

Keungoui KIM

School of Applied Artificial Intelligence
Handong Global University
Pohang, South Korea
awekimm@gmail.com (or awekim@handong.edu) / +82-10-7390-3280

EMPLOYMENT

Handong Global University, Korea

School of Applied Artificial Intelligence	2021.09.01 ~
Assistant Professor (Tenure-track)	

University College Dublin, Ireland

Spatial Dynamics Lab	2020.03.16 ~
Post-doc Researcher	2021.08.31

University Paris-Saclay (former University Paris-Sud), France

RITM (Réseaux Innovation Territories Monodialibation)	2019.02.18 ~
Post-doc Researcher	2020.03.13

Asian Research Network, Korea

Associate Research Fellow (Part-time)	2015.04.01 ~ 2016.02.29
---------------------------------------	----------------------------

Science and Technology Policy Institute, Korea

Office of Global Policy	2014.07.01 ~
Associate Research Fellow (Part-time)	2015.03.31

Hyundai Motors Company, Korea

Research and Development Center	2012.07.16 ~
Engineering Researcher	2014.02.28

EDUCATION

Seoul National University, Seoul, Korea

Technology of Management, Economics, and Policy Program	2019.02.26
Ph.D. in Economics	(2016.03.01)
Dissertation Title: "Research on firm-level diversification framework with respect to measurements and activities: Focused on the empirical case of pharmaceutical industry"	

Seoul National University , Seoul, Korea	2016.02.26
Technology of Management, Economics, and Policy Program	(2014.03.01)
M.Sc. in Economics	
Dissertation Title: “A Study on Technology Standardization Method using Network Analysis: Focused on Wireless Communication Technology Layer of Internet of things”	
Handong Global University , Pohang, Korea	2012
B.Sc. in Mechanical Engineering	
B.Sc. in Electric Engineering	

RESEARCH INTERESTS

- *Topics*: Science-Technology Innovation, Science-Technology Convergence, Public Policy (Real-estate, IT governance, health), Smart Specialization, Regional Innovation, Knowledge Spillover, Industry Network, Digital Technologies, Entrepreneurship, Socio-technology System Transition
- *Methodologies*: Machine Learning, Text Mining, Natural Language Processing, Network analysis, Econometric analysis, Spatial Regression, Structural Equation Modelling, Cluster Analysis, Principal Component Analysis, Meta Frontier Analysis, Forecasting, Causal inference, Index development, Policy (program) evaluation, Computational simulation

TEACHING INTERESTS

- Subject courses: (1) Science, Technology, and Policy, (2) Computational Social Science, (3) Socio-technical System Transition, (4) Strategic Management of Intellectual Property Right, (5) Regional Innovation, (6) Data and Public Policy, (7) Economics of Technology Innovation, (8) Applied Econometrics, (9) Knowledge Management, (10) International Development and STI policy
- Method courses: (1) Data Science (R, SQL, Python), (2) Python, R, HTML Programming, (3) Data Mining, (4) Text Mining & Natural Language Processing, (5) AI Project Management, (6) Data Visualization, (7) Machine Learning, (8) Applied Econometrics for Innovation Studies, (9) Network analysis

LANGUAGE

Korean (Mother-tongue)

English

Fluent in speaking, listening, writing, and working

Bahasa Indonesia

Intermediate level of speaking and listening
(10 years of living in 1995-2005).

