

CURRICULUM VITAE

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Republic of Korea



EDUCATION

Seoul National University (SNU), History & Philosophy of Science, 2001

(Title of Doctoral Thesis) *The Special Loan Collection of Scientific Apparatus, 1876: The Beginning of the Science Museum of London and the Popularization of Physical Science.*

King's College London (KCL), History & Philosophy of Science and Mathematics, 1990

Seoul National University (SNU), Physics Education, 1987

Seoul National University (SNU), Advanced Industrial Strategy Programme, 2009

Gwangju Institute of Science & Technology (GIST), Climate Change Academy, 2016

APPOINTMENTS

2021-present: Professor, **Korea Institute of Energy Technology**,

2013–2021: Director, Gwangju National Science Museum

2016–2018: Adjunct Professor, Gwangju Institute of Science & Technology

2008–2013: Director, Korea Foundation for the Advancement of Science & Creativity

2006–2007: Science Specialist, Presidential Advisory Council on Science & Technology

2002–2006: Director, Korea Science Foundation

2001–2002: Post-doc, POSTECH

PUBLICATIONS (Books, Book Chapters, Translation)

- *Great Science Classics of the 20th Century*, (in press)
- “Nature is the great master”. In I. S. Lee et al. (Eds.) *The Time for Engineering*. Dasan Books: Seoul, (2019)
- *Feels-On Science, Misosa: Seoul (2018) (SEJONG Book Awardee)*
- “Public Communication of Science and Technology”, In R. Gunstone (Ed.) *Encyclopedia of Science Education*, 805-806, Springer: Dordrecht. https://doi.org/10.1007/978-94-007-2150-0_395 (2015)
- *Science Museums of the World, Sallim: Seoul (2015) (solo writing). (MOST Book Awardee)*
- “Curating the Future: the science museum for creativity and sustainability”. In Universitaires de Lorraine (Ed.) *Science Communication Today – 2015: Current Strategies and Means of Action*, 99-105, Presses Universitaires de Nancy: France (2015)

- *History of Science for High School*, Daegu Metropolitan Office of Education (2015)
- *When S. Jobs Reads W. Wordsworth*, Misosa: Seoul (2013) (MCST Book Award)
- “Experiences Innovantes de Culture Scientifique et D’éducation aux Sciences en Coree”. In *Partager la Science*, Actes Sud/IHEST: France (2013)
- *Science and Technology Culture: History and Practice of Communication*, Bookshill: Seoul (2012) (MCST Book Awardee)
- “An Experience of Science Communication the Space Sharing Project with Mass Media”. In B. Schiele, M. Clarence, & S. Shi (Eds.), *Science Communication in the World*, 169-179, Springer (2012)
- “Science Culture”. In Korean National Commission for UNESCO (Ed.) *A Decade of Dynamic Development in Science and Technology in the Republic of Korea, 2000-2009*, KNC-UNESCO: Seoul (2009)
- Exploring Policy for Science Culture in Korea through the Analysis of Core Programmes of ‘Science in Society’ of European Commission, *STEPI Policy Paper*, (2007)
- *The Patterns of Discovery*, Science Books: Seoul (2007)
- “Mistakes, but the Best Choices”. In KOFWST (Ed.) *Women Meet Science*. 349-354, Yangmoon: Seoul (2006)
- “Novel Festival”. In K. S. Lim, S. W. Lee, J. W., Shin, & S-K. Cho (Eds.) *The Nobel Prize*, 85-99, Hana Publishing: Seoul (2005)
- *Selkirk’s Island*, Donga Ilbo: Seoul (2004)
- *The Dating Game*, Bada Publishing: Seoul (2002) (MOST Book Awardee)
- *The Special Loan Collection of Scientific Apparatus, 1876: The Beginning of the Science Museum of London and the Popularization of Physical Science*. Unpublished Doctoral Thesis of Seoul National University (2001).
- “Scientific Revolution”. In KNUE Center for Science Education Research (Ed) *History of Science for Science High School*, 64-90, Korea National University of Edu., MOE (2000).
- *Historical Understanding of Science & Technology*, Kyungpook National University Press: Daegu (2000)
- *Man Master Nature*, Changbi: Seoul (1999)
- *Understanding of the History of Science*, Daegu University Press: Daegu (1998)

PUBLICATIONS (Peer-Reviewed Journals)

