, 2013

So Young Kim, "Rigor vs. Insight: Teaching Political Science to Science & Engineering Students," 10th Teaching and Learning Conference of the APSA, February 8-10, 2013 (listed as Top Ten Download on Social Science Research Network (SSRN) for February & March, 2014)

<u>So Young Kim</u>, "Creating a Developmental State out of "Nano": Rationales and Rhetoric of Government Funding for Nanotechnology in the Developing World," 37th Society for Social Studies of Science (4S) Conference, Copenhagen Business School, Copenhagen, October 17-20, 2012

- <u>So Young Kim</u> & Edward Schwerin, "Green Growth as a New Strategy of Development: the Case of South Korea," 33rd Annual Meeting of the Association for Public Policy and Management (APPAM), Washington, D.C., November 3-5, 2011
- <u>So Young Kim</u> & Yael Wolinsky-Nahmias, "Climate Change, Affluence, and Vulnerability: A Crossnational Analysis of Global Public Opinion and Its Correlates," 107th Annual Meeting of the APSA, Seattle, September 1-4, 2011
- <u>So Young Kim</u>, "Scientists under Anarchy: Use of Scientific Expertise in Global Governance," International Studies Association Annual Convention, Montreal, Canada, March 16-19, 2011
- <u>So Young Kim</u>, "Government R&D as a Redistribution Problem: A Panel Analysis of Government R&D vs. Social Spending in 28 OECD Countries (1981-2009)," 32nd Annual Meeting of APPAM, Boston, November 4-6, 2010
- <u>So Young Kim</u>, "Investing in Science and Technology in Economic Hard Times: An Analysis of Government Support for R&D of 24 OECD Nations in 1981-2010," 106th Annual Meeting of the APSA, Washington, D.C., September 2-5, 2010
- <u>So Young Kim</u>, "Duality of the Collective Identity of Scientists in Pluralist Democracy," 35th Annual Meeting of the 4S, Tokyo, August 25-29, 2010
- <u>So Young Kim</u>, "Behind Consensus: An Anatomy of Global Public Opinion on Climate Change," Dupont Summit 2009, Washington, D.C., December 4-5, 2009
- <u>So Young Kim</u> & Yael Wolinsky-Nahmias, "Public Concern, Knowledge, and Support for Climate Change Mitigation: Aggregate & Individual-level Analysis," 105th Annual Meeting of the APSA, Toronto, September 3-6, 2009
- So Young Kim, "Technological Kuznets Curve: Technology, Inequality and Government Policy," 104th Annual Meeting of the APSA, Boston, August 28-31, 2008
- <u>So Young Kim</u> & Yael Wolinsky-Nahmias, "Trends in Global Environmental Opinion," Annual Meeting of the International Society of Political Psychology, Paris, July 9-12, 2008
- <u>So Young Kim</u>, "Interests, Ideas, and Information: A Multilevel Analysis of the Nonresponse Problem in the Globalization Surveys," 102nd Annual Meeting of the APSA, Philadelphia, August 31-September 3, 2006
- <u>So Young Kim</u>, "Who "Don't Know" whether Globalization is Good or Bad? An analysis of non-responses to the globalization survey question," International Studies Association Annual Convention, San Diego, March 23-26, 2006
- <u>So Young Kim</u>, "Globalization and Government Social Spending in Asia (1960-2002)," Annual Convention of the Association for Asian Studies, Chicago, March 31-April 3, 2005
- <u>So Young Kim</u>, "Globalization and Economic Insecurity: Perceptions and Reality," Annual Meeting of the Midwest Political Science Association, Chicago, April 3-6, 2003
- <u>So Young Kim</u>, "Two Worlds that Never Come Close: A Bifurcating Pattern of Globalization and Social Spending in Developed vs. Developing Nations," International Studies Association Annual Convention, Portland, February 25-March 1, 2003

So Young Kim, "What If More Open Economies Are Not More Volatile? Implications for the Compensation Argument," 98th Annual Meeting of the APSA, Boston, August 29-September 1, 2002 So Young Kim, "Economic Openness, Volatility, and Government Size," Annual Meeting of the Southwestern Social Sciences Association, Fort Worth, Texas, March 14-18, 2001 So Young Kim, "A Signaling Model of Government Spending in a Financially Open World, Annual Meeting of the Midwest Political Science Association," Chicago, April 27-30, 2000

Reports and Briefs from Funded Policy Projects

[International Collaboration]

POINT Review of Biohealth Industrial Transition of the Daejeon and Chungcheong 2022 Province, Collaborative work of the Korea Policy Center for the Fourth Industrial Revolution (KPC4IR), Daejeon Institute of Science & Technology for Enterprise & People (DISTEP), and European Commission Joint Research Center Using Artificial Intelligence to Support Healthcare Decisions: A Guide for Society, 2021 Collaborative Work of KPC4IR, Institute for the Public Understanding of Risk at National University of Singapore, and Sense about Science, UK

[In Korean – First or Lead Author]

Diversifying Career Paths of Women in Science and Technology, KAST Research Report	2021
142, Commissioned by Korea Academy of Science and Technology (54 pages)	
Understanding and Improving the Economic Status of Young Scientists and Engineers	2021
(132 pages), Report commissioned by Korea Institute for S&T Evaluation and Planning	
Proposal for Strengthening the Career Ladder of Women in Science and Technology	2020
(Lead Author), KAST Research Report 135, Commissioned by Korea Academy of	
Science and Technology (70 pages)	
Manufacturing Innovation by X, KAIST Intramural Policy Project Report (213 pages)	2019
New Approaches to Feasibility Assessment of Bottom-up (Open Competition) R&D	2018
Programs (128 pages), Report commissioned by Korea Institute for S&T Evaluation and	
Planning	
A Study of Technology Roadmaps based on the Time Series Analysis of Emerging	2018
Technologies, Report commissioned by the National Research Foundation (290 pages)	
A Study of the Current Status of Graduate Student Rights and Reforms, Report	2018
commissioned by the Ministry of Education (213 pages)	
A Proposal for the Establishment of the KAIST Future Strategy Institute, Intramural Policy	2018
Report (91 pages)	
Current States and Issues of Graduate Research Assistantship Policy, Report	2016
commissioned by the KAIST Research Affairs Division (189 pages)	