INTERNATIONAL PUBLICATIONS (SSCI)¹

1. Nonnis, A., Bounfour, A., **Kim, K.** 2023. Knowledge diffusion with consideration of complementarity between intangibles and productivity: Empirical evidence from European cases. *Research Policy* [SSCI, JCR Q1, IF: 9.473] 2023/01. 52(1): 104611 (<https://doi.org/10.1016/j.respol.2022.104611>)
2. **Kim, K.**, Nonnis, A., Özaygen, A., Kogler, D. 2022. Green-tech knowledge capacity/diversity and entrepreneurship in German regional economies. *International Entrepreneurship and Management Journal* [SSCI, JCR Q1, IF: 6.704] 2022/10. (<https://doi.org/10.1007/s11365-022-00808-3>)
3. Shin, H., **Kim, K.**, Kogler, D. 2022. Scientific Collaboration, Research Funding, and Novelty in Scientific Knowledge². *Plos One* [SCIE, JCR Q2, IF: 3.24] 2022/07. 17(7) (<https://doi.org/10.1371/journal.pone.0271678>)
4. Lee, C., Shin, H., **Kim, K.**, Kogler, D. 2022. The effects of regional capacity in knowledge recombination on productivity gains. *Technological Forecasting and Social Change* [SSCI, JCR Q1, IF: 9.01] 2022/07. 180 July: 121669 (<https://doi.org/10.1016/j.techfore.2022.121669>)
5. **Kim, K.**, Kogler, D., Lee, C., Kang, T. 2022. Changes in the knowledge effect on local labor market in the midst of regime transition: Evidence from France over 1986-2015. *Applied Spatial Analysis and Policy* [SSCI, JCR Q2, IF: 1.59] 2022/05. (<https://doi.org/10.1007/s12061-022-09444-4>)
6. Kang, T., Maliphol, S., Kogler, D., **Kim, K.*** 2022. Regional knowledge capabilities, entrepreneurial activity, and productivity growth: Evidence from Italian NUTS-3 regions. *International Regional Science Review* [SSCI, JCR Q3, IF: 2.477] 2022/05. 45(3): 293-320 (<https://doi.org/10.1177/01600176211034134>)
7. Lee, J., Park, K., **Kim, K.*** 2022. Transition failure strengthening regime stability in socio-technical systems: A case study of shared mobility market in South Korea. *Telematics and Informatics* [SSCI, JCR Q1, IF: 6.182] 2022/05. 70(May): 101814 (<https://doi.org/10.1016/j.tele.2022.101814>)
8. Kogler, D., Davies, R., Lee, C., **Kim, K.*** 2022. Regional Knowledge Spaces: The Interplay of Entry-Relatedness and Entry-Potential for Technological Change and

¹ Research specifics in ORCID: <https://orcid.org/0000-0002-0839-8813> / *(Corresponding)

² Posted in LSE blog: <https://blogs.lse.ac.uk/impactofsocialsciences/2022/11/01/two-minds-better-than-one-does-research-funding-and-support-for-collaboration-lead-to-more-innovative-research/>

-
- Growth. *Journal of Technology Transfer* [SSCI, JCR Q2, 5.783, IF: 6.320] 2022/03. (<https://doi.org/10.1007/s10961-022-09924-2>).
9. **Kim, K.**, Lee, J., Kim, E. & Hwang, J. 2022. The related and unrelated product diversification strategy and open innovation: Comparison between biopharmaceutical and pharmaceutical industries. *Journal of Product Innovation Management* [SSCI, JCR Q1, IF 6.987] 2022/02. (<https://doi.org/10.1111/jpim.12620>).
 10. Lee, J., **Kim, K.***, Kim, J., Hwang, J. 2022. The relationship between shared mobility and regulation in South Korea: A system dynamics approach from the socio-technical transitions perspective. *Technovation* [SSCI, JCR Q1, IF: 6.606] 2022/01. 109: 102327 (<https://doi.org/10.1016/j.technovation.2021.102327>)
 11. Lee, J., **Kim, K.***, Park, G., Cha, N. 2021. The role of online news and social media in preventive action in times of infodemic from a social capital perspective: The case of the COVID-19 pandemic in South Korea. *Telematics and Informatics* [SSCI, JCR Q1, IF: 6.182] 2021/11. 64 (11): 101691 (<https://doi.org/10.1016/j.tele.2021.101691>)
 12. **Kim, K.**, Lee, J., Lee, C. 2021. Which innovation type is better for productivity efficiency? Comparison between product, process, organisational and marketing innovations using stochastic frontier and meta-frontier analysis. *Technology Analysis and Strategic Management* [SSCI, JCR Q3, IF: 2.975] 2021/08. (<https://doi.org/10.1080/09537325.2021.1965979>)
 13. Jung, S., **Kim, K.**, Lee, C. 2021. The Nature of ICT in Technology Convergence: A Knowledge-based Network Analysis. *Plos One* [SCIE, JCR Q2, IF: 3.24] 2021/07. 16 (7): 1-20 (<https://doi.org/10.1371/journal.pone.0254424>)
 14. **Kim, K.**, Jung, S., Hwang, J., Kim, E. 2021. The optimal diversification strategy in pharmaceutical industry: balance-centered or hetero-centered? *Science, Technology and Society* [SSCI, JCR Q4, IF: 1.173] 2021/05. 26 (2): 1-24 (<https://doi.org/10.1177/09717218211005616>)
 15. **Kim, K.**, Bounfour, A., Nonnis, A., Özaygen, A. 2021. Measuring ICT externalities and their contribution to productivity: A bilateral trade based approach. *Telecommunications Policy* [SSCI, JCR Q2, IF: 3.036]. 2021/03. 45 (2): 102085 (<http://doi.org/10.1016/j.telpol.2020.102085>).
 16. **Kim, K.**, Jung, S. & Hwang, J. 2019. Technology Convergence Capability and Firm Innovation in the Manufacturing Sector: An Approach based on Patent Network Analysis. *R&D Management* [SSCI, , JCR Q2, IF: 4.272]. 2019/09. 49(4): 595-606 (<https://doi.org/10.1111/radm.12350>).
 17. Lee, J., **Kim, K.**, Shin, H., Hwang, J. 2018. Acceptance Factors of Appropriate Technology: Case of Water Purification Systems in Binh Dinh, Vietnam. *Sustainability* [SSCI, JCR Q2, IF: 3.245]. 2018/07. 10(7): 1-20 (<http://doi.org/10.3390/su10072255>)
 18. **Kim, K.**, Jung, S., Hwang, J., Hong, A. 2018. A dynamic framework for analyzing technology standardization using network analysis and game theory. 2018/05. *Technology Analysis and Strategic Management* [SSCI, JCR Q3, IF:2.975]. 30(5): 540-555 (<http://dx.doi.org/10.1080/09537325.2017.1340639>).