- How to Compare the Social Foundations of Science Culture: A trial with Five Cities in Korea, *Public Understanding of Science*, 21(1), 110-121 (2011)
- Science Culture Symposium by Korea, Japan and China at AAAS Annual Conference, *STEPI Science, Technology & Policy*, 183, 119-128 (2011)
- Developing the Indicator System for Diagnosing the National Status Quo of Science Culture, *Journal of the Korean Association for Research in Science Education*, 28(4), 316-330 (2008)
- Science Communication as a Practice of Science Culture, *Journal of Science & Technology Studies*, 7(1), 151-175 (2007)
- The Legacy of the 9th International Conference on the Public Communication of Science and Technology, *STEPI Science, Technology & Policy*, 162, 78-84 (2007)

- Yet Another Paradigm Shift? From Minds-on to Hearts-on, *Journal of the Korean Association for Research in Science Education*, 24(1), 129-145 (2004)
- A Survey of the Distribution of the Facilities Supporting Students' Out-of-School Science Activities and their Programs in Korea, *Journal of the Korean Association for Research in Science Education*, 24(1), 157-170 (2004)
- John Tyndall (1820-1894), Who Brought Physics and the Public Together, *Journal of the Korean Association for Research in Science Education*, 23(4), 419-429 (2003)
- The Meaning and Challenges of Science and Technology Culture, *STEPI Science, Technology & Policy*, 143, 29-39 (2003)
- Science Museums and Centers: Informal Science Education in Korea, *Japan Society for Science Education*, 17(2), 19-22 (2002)
- Practical Work in British School Science during the Second Half of the 19th Century, *Journal of the Korean Association for Research in Science Education*, 22(5), 970-990 (2002)
- T. H. Huxley as a Pioneer of British School Science Education: Focused on his life and activities, *Journal of the Korean Association for Research in Science Education*, 21(1), 38-58 (2001)
- Exploring the parallelism between change in students' conceptions and historical change in the concept of inertia, *Research in Science Education*, 27(1), 87-100 (1997)

PUBLICATIONS (Project Reports)

- *National Innovation System*, MOST (2008)
- *Science & Technology in Human History*, BH Presidential Report (2006)
- *Report on Science Expedition to China*, MOST (2005).
- *Korea-UK Women in Science*, MOST (2004).
- *A Survey of Science Culture Programs in Korea and Major Countries*, KBSI (2004).

PUBLICATIONS (Articles in Magazines, Newspapers, TV & Radio Broadcasting)

- Create Common Ground: PCST Rotterdam, Monthly Magazine, *Science and Technology*, 2023
- Thinking about Science Month through Charles Darwin , *Gwangju Dream*, 2023
- The Hidden Figures and the future of Chat GPT, *Gwangju Dream*, 2023
- The Dialogue between Science & Society: Science Communication, Quarterly Magazine, *Windows of The Korean Academy of Science and Technology*, 2022
- 3 Approaches to Survive Global Disasters, *ET Times*, 2022
- Energy Literacy: Essential Basis for Human Existence, *Gwangju Dream*, 2022
- Why do We Need Public Energy Literacy?, *Gwangju Dream*, 2022
- Christmas and the Legacy of Michael Faraday, *Gwangju Dream*, 2022
- The Great Show Must Goes On, *Crossroad*, 2020
- Hidden Figures and True leader, *Moodeungilbo*, 2018.
- Blue Jean, Summer Holiday and Science Culture, *Gwangju MBC*, 2018.
- World Great Cities Meet Science, 3 Part TV Documentary, *MBC & Gwangju MBC*, 2017.