Evidence-based Appraisal of the Program for Women Returners to R&D, Report for the Korea Advanced Institute for Women in Science, Engineering, and Technology (276 pages)	2016
A Feasibility Study for the Establishment of Kenya Advanced Institute for Science and Technology, Feasibility Report for the Korea Eximbank (464 pages) [in English]	2015
A Framework for Derivation of Strategic Basic Research Areas, Issue Report for the National Research Foundation (55 pages)	2015
Current Status of Women in National R&D Programs and Policy Recommendations, Issue Report for the Center for Women in Science, Engineering, and Technology (32 pages)	2015
Concepts and Methods for "Policy Evaluation" in the Area of Science and Technology, Report for the Korea Institute of S&T Evaluation and Planning (101 pages)	2015
Technology and Policy for Preventing Smart Media Overindulgence, Issue Report for the National Information Society Agency (56 pages)	2015
Concepts and Methodologies for Strategic Basic Research, Issue Paper for the National Research Foundation (54 pages)	2014
Theoretical and Methodological Issues in Identifying "Strategic Research Areas" for Basic Research, Report for the National Research Foundation (313 pages)	2013
Valuing Challenges and Measuring Social Impacts of Publicly Funded R&D, Report for the Korea Institute of S&T Evaluation and Planning (156 pages)	2013
Towards A Paradigm Shift to Qualitative Evaluation of Public R&D, Report for Korea Institute of S&T Evaluation and Planning (123 pages)	2012
A Planning Study of the White Paper on Korean Women in Science & Technology, Report for Korea Advanced Institute of Women in Science, Engineering, and Technology (109 pages)	2010
[In Korean - Section Lead Author]	
Desirable Governance System for Space Exploration in Korea, Korea Academy of Science and Technology (85 pages)	2023
Rebuilding the National Innovation Ecosystem with Greater Participation of Women Scientists and Engineers, Korea Academy of Science and Technology (48 pages)	2021
Current Trends and Prospects of Science of Science Policy, Korea Institute of S&T Evaluation and Planning (124 pages)	2014
Technological Convergence for Social Disease Prevention, KAIST College of Culture Science (276 pages)	2013
A Planning Study of the National Security System Institute, KAIST College of Information Science & Technology (131 pages)	2012
New Risk Society and Technology Assessment, Korea Institute of S&T Evaluation and Planning (136 pages)	2011
Korea's Science & Technology Vision 2040, Ministry of Education, Science and Technology (325 pages)	2010

Other Publications

	"Current Status of Women Technical Workforce in the Semiconductor Sector in Korea,"	2022
	Issue Brief 11, Korea Federation of Women's Science and Technology Associations	
	(KOFWST) [in Korean]	
	"Science Advising: What Questions and Answers Do Sciences Pose for Policymakers?"	2021
	Science and Technology 41-44, Korea Federation of Science and Technology Societies	
	(KOFST) [in Korean]	
	"The Fourth Industrial Revolution: A New Endless Frontier," Asia-Pacific Tech Monitor,	2020
	Jul-Sep (with Cornelius Kalenzi and Sang Yup Lee), UN Economic and Social	
	Commission for Asia and the Pacific [in English]	
	"Improving the Status of Early Career Women in Science and Technology," Issue Brief 8,	2020
	Korea Federation of Women's Science and Technology Associations (KOFWST)	
	"Status of Women Project Investigators of the National R&D Programs," Issue Brief 7,	2020
	KOFWST [in Korean]	
	"Convergence S&T ODA: The Case of Kenya KAIST Establishment," Future Horizon	2020
	45: 65~69, Science & Technology Policy Institute (STEPI) [in Korean]	
	"Work-Life Balance for All in Science and Technology," Issue Brief 5, KOFWST [in	2019
	Korean]	
	"Current Status of Senior Women in Science and Technology and Policy Proposal," Issue	2018
	Brief 2, KOFWST [in Korean]	
	"Enhancing Human Rights of Young Scientists and Engineers," KAST Issue Paper (Lead	2018
	Author), Commissioned by Korea Academy of Science and Technology [in Korean]	
	"R&D to Integrate S&T into Local Society," Report for the Development of New Policy	2017
	for Social Integration, Daejeon-Sejong Research Institute [in Korean]	
	"Key Issues of Korean S&T Policy," See & Future, Center for Future Studies, KAIST	2016
	"Digital Parenting: How to Live with Teens and Technologies," Seoul Broadcasting	2015
	Station (with Yeong Yim Doh, Dongman Lee, and Wonjae Lee) [in Korean]	
	Community Policing in Chicago at Year Ten: An Evaluation of Chicago's Alternative	2004
	Policing Strategy, Chicago Community Policing Evaluation Consortium (Contributing	
	Author) [in English]	
	"Statistical Analysis of Time-Series Data on Problem Solving," Institute for Policy	2003
	Research Paper Series 27, Northwestern University (with Wesley Skogan) [in English]	
]	Miscellaneous Writings	
	"How to Represent Science in Politics?" <i>IBS Research</i> (English Edition), July	2020
	"What Money Can't Buy for Research" Korea Science Journalists Association Magazine,	2020
	No. 47, June [in Korean]	
	"Birds Fly, Fish Swim, and Humans Run," Preface for the Korean translation of <i>Endure</i> :	2017
	Mind, Body, and the Curiously Elastic Limits of Human Performance by Alex Hutchinson,	
	HarperCollins [in Korean]	
	"Legitimacy and the Use of Expertise for Global Problems," <i>Global Literature</i> (Literary	2015
	Magazine) [in Korean]	

RESEARCH GRANTS

Principal Investigator

Understanding and Improving the Economic Conditions of Young Scientists and Engineers, Ministry of Science and ICT (KRW 50 million)	2020
A Study of Inclusive Growth through Artificial Intelligence and Blockchain, Ministry of Science and ICT (KRW 1.7 billion per year)	2019~ongoing
<i>Project MIX (Manufacturing Innovation by X)</i> , K-Industry 4.0, KAIST (KRW 20 million)	2019
New Approaches to Feasibility Assessment of Bottom-up R&D Programs, Korea Institute for S&T Evaluation and Planning (KRW 30 million)	2018
A Proposal for Improvement of the Current Science Awards System with Its Comprehensive Assessment in South Korea, National Research Foundation (KRW 30 million)	2018
A Proposal for Improving the Technical Research Personnel Policy, KAIST Office of Student Affairs (KRW 20 million)	2018
Current Status of Graduate Student Rights and Reforms, Ministry of Education (KRW20 million)	2017~18
A Study of Future Technology Roadmaps based on the Time Series Analysis of Technologies, Korea National Research Foundation (KRW 70 million)	2017~18
Grant for Education of Professionals in Science & Technology Policy funded by Korean Federation of Science & Technology Societies (KRW 20 million)	2017
Social Risks of the Key Technologies Driving Fourth Industrial Revolution, KAIST Office of Research Affairs (KRW 40 million)	2017
Graduate Research Assistantship Policy Reform, KAIST Office of Research Affairs, (KRW 30 million)	2016
Evidence-based Appraisal of the Program for Women Returners to Research & Development, Ministry of Science & ICT (then Ministry of Science, ICT and Future Planning), Center for Women in Science, Engineering, and Technology (WISET) (KRW 30 million)	2016
Conceptual and Methodological Issues of "Policy" Evaluation in S&T Policy, Korea Institute for Science & Technology Evaluation and Planning (KRW 20 million)	2015
A Design of A Multi-stakeholder System for Participatory Governance of Social Conflicts in A Digital Age (Year Two), KAIST College of Liberal Arts & Convergence Science (KRW 50 million)	2014