-
19. Lee, C., Jung, S., **Kim, K***. 2017. Effect of a Policy Intervention on Handset Subsidies on the Intention to Change Handsets and Households' expenses in Mobile Telecommunications. *Telematics and Informatics* [SSCI, JCR Q1, IF: 6.182]. 2017/12. 34(8): 1524-1531 (<https://doi.org/10.1016/j.tele.2017.06.017>).

INTERNATIONAL PUBLICATIONS (SCOPUS)

1. Kogler, D. & **Kim, K.** 2021. Following the paper trail : the UK scientific and technological knowledge space and its reliance on international knowledge spillovers. *Regional Studies, Regional Science* [SCOPUS]. 2021/12/17. 8 (1): 447-459. (<https://doi.org/10.1080/21681376.2021.2009907>)
2. Nonnis, A., Bounfour, A., Ozaygen, A., **Kim, K.**, Beliaeva, T. 2021. The combined contribution of intangible capital and global value chain participation to productivity. *International Journal of Intellectual Property Management* [SCOPUS]. 2021/02/19. 11 (1) (<http://doi.org/10.1504/IJIPM.2020.10032445>)
3. **Kim, K.**, Jung, S., Kim, E., Hwang, J. 2019. Which technology diversification index should be selected?: Insights for diversification perspectives. *Cogent Business & Management* [SCOPUS]. 2019/07. 6 (1): 1-18 (<https://doi.org/10.1080/23311975.2019.1643519>)

DOMESTIC PUBLICATIONS

1. **Kim, K.**, Lee, J., Lee, C. 2021. Exploratory Analysis of Knowledge Structure and Evolutionary Trajectory in Korean Artificial Intelligence for Effective Technology Policy (효율적인 기술 정책 제안을 위한 한국 인공지능 지식 구조와 진화 궤적의 탐색적 분석). *Innovation Studies*, 16(3): 139-172.
2. Park, C., Kim, D., Yoon, J., **Kim, K.**, Lee, J., & Hwang, J. 2018. A Study on Cooperation Model for Promoting Overseas Volunteering Program Based on Appropriate Technology Orienting University Students Participation: Focused on Institute for Global Social Responsibility in SNU (대학생 참여 중심의 적정기술 활동 활성화를 위한 산학단 협력모델 연구:서울대학교 글로벌사회공헌단 사례를 중심으로). *Journal of Appropriate Technology*, 4(1): 1-8.
3. Shin, H., Kim, J., Lee, J., **Kim, K.**, & Hwang, J. 2016. A Convergence Innovation System Approach for Sustainable Appropriate Technology: Identifying the innovation factors (지속가능한 적정기술을 위한 혁신 시스템: 혁신 요소의 탐색). *Journal of Appropriate Technology*, 2(1): 68-75.
4. **Kim, K.**, & Jung, S. 2017. A Study on Apartment Transaction Price Index Using Cluster Analysis: Focused on the case of Seoul (군집 분석을 활용한 아파트

실거래가격지수 연구: 서울시 사례를 중심으로). *Journal of Real Estate Analysis*, 3(1): 35-58 (<https://doi.org/10.30902/jrea.2017.3.1.35>).