- A Small Step, but a Great Leap, *Science & Technology*, 583, 49-51, 2017.
- Why City of Prague is Great? *Science & Technology*, 572, 98~99, 2017.
- The Characteristic of the Special Exhibition of 2030 Future City, *KBC*, 2017.
- Science meet Humanities, 605 Series of 15 Minutes Programme, *Gwangju MBC Radio*, 2015~2016.
- The Culture of Creativity: Individual or Community, *Science & Technology*, 570, 87-88, 2016.
- Time machine: Leonardo Da Vinci, *Science & Technology*, 568, 104-105, 2016.
- Mackerel, Fine Dust and PCST Movement, *Science & Technology*, 566, 98-99, 2016.
- Paradigm Theory and The Spotlight, *Science & Technology*, 564, 82-83, 2016.
- The Digi-logue Dream, *Science & Technology*, 562, 82-83, 2016.
- Two ways to Survive in Winterland, *Science & Technology*, 560, 96-97, 2016.
- World Great Cities and Great Science Museums, *YTN Science*, 2016.
- Let the People not to do Anything, *Science & Technology*, 558, 86-87, 2015.
- IT Advanced Country & Kingsman, *Science & Technology*, 556, 90-91, 2015.
- 3 Episode in Last Week, *KAIST CT Press*, 2011.
- The Success of Science Cultural Activities in Korea, *Science Times*, March, 10, 2010.
- Youth! Do have Dream, *The Seoul Newspaper*, 2010.
- Science Culture of Japan, *Women News*, June 1, 2007.
- Science Culture of United States, *Women News*, May 1, 2007.
- Science Culture of France, *Women News*, April, 20, 2007.
- Science Culture of Germany, *Women News*, March, 30, 2007.
- Science Culture of United Kingdom (2), *Women News*, March 9, 2007.
- Science Culture of United Kingdom (1), *Women News*, Feb., 16, 2007.
- Science Culture of Italy, *Women News*, Feb. 2, 2007.
- Evaluating PCST9 International Conference (1), *Science Times*, December 27, 2006.
- Evaluating PCST9 International Conference (2), *Science Times*, December 28, 2006.
- Women scientists into society: Recommendation or Quota? *Science Times*, November 29, 2006.
- The Life of Nobel Laureate: Linus Pauling, *Science & Technology*, 448, 88-91, 2006.
- The Life of Nobel Laureate: William Bragg, *Science & Technology*, 447, 90-93, 2006.
- The Life of Nobel Laureate: J. Watson & F. Crick, *Science & Technology*, 446, 90-93, 2006.
- The Life of Nobel Laureate: The Curie Family, *Science & Technology*, 445, 82-85, 2006.
- A Happy Dialogue between Science and Society, *The Hankyoreh 21*, 2005.
- For the Progress of Knowledge and Human Society, *Science & Technology*, 2005.
- Science Communication in Europe: Beyond the Two Cultures, *Science Times*, March 11, 2005.
- Over the Border Toward the Future, *Science & Technology*, 437, 42-43, 2005.
- John F. Kennedy: Challenge to the Universe, *Science & Technology*, 436, 56-57, 2005.
- Margaret Thatcher, Innovating Science Education, *Science & Technology*, 435, 38-39, 2005.
- Participation Report in AAAS Annual Conference, *Science & Technology*, 431, 50-51, 2006.
- The 7th Korea-UK Ministers Conference, *Weekly Magazine Science Culture*, 10-11, December 20, 2004.
- Feels-On Science Museum, *Weekly Magazine Science Culture*, 10-11, August 2, 2004.
- A Reflection of Daejeon Expo, *Weekly Magazine Science Culture*, Feb. 9, 2004.

- We need X-club Scientists, *Science & Technology*, 427, 4-5, 2004.
- It is Time for National Science Culture Index, *Science & Technology*, 423, 4-5, 2004.
- Viva Science! Science Culture in Europe, *Science & Technology*, 420, 32-34, 2004.
- Science Centers: Base-camp for Leisure and Innovation, *Physics and Cutting-edge Technology*, 13(12), 43-45, 2004.
- A Famous Family: The Huxley, *Science & Technology*, 408, 92-93, 2003.
- 16 Years After My Decision. *Science & Technology*, 406, 87-87, 2003.
- We need Science Culture Center, *Science & Technology*, 413, 4-5, 2003.
- Three Features of Science-centered Society, *Science Times*, June 8, 2003.