Identifying and Planning for Strategic Research Areas in Basic Research, Korea National Research Foundation (KRW 70 million)	2013~14
A Design of A Multi-stakeholder System for Participatory Governance of Social Conflicts in A Digital Age (Year One), KAIST College of Culture Science (KRW 50 million)	2013
Valuing Challenges and Measuring Social Impacts of Public R&D Programs, Korea Institute for Science & Technology Evaluation and Planning (KRW 50 million)	2013
Towards a Paradigm Shift to Qualitative Evaluation of Public R&D, Korea Institute for Science & Technology Evaluation and Planning (KRW 20 million)	2012
White Paper Project on Korean Women Scientists and Engineers, Korea Advanced Institute for Women in Science, Engineering, and Technology (KRW 10 million)	2011
A Design of Educational Programs for Female Students in Science, Korea Research Foundation (KRW 30 million)	2008~09
Morrow Fund for Faculty Research, Florida Atlantic University (\$3,000)	2006
Writing Across the Curriculum (WAC) Development Grant, Florida Atlantic University (\$2,500)	2005

Co-Researcher KRW1,000=US\$0.95

Evaluation of Science Advice in a Pandemic Emergency (EScAPE) Project, US National Science Foundation Rapid Response Research (RAPID) Grant (PI: Roger Pielke, Jr.)	2020
Strategy to Attract Students of Southeast Asian Countries to S&T Universities, Ministry of Science and ICT (PI: Kyung-Ryul Park), KRW 40 million	2019
Nuclear Safety, Security, Nonproliferation Personnel Training Program, National Research Foundation (PI: Man-Sung Yim), KRW 300 million	2019
A Policy for Collaborative Lab Design, KAIST (PI: Hongjin Kong), KRW 20 million	2017
Estimating Regional Impacts and Creating Collaborative Networks for the Institute of Basic Science (IBS), Institute for Basic Science (PI: Yoon Jung Lee), KRW 50 million	2015~16
Police Vision & Roadmaps, Korean National Police University (PI: Chun-Taek Lim), KRW 40 million	2015
Feasibility Study for Kenya Advanced Institute of Science & Technology funded by the Korea Exim Bank, Consortium of KAIST and SAMOO Architects & Engineers (PI: Soo-Young Lee/Hak-Sung Kim), KRW 400 million	2014~15
Professional Master in Science – Advanced Program funded by the Korea Special R&D District Foundation (PI: Buhm Soon Park), KRW 660 million	2014~15
System Development for Nuclear Transparency and Nuclear Security Evaluation funded by Nuclear Safety Commission (PI: Man-Sung Yim), KRW 350 million for the first year and KRW 1.7 billion for the next 4 years	2013~18

National Certification of Science and Technology Objects: Feasibility Study and Implementation funded by Korea Science Museum (PI: Chihyung Jeon), KRW 30 million	2013~14
Daejeon as a Laboratory for Science Culture funded by Korea Foundation for Science and Creativity (PI: Chihyung Jeon), KRW 60 million	
Recent Trends in Science of Science Policy and Their Implications for Planning Further Development of K2Base System, funded by Korea Institute for S&T Evaluation and Planning (PI: Gouk Tae Kim), KRW 20 million	2013
Grant for Producing Professionals in Science & Technology Policy funded by Korean Federation of Science & Technology Societies (PI: Buhm Soon Park), KRW 100 million for the first year and annual KRW 200 million for the next 3 years	2011~14
Project Planning for the Establishment of the National Security System Institute, KAIST Information Communication College (PI: Jong-Hwan Kim), KRW 120 million	2011~14
A Policy Proposal to Enhance the Effectiveness of Technology Assessment in "New Risk Society" funded by Korea Institute for S&T Evaluation and Planning (PI: Buhm Soon Park), KRW 60 million	2011
INDUSTRIAL FUNDING	
Principal Manager	
K-Smart Education, Jincheon County, KRW 360 million	2022
Shinsegae Science Museum (Nexperium) R&D Project, KRW 477 million	2021~22
Shinsegae Science Museum Planning & Design Project, KRW 473 million	2019~21
LG Science Hall Science Education, KRW 627 million	2018~20
LG Multicultural School Science Education Consulting, KRW 820 million	2018~22
Busan LG Science Hall Renewal Planning Project, KRW 65 million	2018~19
PRESENTATIONS	
Keynotes/Invited Talks [International or In English]	
"Upgrading the National Innovation System for National and Global Impact: South Korean Experience," Scaling for Impact, WHO Innovation Forum, Online	April 22, 2022
"A Political Scientist's Adventures in the Wonderland of Science and Technology," Invited Talk for the Illinois Institute of Technology, Online	February 17, 2022
"Pent-up Innovations: Technologies and Regulatory Challenges in the Pandemic Era," Eastern Economic Forum, Ministry of Foreign Affairs, Russian Federation, Online	July 2, 2021