5. **Kim, K.**, & Kim, Y. 2015. A Study on Forecasting Model for Apartment Housing Price Index Reflecting Model Uncertainty: Focused on BMS, BMA (모델의 불확실성을 반영한 아파트가격지수 예측 모형 연구: BMS, BMA 를 중심으로). *Journal of Real Estate Analysis*, 1(1): 27-52 (<https://doi.org/10.30902/jrea.2015.1.1e.27>).
6. **Kim, K.**, Jung, S., & Hwang, J. 2015. A Study on Technology Standardization Method Using Network Analysis: Focused on Wireless Communication Technology Layer of Internet of Things (네트워크 분석을 이용한 기술 표준화 방법론 연구: 사물인터넷 무선 통신 기술 계층을 중심으로). *Journal of Technology Innovation* [KCI]. 25 (3): 43-65 (<http://dx.doi.org/10.14383/SIME.2015.23.3.43>).

BOOK

- (Book Chapter) Ahmed Bounfour, **Keungoui Kim**, Tran Ngoc Phung, 2022, "Digital Platform Modelling: Delineating the Foundations of Their Business Models," In book of Platforms and Artificial Intelligence, The Next Generation of Competences. (https://doi.org/10.1007/978-3-030-90192-9_1)
- Jeong Hyop Lee, Sira Maliphol, **Keungoui Kim**, 2015, "STI Strategies and Action Planning in ASEAN," Science and Technology Policy Institute (STEPI) Policy Report.
- (Book Chapter) Korea Standard Association, 2015, "Next Standards 2016": Insight 04. The Value and Future of Technology Standard (written by **Keungoui Kim**, Sungdo Jung, and Junseok Hwang).

WORKING PAPERS

Knowledge Evolution and Innovation

- Kim, K.**, Kogler, D., Lee, J., Lee, C. The Spatial Diffusion and Adoption of Business Methods: Leading and Dominant Technologies in Knowledge Recombination. *Technological Forecasting and Social Change* (Under review)
- Shin, H., Lee, J., **Kim, K.**, Kogler, D. The Evolution of Knowledge Spaces: The Nexus of Inventors, Firms and Regions and Beyond (Under review for the special issue of *Cambridge Journal of Regions, Economy and Society*)
- Kim, K.**, Chiara, F., Kogler, D. Smart Specialization Policy Brief (preparing submission to *Journal of Knowledge Economy*)
- Shin, H., Kogler, D., **Kim, K.** * The Relevance of Scientific Knowledge Externalities for Technological Change and Resulting Innovation Citation Impact Across European Metropolitan Areas. *Review of Regional Research* (Under review)

- Kogler, D., Shin, H., **Kim, K.*** The Geography of Knowledge Externalities: Spillovers from Science to Technology (preparing submission to *Plos One*)
- Kim, K.**, Kogler, D., Lee, C., Kang, B., Shin, H. Evolution of Japanese Knowledge Space with Relation to National Economic Transformation
- “Regional Structural Transformation: Jump or YoYo?” (with Changjun Lee from Hanyang University and Dieter Kogler from UCD)
- “Scientific Knowledge Complexity of Chinese Knowledge Space” (with Junmin Lee, Chiara Ferrente, Dieter Kogler from University College Dublin”

Industry Network

- Kim, K.**, Özaygen, A. Analysis of the network position and the innovative capacity of national manufacturing industries in world production.³ *R&D Management* (Under review)
- “Innovation and the Technological Content of Imports.” (with Ron Davies, Igor Bagayev and Dieter Kogler from UCD)

Collaboration

- Balazs, L., **Kim, K.**, Whittle, A., Kogler, D. Understanding Regional Branching: Knowledge Diversification via Inventor Collaboration Networks. *Journal of Economic Geography* (3rd round revision)
- Kim, K.**, Kogler, D., Zabetta, M. New Cooperation and Novel Innovations: The Role of Regional Brokerage and Collaboration Intensity. *European Planning Studies* (1st Revision)
- Wanzenböck, I., Rochetta, S., Kogler, D., **Kim, K.** Explaining the emergence of new regional technological specialisations: the role of organisations’ network structure. (Submitted to *Economic Geography*)
- Lee, J., Wu, S., **Kim, K.**, Kogler, D. Regional cooperation in science and technology innovation: Evidence from the Greater Bay Area, China. (Preparing submission to *Environment and planning A*)

Computational Social Science

- Lee, C., Na, C., **Kim, K.***. The effect of watching OTT late at night on sleep (Preparing submission to *Sleep and Biological Rhythms*)