PRESENTATIONS (International and National Conferences and Seminars)

- *Communicating Science to the Public in East Asia*, Doshisha University, 2022.
- *Why do Science Museum and History of Science Matters*, Thailand National Science Museum, 2022.
- *Science Communication in Korea After Covid-19*, PCST 2023 Launching Symposium, 2022.
- *Encountering Cutting-edge Technologies at National Science Centers in Korea*, PCST 2021.
- *Rethinking Korean Science Day*, KOFST Forum, KOFST, 2020.
- *The Global Trend of Science Culture*, KOFAC, 2020.
- *Astronomy Revolution & Renaissance*, National Museum of Korea, 2020.
- *Talking My Life and My Science*, KIA Motors, 2019.
- *World Famous Science Museums*, Pusan National University, 2019.
- *World Great Cities meet Science*, GNSM, 2018.
- PCST –15 International Conference, Moderator, New Zealand, 2018.
- *Educational Challenge for 4th Industrial Revolution*, GNSM, 2018.
- *Science Trip to Europe*, Jeonnam National University, 2018.
- *Science Culture & 4th Industrial Revolution*, Gwangju Education Training Institute, 2018.
- *Science + Culture in 4th Industrial Revolution*, Asia Culture Center, 2018.
- MABIK 2017 International Conference, Moderator, Secheon, 2017.
- *4th Industrial Revolution & 4 Dimensions*, GIST, 2017.
- *Science Book Change My Life*, Gangdeuk Library, 2017.
- *Creativity in Science: Individual? or Community*, GIST Colloquium, 2017.
- *The Future changed by the 4th Industrial Revolution*, KT Talk Concert, 2017.
- *A Small Step but a Giant Leap - focusing on 2030 Future City Exhibition*, 7th International Symposium of Science Museums, 2017.
- *Science Communication and Science Culture*, National Science Museum, 2016.
- PCST-14 International Conference, Moderator, Turkey, 2016.
- *Curating the future: the science museum for creativity and sustainability*, SCIENCE & YOU 2015 International conference, Universite De Lorraine, 2015.
- *Science Exhibition and Management*, Chosun University, 2015.

- *Science Communication of Korea*, STEPI Technology & Policy Training Program, 2014.
- *Empowering science centers, enhancing science culture in Korea*, International Symposium towards a Multi-functional Science Centers and Science Museums, GNSM, 2013.
- *A Brief History of Science Culture in Korea*, The 1st IHPST Conference, 2012.
- *Science Policy for Promoting Science Culture by Local Governments*, Kyeonggido Business & Science Accelerator, 2012.
- *Innovative Experiences of Science Culture and Informal Science Education in Korea*, IHEST Summer University(France) 2011.
- *Science Korea Project: Popularization of Science in Korea*, UNESCO, 2011.
- *Lessons from Science Korea Movement*, ASEA International Conference, 2010.
- PCST-11 International Conference, Moderator, India, 2010.
- *Coalition and Science Culture*, The Association of Korean Woman Scientists & Engineers, 2010.
- PCST-10 International Conference, Moderator, Sweden, 2008.
- *What makes Successful Science Centers*, Jeollabukdo Institute of Science Education, 2007.
- *New Concept of Science Museum: Feels-on Science*, ASPAC Conference, Japan, 2007.
- *Korean Experience of Science Culture & Popularization of Science*, STEPI Technology & Policy Training Program, 2007.
- *The Achievements and Challenges of Korean Science Culture*, NISTEP International Colloq. Japan, 2005.
- *Challenge and Response: Two Social Issue & Science Korea Project*, Kobe Uni., Japan, 2005.
- *Science Korea Movement*, CAST International Conference, China, 2004.
- *Science Culture Centers: Its History, Concepts and Functions*, JSPS-KOSEF Joint Seminar, Kobe, Japan, 2003.
- *A Survey of the Distributions of the Facilities Supporting Students' Out-of-School Science Activities and their Programs in Korea*, JSPS-KOSEF Joint Seminar, Kobe, Japan, 2003.

EXHIBITIONS & PROJECTS

- Organizing special exhibitions such as < 2030 Future City>, <Time machine: Leonardo Da Vinci> , <Robot 5 Senses>, <All light, All right>, <Greeks meet Science>
- Establishing Thematic Science Classes such as <Medi+ Lab> <ICT Lab> <CSI Lab>
- Organizing symposia among Korea, China and Japan in AAAS (2010, 2011)
- Organizing series of Sci-Art Cafe
- Hosting the PCST - 9 International Seoul Conference
- Hosting KOREA-UK Women in Science Forum
- Editor of Online Newspaper, *Science times*
- Editor of Monthly magazine, *Science & Culture*
- Editor of the Science Section Newspaper, *Science & Future* with Joongang Newspaper Company
- Planning a National Movement for enhancing Public understanding of Science <Science Korea Project>
- Organizing an International Conference for celebrating World Science Day
- Hosting RI Christmas Science Lectures