"Asian Values and Technology Leadership," Invited Speech for the Virtual Roundtable on "Asianism Retold: Asian Values and Global Leadership," Harvard University ASH Center for Democratic Governance and Innovation, Online	March 12, 2021
"Roles of the Fourth Industrial Revolution for Inclusive Growth during the Pandemic," International Conference to Combat the COVID-19 Pandemic, UN ESCAP & Chinese Ministry of Science and Technology, Online	December 1, 2020
"Not Just More but Better: Advancing Women in STEM in ROK," Women's Leadership in STEP, Summit on Women's Leadership in STEM, Asia Foundation, Online	October 21, 2020
"A Sticky Pipeline: Why So Few Women at the Top?", Invited Talk for Advancing Science and Inclusive Career Pathways in Sustainability-related Emerging Research and Innovation Fields, Gender Summit 19, Online	August 20, 2020
"Two Faces of the Fourth Industrial Revolution: Gender, Technology, and Inclusive Growth," Invited Speech for the Webinar "Making the Fourth Industrial Revolution Work for All" of the Webinar Series <i>Inclusive and Sustainable Industrial Development in the Age of the Fourth Industrial Revolution</i> , United Nations Industrial Development Organization (UNIDO), Online	September 10, 2020
"Future of Work Challenges: Co-Designing Technology and Policy in the Era of the Fourth Industrial Revolution," Asian Approaches to Development Cooperation, Asia Foundation, Seoul	October 28, 2019
"Still Fixing Numbers: Why is the Pipeline Still Leaking?" Science Policy Forum, International Brain Research Organization (IBRO) Women World Neuroscience, Daegu	September 23, 2019
"From Minority to Diversity: Contextualizing Gendered Innovation," Keynote Speech, Gender Forum, Nazarbayev University, Kazakhstan	June 13, 2019
"Co-Designing Policy and Technology for High-Risk Technologies in the Fourth Industrial Revolution," Invited Lecture, Institute for Public Understanding of Risk, National University of Singapore	June 6, 2019
"Back to the Basics: Nurturing Creativity for Future S&T Generations in the Age of the Fourth Industrial Revolution," World Bank Forum on Enhancing Job Creation and Skills for the 4 th Industrial Revolution co-hosted by the Ministry of Employment and Labor of the Republic of Korea, Seoul	November 7, 2017
"Roles of S&T-driven Universities in Fast-track Modernization in Developing Countries: The KAIST Model," Partnerships for Skills in Applied Sciences, Engineering and Technology (PASET) Regional Benchmarking Capacity Building Workshop sponsored by the World Bank, Abuja, Nigeria	June 15, 2016
"Kenya KAIST Feasibility Study: Implications for Science-based ODA," Korea-Kenya Science and ICT Collaboration Workshop, Nairobi, Kenya	May 31, 2016

Prominent Forum/Panel Speaker Invitations [International]

Towards a Philosophical Compass – An Anticipatory Dialogue about Moving Landscapes in the Humanities and Social Sciences, Geneva Science Diplomacy Anticipator (GESDA), Geneva (Invitation-only global expert workshop)	June 7-8, 2022
Panel on Universities as Drivers of Responsible Innovation, THE Innovation and Impact Summit 2022, Stockholm	April 26-28, 2022
Panel on "Evolving advisory processes, roles and responsibilities of scientific advisors," OECD Global Science Forum, Online	February 24, 2022
Special Session on Inclusive and Sustainable Industrial Recovery through Digital Transformation," 8th European Conference on Corporate R&D and Innovation, UN Industrial Development Organization (UNIDO), Online	November 24, 2021
Keynotes/Invited Talks [Domestic]	
"Communication So Special: Nuclear Risk Communication and Experts," 20 th Anniversary Conference of the Korea Radioactive Waste Society, Busan	June 1, 2023
"Measuring the Distance of the Nobel Prize and Women Scientists," 207 th KAST Roundtable, Korea Academy of Science and Technology	March 15, 2023
"US-China Tech Rivalry and Developing Countries," IFANS-STEPI Conference, Seoul	November 4, 2022
"How to Fail Properly?" KAIST Center for Ambitious Failure, Daejeon	November 3, 2022
"Digital Platform Government and Governance: The South Korean Case," KAIST-NYU Digital Governance Forum, Seoul	October 28, 2022
"Utility of "Useless Basic Science? Policy Trilemma of Basic Science," KAOS Lecture, Celebration Ceremony for the International Year of Basic Sciences, Ministry of Education, Sejong	August 21, 2022
"A Tale of Two Diplomacies & the Rise of Great Tech Politics," MOFAST Club Forum, Ministry of Foreign Affairs, Seoul	April 8, 2022
"AI Guide for the Healthcare Sector," I-Forum, 21st Anniversary Forum of I-News, Seoul (Hybrid)	November 2, 2021
"Trends of Non-Contact Technologies for the Tourism Sector," 10 th Gyeongbuk Tourism and Culture Symposium, Gyeongju	June 24, 2021
"Decent Work in the Platform Economy: The Korean Case," KAIST STP-UN University Institute in Macau Collaborative International Seminar	April 21, 2021

"Emerging Technologies for Non-contact Society and Their Applications to the

Ministry of Culture, Sports and Tourism

Tourism Sector," International Tourism Collaboration Forum, OECD and Korean

November

25, 2020

"A Myth of So Few Women (to Hire or Promote) in S&T," Invited Talk, KWiSE	October 10,
Virtual Conference on Women Scientists in Society, Korean-American Women in Science & Engineering	2020
"Policy Proposals to Strengthen the Career Ladder for Women in Science & Technology," 167 th KAST Roundtable, Korea Academy of Science and Technology	September 8, 2020
"Trends and Issues of S&T Policy 2020," Invited Lecture, Korea Technology and Information Promotion Agency for SMEs	January 8, 2020
"Korea S&T Policy: Discourses and Phenomena," Invited Lecture, Korea Institute for Nuclear Nonproliferation and Control (KINAC)	July 11, 2019
"Cases of New Regional Business Creation through Technological Innovation," Kimcheon R&D Innovation Symposium, Kimcheon City	June 19, 2019
"The Moon and the Mule: Dilemmas and Tradeoffs in National R&D Commitment," S&T Biz Colloquium, School of Business and Technology Management, KAIST	March 13, 2019
"How Science Goes Wrong," Departmental Workshop, Graduate School of Medical Science and Engineering, KAIST	February 13, 2019
"Co-Designing Policy and Technology for Artificial Intelligence," AI+X Forum, School of Computing, KAIST	January 17, 2019
"Population Change and Female Economic Participation in South Korea," Korea-Germany Forum (KDG), Daejeon	October 25, 2018
"Fourth Industrial Revolution in the South Korean Context," Global Korean Studies Forum, Sogang University, Seoul	July 14, 2018
"Can We Have AI Public Servants?" Jung-gu District Office of Daegu Metropolitan City	May 25, 2018
"Revisiting the Discourse on the Fourth Industrial Revolution: Co-Designing of Technology-Economy-Society," Korea Society for Innovation Management & Economics, Daejeon	February 2, 2018
"Upgrading Policies for Women in Science and Technology in South Korea," 119 th Korea Academy of S&T Roundtable, Korea Academy of Science & Technology, Seoul	November 28, 2017
"How to Evaluate A Research Process for Researcher-Centric R&D Evaluation," 100- Minute Discussion, KISTEP, Seoul	October 25, 2017
"Re-thinking the Fourth Industrial Revolution: Inclusive Growth and R&D in the Techno-Human Interface," International Conference of Women Scientists and Engineers (BIEN), Seoul	August 31, 2017
"Fundamental Asymmetries and Incentive Designs for Public R&D Evaluation," 3 rd Asian Innovation Forum, KISTEP, Seoul	August 29, 2017
"What Does the Fourth Industrial Revolution Mean to Us?" Sebasi Public Lecture, Daedeok Innopolis Foundation, Daejeon	August 9, 2017