³ All codes and functions used in this research is provided at https://github.com/awekim/wiod_manufacturing and R package for downloading WIOD data and creating data for network calculation is provided at <https://github.com/awekim/wiodNET>

Kim, K., Shin, D., Maliphol, S., Lee, C. What factors affect privacy concerns in the post COVID-19 era? (Submitted to the special issue of *Science and Public Policy*)

Kim, K., Lee, C. “Individual’s selective exposure on media usage diversity and political polarization” (Preparing submission to *Telematics and Informatics*)

“Crime classification model based on Machine Learning algorithm.” (with Youngan Kim from the Florida State University)

Innovation Management Strategy

Jung, S., **Kim, K.**, Oh, D. An influence of firm’s technological features on innovation and performance: A case of Korean manufacturing industry. *Journal of Engineering and Technology Management* (Under review)

Kim, K., Lee, J., Kim, E. & Hwang, J. Effects of open innovation on firm-level diversification: The moderating role of alliance portfolio management capability. (Preparing for submission to *Strategic Management Journal*)

Business Model Innovation and System Transition

Lee, J., Lee, J., **Kim, K.**, Park, G. What happens after niche failed becoming regime? An agent-based model of socio-technical transitions. (Preparing submission to *Technovation*)

Lee, J., **Kim, K.**, Park, G. Niche–regime interaction through the business model in socio-technical transition: Focused on shared mobility services in China and South Korea. (Submitted to *Futures*)

Science Evolution

Kim, K., Kogler, D., Maliphol, S. What are the key topics in the future interdisciplinary science?: Combination of network analysis and topic modelling method based on LDA mallet model. (Submitted to *Journal of Knowledge Economy*)

Kim, K., Shin, H., Kogler, D. Relatedness and science change in region: The evolution of science space in EU regions. (Preparing submission to *Economic Geography*)

INTERNATIONAL CONFERENCE PARTICIPATION

Borja, S., **Kim, K.**, Yoon, H. Hwang, J. 2022. Mechanisms that Influence IT Governance Effectiveness: Empirical Analysis in Private and Public Sector in Colombia. PICMET 2022 at Portland, USA.

Wanzenböck, I., Rocchetta, S., Kogler, D., **Kim, K.** 2022. Explaining the emergence of new regional technological specialisations: the role of organisations’ network structure. DRUID 2022. DRUID. June 14th.

- Lee, J., **Kim, K.**, Kogler, D. 2022. Regional cooperation between Hong Kong and Shenzhen for synergies and complementarities: Focused on the scientific and technological knowledge space. DRUID 2022. DRUID. June 14th.
- Kim, K.**, Kogler, D., Zabetta, M. 2021. Knowledge Specialization and Novel Innovations: The Role of Regional Brokerage and Collaboration Intensity. DRUID 2021. DRUID. October 19th.
- Kim, K.**, Shin, H., Kogler, D. 2021. Relatedness and science change in region: The evolution of science space in EU regions. DRUID 2021. DRUID. October 19th.
- Shin, H., **Kim, K.**, Kogler, D. 2021. Science Collaboration, Research Funding, and Novelty in Scientific Knowledge. DRUID 2021. DRUID. October 20th.
- Kim, K.**, Kogler, D., Zabetta, M. 2021. New Cooperation and Novel Innovations: The Role of Regional Brokerage and Collaboration Intensity. 4th International Conference on Cluster Research. Rethinking Clusters. September 23rd.
- Wanzenböck, I., Rochetta, S., Kogler, D., **Kim, K.** 2021. Actors, networks and regional technological change. A network portfolio approach to explain the emergence of new technological specializations. 4th International Conference on Cluster Research. Rethinking Clusters. September 23rd.
- Kim, K.**, Kogler, D., Maliphol, S. 2021. What are the key topics in the future interdisciplinary science?: Combination of network analysis and topic modelling method based on LDA mallet model. Research Policy 50th Anniversary Conference. Research Policy. September 10th.
- Kim, K.**, Shin, H., Koger, D. 2021. Relatedness and science change in region: The evolution of science space in EU regions. Research Policy 50th Anniversary Conference. Research Policy. September 10th.
- Kim, K.**, Shin, H., Koger, D. 2021. Relatedness and science change in region: The evolution of science space in EU regions. Regions in Recovery. Regional Studies Association. (https://www.youtube.com/watch?v=VLo698aT_Lg)
- Shin, H., **Kim, K.**, Koger, D. 2021. Moderating role of funding for science collaboration and novelty. Regions in Recovery. Regional Studies Association. (https://www.youtube.com/watch?v=VLo698aT_Lg)
- Kim, K.**, Lee, C., Kogler, D. 2020. A new dimension of regional knowledge space: entry relatedness and entry potential. 5th edition of Summer School on Data & Algorithms for ST&I studies at Leuven, Belgium.
- Kim, K.**, Bounfour, A., Özeygen, A., Nonnis, A., Beliaeva, T. 2019. The contribution of ICT to productivity focusing on intangibles and interior/exterior ICT externalities. The World Conference on Intellectual Capital for Communities at Paris, France. European Chair on Intellectual Capital. July 11th.
- Nonnis, A., Özeygen, A., Bounfour, A., **Kim, K.**, Beliaeva, T. 2019. Analyzing the productivity contribution of intangible assets and participation in global value chains. The World Conference on Intellectual Capital for Communities at Paris, France. European Chair on Intellectual Capital. July 11th.
- Borja, S., **Kim, K.**, Yoon, H. Hwang, J. 2018. IT Governance Effectiveness and Its Influence on Innovation Product and Process. PICMET 2018 at Hawaii, USA.