"Policy for Science, Science for Policy," Special Talk for Career Development, Global Institute for Gifted Education, Daejeon	July 12, 2017
"Government Sponsorship of Science & Technology and the Challenges of the Fourth Industrial Revolution," Science-Gifted Education Forum, Korea Science Academy, Busan	June 20, 2017
"Agenda for Science & Technology Policy for the Next Presidency: An Academic Perspective," Association for National Research Institutes (SEANRI), Daejeon	April 26, 2017
"Renewable Energy in South Korea" (with Inkyoung Sun), NTNU Japan Seminar, Norwegian University of Science and Technology, Tokyo	March 6, 2017
"Nature of High-Risk/High-Return Research," Project Management Office, National Research Council of Science & Technology, Sejong City	February 1, 2017
"For Whom the Money Goes: Duality of Research and Education in S&T Labs," Korean Research Institute of Chemical Technology, Daejeon	December 22, 2016
"Dilemma between Research Autonomy and Management Expertise in National R&D Funding System," National Assembly Seminar on S&T Reform, Seoul	November 30, 2016
"Rigor vs. Insight: Challenges and Dilemmas for Interdisciplinary Education," Creative Interdisciplinary Education Workshop, UNIST, Ulsan	November, 18, 2016
"The Social Responsibility of Science and Scientists," Chiak High School, Wonju	October 12, 2016
"Mobilizing Science and Technology for Development," Global Saemaul Forum sponsored by KOICA, Gyeongju	June 29, 2016
"Living, Loving and Learning through Dilemmas," Special Lecture for Female Graduate Students, School of Electrical Engineering, KAIST	August 3, 2016
"Revisiting the Audit for National R&D: From the Institutional, Behavioral, and Cultural Perspectives," Government Research Institute Auditors' Association, Daejeon	July 12, 2016
"The Fourth Industrial Revolution and National Strategies," Peace Foundation Members' Workshop, Gapyeong	June 24, 2016
"Science and Culture," MuST (Music & Science Talk), Korea Nazarene University (televised by YTN Science), Cheonan	May 17, 2016
"Current States and Issues of Technology Assessment in Korea," Science & Technology Policy Institute (STEPI), Sejong	April 12, 2016
"Transforming R&D Evaluation Schemes for High-Risk High-Return Research," Agency for Defense Development (ADD), Daejeon	February 23, 2016
"Concepts and Methods for Policy Evaluation in S&T Policy," KISTEP Forum on Government R&D, Seoul	October 16, 2015
"The Long-Term Policy Roadmap for Korean Women Scientists and Engineers," Gender Summit Asia-Pacific, Seoul	August 27,

"Topology of Policy Measures to Prevent Smart Device Addiction," Seoul Digital Forum, Seoul Broadcasting Station, Seoul,	May 6, 2015
"Qualitative R&D Evaluation: Concepts and Measures," R&D Feasibility Analysis Division Workshop, KISTEP	April 23, 2015
"Evaluating the Risk and Challenges of Government R&D," Wednesday Forum, KISTEP	December 10, 2014
"Future Strategies and Political Institutions," Public Hearing for National Future Strategies, Graduate School of Future Strategies, KAIST	October 7, 2014
"Public R&D Funding and Evaluation Designs," Joint Workshop of the University of Science and Technology and the Korean Research Institute of Chemical Technology (KRICT), Daejeon	August 14, 2014
"A Policy Roadmap for Women in Science and Technology," Public Hearing on the Policy Roadmap for Women in S&T prepared by the Ministry of Science, ICT, and Future Planning and the Korean Women Science & Technology Associations	July 16, 2014
"Political Economy of Basic Science: Autonomy, Accountability, and Asymmetry of Information," Spring Colloquium, Program in History and Philosophy of Science, Seoul National University	March 28, 2014
"Long-term Plan for Korean Women Organizations in S&T," Forum for Career Women in S&T, Korea Federation of Women Science & Technology Association	February 27, 2014
"Conceptual and Methodological Issues in Basic Science Evaluation," First Institute for Basic Science (IBS) Research Conference	November 28, 2013
"Recent Trends in Korean Policy for Women S&T Workforce," Faculty Workshop, Gunsan University, Gunsan	November 21, 2013
Invited Observer for the "Empirical Foundations of Science of Science and Innovation Policy," Center for the Science of Science and Innovation Policy, French Department of Higher Education and Research, Paris	September 16-17, 2013
"Change and Continuity in Policy for Women in Science & Engineering in Korea and Abroad," Bio, Information, Environment/Energy and Nano Technolog (BIEN) International Conference of Women Scientists and Engineers	August 23, 2013
"Contending Rationales for Government Funding for Nanoscale Science and Technology in Asian Countries," 12th Nano Korea Symposium	August 18, 2012
"Women's Career in Science & Technology," Kangwon Center for Women in Science, Engineering, and Technology	May 25, 2013
"Living, Learning, and Leading through Dilemmas," Next Generation Leaders Forum, University of Science & Technology, Daejeon	November 30, 2012
"Working in International Organizations," Career and Leadership for Women, Yonsei University	August 13, 2012

"Do We Need a Nobel Prize?" Songchon High School, Daejeon	Nov 18, 2011
"Voluntary Exile in the Digital Age," International Conference for the Integration of Science and Technology into Society (ICISTS), KAIST	August 2, 2011
"From a Divide to a Detour: Meanings and Practices of Convergence of Science and Technology with Humanities and Social Sciences," 22nd International Youth Forum, Seoul, Ministry of Gender Equality and Family	April 20, 2011
"Nobel Laureates in Sciences," Shintanjin High School, Daejeon	April 1, 2011
"National Policy for Interdisciplinary Collaborations between Science/Technology and Humanities/Social Sciences," Science & Technology Policy Forum, Korea Institute for S&T Evaluation and Planning (KISTEP)	September 16, 2010
"Nobel Prize Winners I Have Met," LG English Science Camp for Science-Gifted Children, LG Science Hall	January 13, 2010
"Sustainability and Science & Technology Policy," Winter Camp for Science-Gifted Children, Global Institute for Talented Education, KAIST	January 5, 2010
"Korean Culture, History, and Language," 2008 Asia-Pacific Summer School on Smart Structures Technology, KAIST	August 11- 12, 2008
"Women in Science and Technology in the Age of Globalization," Jeju National University	Feb 4, 2010
"Sincerity and Intensity of Global Environmental Support," Civil and Environmental Engineering Department, KAIST	January 16, 2008

PROFESSIONAL ACTIVITIES

Professional Membership

American Political Science Association (Science, Technology and Environmental Politics Section and Public Policy Section), Association for Public Policy & Management, International Studies Association, Association for Asian Studies, Triple Helix Association, Korean Political Science Association, Association of Korean Political Studies, Korea Society for Innovation Management & Economics, Korea Technology **Innovation Society**

Peer Reviewing

SCI/SSCI American Political Science Review, International Organization, International Studies Journals Quarterly, International Political Science Review, Journal of East Asian Studies, Review of International Political Economy, Climate Change, Comparative Political Studies, Journal of Public Policy, Public Administration Review, Technological Forecasting and Social Change, Review of Policy Research, Social Science Journal,

Environments, Quality & Quantity, Scientometrics, Environments, Asian Women, East

Asian Journal of Science, Technology, and Society, Oxford Review of Education

Other Journal of Area and International Studies, Korean Political Science Review, ,

Journals Education & Culture Research, Korean Regional Politics Review, South African

Journal of Education, Korean Journal of International Affairs

Conference/Forum Roles

Panelist, Session on Transitioning – Leveraging Innovation and Technology for Sustainable Development, Difference Maker: Financing for Future, Innovation for Growth, World Bank FCI Seoul Center, Seoul, May 23, 2023

Moderator, Digital Innovation Session, Global Innovative Growth Forum (GIGF), Ministry of Economy and Finance and the World Bank, December 9, 2020

Chair, International Conference on Ethics of the Intelligent Information Society, Korea Communications Commission and Korea Information Society Development Institute (KISDI), December 5, 2019

Program Committee Member, Atlanta Conference for Science and Innovation, Atlanta, October 9-11, 2017

Chair of the Scientific Program, 15th Triple Helix International Conference, Daegu, September 14-16, 2017

Discussant, Spring Conference of the Korea Science & Technology Studies Association, Gangneung, May 27-28, 2016

Moderator, Kyung Hee University International Conference on Science and Social Responsibilities, Seoul, March 25-26, 2016

Program Committee Member, Atlanta Conference for Science and Innovation, Atlanta, September 17-19, 2015

Program Committee Member & Session Chair, Atlanta Conference for Science and Innovation, Atlanta, September 26-28, 2013

Organizer & Discussant, International R&D Evaluation Forum, Seoul, Korea Institute of S&T Evaluation and Planning and KAIST, June 8, 2013

Chair for the Panel on *Accelerating Innovation*, Annual Conference of the Association for Public Policy Analysis and Management (APPAM), Baltimore, November 8-10, 2012

Chair for the Panel on *Rethinking Expertise and Democracy*, International Conference on Linking STS and Social Sciences. Center for Social Sciences, Seoul National University, Seoul, October 28-29, 2011

Discussant for the Panel on *Comparative Politics of Science & Technology*, Annual Meeting of the American Political Science Association (APSA), Seattle, September 1-5, 2011

Discussant for the Panel on the *Global Governance of Transnational Knowledge: Experiences from Research and Higher Education*, Annual Convention of the International Studies Association (ISA), Montreal, March 16-19, 2011

Discussant for the Panel on *Political Behavior, Biology, and Genetics*, Annual Meeting of the International Society of Political Psychology, San Francisco, July 7-10, 2010

Discussant for the Panel on *Adapting to or Avoiding Doomsday: Dealing with Climate Change*, Annual Meeting of the American Political Science Association, Toronto, Sept 3-6, 2009

Session Chair for the International Workshop on EEWS 2008 – Energy, Environment, Water, and Sustainability: Challenge as Opportunity, KAIST, September 9, 2008

Chair and Discussant for the Panel on *Economics and Interstate Conflict*, Annual Meeting of the Southern Political Science Association, New Orleans, January 5-7, 2007

Chair and Discussant for the Panel on *New Insights on Globalization*, Annual Meeting of the American Political Science Association, Philadelphia, August 31-September 3, 2006

Chair and Discussant for the Panel on *Globalization and Problems of Development*, Annual Convention of the International Studies Association, San Diego, March 23-26, 2006

Discussant for the Panel on *Political Sources of Financial Market Development*, Annual Meeting of the Midwest Political Science Association, Chicago, April 15-18, 2004

TEACHING

COURSES

[Course Evaluation at KAIST: 2007~2014 (before tenure) – Graduate: 4.35/4.5, Undergraduate 4.10/4.5, 2015~2022 (after tenure) - Graduate - 4.29/4.5, Undergraduate - 4.32/4.5]

KAIST Graduate School of S&T Policy (2009~) & Undergraduate Minor Program (2011~)	Survey in Science, Technology, and Public Policy (mandatory graduate course), Science & Technology Policy (mandatory undergraduate course), Quantitative Public Policy Analysis, Political Economy of Science & Technology, Science of Science Policy, National Innovation System, Power vs. Choice, Policy Design & Practice, Governing Global Risks, National Innovation System
KAIST College of Business (2021~)	Energy Industries and R&D Policy
KAIST Graduate School of Future Strategy (2011~2021)	Science and Technology Policy
KAIST Green Business and Policy MS Program (2021~)	Energy Industry and R&D Policy

KAIST School of Introduction to Political Science, Introduction to World Affairs, Humanities & Social Understanding Globalization, Public Policy, Sustainability: Agenda Sciences (2007~09, 2017) and Prospects, Political Economy of Climate Change, Freshmen Design Course (mandatory course for all KAIST freshmen) Georgia Institute of Governing Global Risks Technology (2012) Florida Atlantic University Graduate Seminar in Research Methods, International Political (2004-2006)Economy, International System, Globalization, Comparative Politics Northwestern University Environment, Science, and Society, Politics and Markets, Politics of (1999-2002, summer 2009, the Global Economy, Introduction to Comparative Politics

ADVISING

summer 2010)

PhD

• Seorim Lee (Korean Space Policy/KARI), Inkyoung Sun (Energy Innovation & International S&T Collaboration /STEPI)

Doctoral Students

- Ohsung Ahn (Aerospace Policy), Sun Woong Kim (Biopharmaceutical Industry and Startups), Seolmin Yang (Research Policy)*, Dongjoon Lee (Energy and Innovation), Joonhyeok Park (Blockchain Policy)**, Hyejeong Koo (Military S&T Innovation), Joonho Lee (R&D Policy), Daeun Lee (Technological Sovereignty), Seunghoon Yang (Manufacturing Innovation), Yena Chae (Energy Policy), Jisoo Woo (Women in S&T Policy)
 - * NRF Dissertation Fellowship; Emerging Scholar Award of Organizational Studies; STEPI Fellowship; Best Paper Award of the 30th Anniversary Conference of the Korea Society of Innovation Management & Economics
 - ** Best Paper Award of the Korea Academic Society of Business Administration

Master's Students

- [Graduate School of S&T Policy] Graduated Seah Kim (IPCC as international Scientific Advisory Institution), Seungmi Chung (Satellite Development and Korean Space Policy), Yoonhoo Kim (Politics of Display in Science Museums, Co-Advisor: Mina Park), Kihyun Kim (Agenda-setting of Nuclear R&D Policy: Policy Entrepreneurship in Pyroprocessing Technology Development), Dae In Park (Brain Drain Policy Design), Heonjun Park (Big Science Funding), Seolmin Yang (University Lab Performance), In Keon Lee (Innovation and Employment), Bitna Lee (Nuclear Policy), Jisoo Woo (Women in S&T Policy) / Current Kseniya Pirnavskaya (Nuclear Policy), Jieun Lee (Ocean Science Policy), Moonyul Yang (Military Innovation)
- [Graduate School of Future Strategy] Graduated Byung Chul Lee (Environmental Management of Public vs. Private Enterprises), Byungryul Park (Economic Analysis of Episodes of Cinema &

Literature), Sungjoon Yoon (Broadcasting Technology ODA), Yongeun Kim (Science & Culture), Jeonghoon Lee (North Korean Missile Technology Development) / Current – Jeonghyun Pyon (SME Innovation), Hyojong Lee (Science Education)

Student Project Advising

KAIST Undergraduate Research Program

- A Study of Graduate Students' Knowledge and Attitudes towards Research Ethics, Spring 2019
- A Study of the Daedeok Science Town as a Community of Science Culture, Spring 2011
- A Study of KAIST's New Admission Policy: A Tentative Assessment of Its Effectiveness, Fall 2010
- International Organization Careers for S&T Workforce, Spring 2009
- Knowledge Intensity of Technologies and Global Inequality (won the Third Place in the final evaluation), Spring 2008
- An Empirical Analysis of Asian Values, Spring 2008
- An In-Depth Study of UN Organizations, Fall 2008
- Governing Emerging Technologies, Fall 2008

Independent Research Project

- Analyzing the "Policy Forum" of the Magazine Science, Fall 2015
- S&T Workforce in Small and Medium-sized Companies, Spring 2015
- Government R&D for Renewable Energy, Spring 2014
- Government as a Midwife for Technology Transfer, Spring 2014
- Health R&D Spending and Outcomes in Korea, Fall 2012
- Politics of Renewable Energy Investment, Spring 2012
- Visioning in Renewable Energy Policy, Fall 2012

Extramural Competition

- Global PhD Fellowship, 2018
- Asan Institute for Policy Studies Fellowship, Spring 2014
- LG Challenger Competition (Project on Korea's Overseas Development Assistance), Spring 2007

Internship Supervision

- S&T Policy Institute (2011~2013), Korea Institute of S&T Evaluation and Planning (2011, 2014), Korea Research Institute of Standards Science (2011, 2012), Korea Research Institute for Bioscience and Biotechnology (2013), Korea Science Museum (2013), Institute for Basic Science (2012), Daejeon Civic Observatory (2014)
- University of Waterloo Interns (2016, 2017, 2018)

SERVICE

DEPARTMENTAL & COLLEGE SERVICE

Head, Graduate School of S&T Policy	2015~2020
Director, Undergraduate Minor Program in S&T Policy	2011~2018
Chair, STP Faculty Search Committee	2011, 2012, 2016~2018
Department Chair Search Committee, Moonsul Graduate School of Future Strategy	2017
College Student Affairs Committee, College of Liberal Arts & Convergence Science	2016~
Promotion & Tenure Committee, College of Liberal Arts & Convergence Science	2015~
Promotion & Tenure Committee, Humanities and Social Sciences	2015~
Promotion & Tenure Committee, Graduate School of S&T Policy	2010~
Admissions Committee	2010~
Curriculum Committee, School of Humanities & Social Sciences	2008
Graduate Program Committee, Department of Political Science, Florida Atlantic University	2004~2006
UNIVERSITY SERVICE	
University Senate (평의원회) (Elected)	2022~
Vice-President, KAIST Faculty Council	2022~
Promotion & Tenure Committee, KAIST	2021~
Promotion & Tenure Committee, College of Business	2021~
President, KAIST Women Faculty Council	2021
University Human Rights Policy Committee	2020~
KAIST Presidential Recommendation Committee (총장후보추천위원회) (Elected)	2020
Chair, KAIST 50-Year History Committee (개교 50 년사 편찬위원장)	2019~02/2020
Manufacturing Big Data/AI/Supercomputing Center Planning Committee (제조빅데이터 AI 슈퍼컴퓨터 기획위원회)	2019~2020
Sungnam Myungdeok Science Park Planning Committee (성남 명덕 사이언스파크캠퍼스 추진위원회)	2019~2020
Meta-Convergence Building (KI II Building) Planning Committee (메타융합관기획위원회)	2019~2020
RED&B Evaluation Committee (RED&B 사업 선정평가위원회)	2019~2020
National Security Convergence Center Establishment Planning Committee (안보융합원설립준비위원회)	2019

Global Leadership Center Management Committee (글로벌리더십센터운영위원회)	2017~
KAIST International Institute for Nuclear Education and Emerging Technologies (KAI-NEET)	2017~
Information Technology Service Committee (정보기술위원회)	2017~2018
Promotion & Tenure Committee, Global Institute for Talented Education (과학영재교육연구원 인사위원회)	2017~
Faculty Club Management Committee (패컬티클럽 운영위원회)	2016~2018
International Development Collaboration Committee (국제개발협력위원회)	2015~2017
Government Program Budget Review Committee (출연금 사업관리위원회)	2014~2016
HAPPY-KAIST Planning Committee	2014
Biological Science Core Project Funding Committee (생명과학분야 중점사업추진위원회)	2014
Promotion & Tenure Committee, College of Liberal Arts and Convergence Science	2013~
Student Affairs Committee, College of Liberal Arts and Convergence Science	2013~2015
Vision 2025 Committee – Research Subcommittee	2013
Vision 2020 Committee – Research Division Secretary	2011
KAIST WE Center Committee (KAIST 위센터 추진위원회)	2010~2012
K12 Committee (KAIST 외국인학교 설립 추진위원회)	2009
University Public Relations Committee (홍보위원회)	2008
University Admissions Committee (학생선발위원회)	2007~2015
Asian Studies Committee, Florida Atlantic University	2004~2006
OFF-CAMPUS SERVICE	
Advisory Committee, S&T Diplomacy Committee, Ministry of Foreign Affairs (외교부 과학기술외교자문원회)	2021~
Advisory Committee, National Election Commission (중앙선거관리위원회)	2021~
Management Advisory Committee, LX (한국국토지리정보공사)	2021~
Seoul Forum for International Affairs (서울국제포럼)	
Ombudsperson, KEPCO (한국전력)	2021~
Editorial Board Member, Kyosu Shimun (교수신문)	2021~
Fiscal Policy Advisory Board, Ministry of Economy and Finance (기획재정부 재정정책자문회의)	2020~2021
Co-Chair, KOFST Annual Conference Organizing Committee (대한민국과학기술연차대회 공동조직위원장)	2020

Chairperson, Spent Fuel Policy Review Committee, Ministry of Trade, Industry and Energy (산업통상자원부 사용후핵연료정책재검토위원회 위원장)	2019~2021
Advisory Committee, Korea TV (한국정책방송 기획위원회)	2019~
Co-Chair, Science and Diplomacy Committee, Korea Federation of S&T Associations (한국과학기술단체총연합회 과학외교 공동위원장)	2019~2020
Satellite Information Service Promotion Committee, Ministry of Science and ICT (과학기술정보통신부 위성정보활용촉진위원회)	2019~2020
Curriculum Restructuring Committee, University of Science & Technology	2019~2020
Research Workforce Program Committee (한국연구재단인력양성사업 심의위원회), National Research Foundation	2018~2020
R&D Innovation Taskforce, Ministry of Science and ICT (과학기술정보통신부 연구개발제도혁신단)	2018
Evaluation Committee for Organizations under Jurisdiction, Ministry of Science and ICT (과학기술정보통신부 직할기관평가위원회)	2018
National R&D Program Evaluation Committee, Ministry of Science and ICT (과학기술정보통신부 국가연구개발사업종합심의위원회)	2018~2019
Future Planning Taskforce, Science & Technology Policy Institute (STEPI)	2018~2019
Co-Chair, Fourth Industrial Revolution Network, KOFST	2018~2019
Regular Columnist, Donga Ilbo	2018~2019
Advisory Board Member, Institute for the Public Understanding of Risk, National University of Singapore	2017~
Co-Chair, Fourth Industrial Revolution Network, KOFST	2017~2019
Faculty Recruitment Review Committee, University of Science & Technology	2017
University Gender Equality Committee, Ministry of Education (교육부학교원임용양성평등위원회, 3 연임 중)	2016~
Global Future Council on Technology, Values, and Policy, World Economic Forum	2016~2018
Editorial Advisor, <i>Science Times</i> , Korea Foundation for the Advancement of Science and Creativity (한국과학창의재단)	2016~2018
Advisory Committee for the Institute for Gendered Innovation Policy	2016
S-Mentor, Center for Women in Science, Engineering, and Technology (WISET – 한국여성과학기술인지원센터)	2016
Chair, Long-Term Planning Committee, KOFWST	2016~
Representative for the Choonchung Branch, Citizens' Coalition for Scientific Society	2016~2019
Regular Columnist, Kyunghyang Shinmun	2016

Regular Columnist, Daejeon Ilbo	2016
Member, Advisory Board, Daejeon Development Institute	2014~
Policy Advisor, Korea Federation of Women's Science & Technology	2014~
Associations	
Reviewer, Gender Impact Assessment for Government R&D Programs, Korea Women Development Institute	2014
Field Consulting for the Kyungbook Unit, Women in Science, Engineering, and Technology	2014
Member, Environment & Welfare Forum, Green Korea 21	2013~2015
Regular Columnist, Asia Economy Daily	2013~2016
External Reviewer for Faculty Recruitment, Hanshin University	2013
Member, R&D Program Evaluation Roundtable, Ministry of Science, ICT and Planning	2013
Reviewer for the White Paper on Korean Women in S&T Project, Women in Science, Engineering, and Technology	2013
Secretary, International Collaboration Committee, Korea Federation of Women's Science & Technology Association	2013
Program Committee Member, Atlanta Conference on Science and Innovation, Georgia Institute of Technology	2013
Governing Board Member, Asia-Pacific Political Science Association	2013
Editorial Board Member, <i>R&D InI</i> , Korea Institute of S&T Evaluation and Planning	2013
Co-Chair, Committee for Science & Society, Korea Federation of Women's Science & Technology Association	2012
Annual Evaluation Committee Member, World Class University Project (Humanities & Social Sciences Division), Ministry of Education, Science, and Technology	2011
Field Consulting for the Kangwon Unit, Women in Science, Engineering, and Technology	2011
External Relations Officer, Korean Political Science Association	2011
Program Assessment Committee Member, Women in Engineering (WIE) Program, Korea Research Foundation	2010
Policy Consulting, "2010 Local Election: Manifesto Election Initiative," Daejeon Broadcasting Corporation (TJB), Aired on May 16	2010
Program Assessment Committee Member, Women in Science & Technology (WIST) Program, Korea National Research Foundation	2010

Advisory Committee Member for the Five-Year (2011-15) Plan for Human Resources in Science & Technology, Ministry of Education, Science, and	2009~2010
Technology (교육과학기술부 2 차 과학기술인재육성지원기본계획 자문위원회)	
National Science & Technology Vision Committee, Ministry of Education, Science, and Technology (교육과학기술부 과학기술비전위원회)	2009~2010
Selection Committee Member, World Class University Project (Humanities & Social Sciences Division), Ministry of Education, Science, and Technology (교육과학기술부 WCU 사업 선정위원회)	2009
Planning Committee Member, 12th Plenary Meeting of the Limited Nuclear Free Zone for Northeast Asia	2008
Data Analyst, <i>Hispanic Churches in American Public Life Project</i> , Claremont McKenna College, CA	2003~2007

PERSONAL INFORMATION

Family: married, one daughter (26) and two sons (24, 23)

Hobbies: distance running, swimming, piano, biography reading, jigsaw-puzzle Languages: Korean (mother tongue), English (fluent), French (reading – fair)