Hong, A., **Kim, K.**, Jung, S. & Kim, K. 2018. The effect of the patent convergence on global competitiveness index for cross country analysis. The Asia-Pacific Productivity Conference (APPC) 2018 “Productivity, Innovation, and Sustainable Economic Growth with Changing Technological Paradigm” at Seoul, South Korea.

DOMESTIC CONFERENCE PARTICIPATION

Lee, J., Park, K., **Kim, K.*** Haunted by the ghost: Strengthen the regime stability by niche failure. 2021. 정보통신정책학회 2021 년 정기학술대회. 2021/11/19.

Lee, J., Lee, J., Kim, K., Park, K. What happens after niche failed becoming regime? An agent-based model of socio-technical transitions. 2022. 미디어경영학회 2022 년 정기학술대회. 2022/5/13.

RESEARCH GRANT PARTICIPATION

WeGO (World e-Governments Organization of Cities and Local Governments) Open Data Project. Open Data: An Introductory, Practical Guide for Solutions. Participation as a *Researcher*. 2014.07.01 ~ 2014.12.31.⁴

Communications Policy Research Center (CPRC). Internet of Things Policy Project. Participation as a *Researcher*. 2016.04.01 ~ 2017.03.31.

National Research Foundation of Korea (NRF). Common Research Project: “Theory Building of Appropriate Technology and Sharing Economy Application for Social Problem Resolution”. Participation as a *Researcher*. 2016.11.01 ~ 2018.12.31.

Sun Dae In Economic Research Institute. “Real-estate price index development project” Participation as *Data Analyst*. 2016.09 ~ 2017.02.⁵

Graduate School of Health Science Business Convergence, College of Medicine, Chungbuk National University. Pharmaceutical data preprocessing and integration project. Participation as *Data Analyst*. 2017.09 ~ 2018.02.

GLOBALINTO (H2020 project). European Research Commission. Participation as Post-doc Researcher. 2019.02 ~ 2020.03.

Northern Powerhouse Research and Innovation. Cambridge Econometrics. Participation as a Post-doctoral Researcher & Data Analyst. 2020.03 ~ 06.

SciTech Space (SFI Science Policy Research Programme). Science Foundation Ireland. Participation as a Post-doctoral Researcher. 2020.03 ~ 2021.08.

⁴ Research outcome, <http://we-gov.org/portfolio/open-data-an-introductory-practical-guide-for-solutions/>

⁵ Research outcome, Kim, K. & Jung, S. 2017. A Study on Apartment Transaction Price Index Using Cluster Analysis: Focused on the case of Seoul. *Journal of Real Estate Analysis*, 3(1): 35-58.
<https://doi.org/10.30902/jrea.2017.3.1.35>

Big Data Innovation Sharing University Project (빅데이터 혁신공유대학 사업).
Organization committee. 2021.09 ~ .
LINC 3.0 Task Force Team. 2022.01 ~ 2022.03. (Project accepted)
LINC 3.0 2022.07. ~

AWARDS & HONORS

2015. Best Paper Award. Real Estate Policy and Market Analysis Papers Competition.
Korea Appraisal Board.⁶
2015. Best Paper Award. The 5th International Symposia Green, Smart, Development and
Vision 2015.
2013. Excellence Award. 2013 Idea Festival. Hyundai Motors R&D Center. “A vehicle for
dwarfism, GLOVE”.

TEACHING EXPERIENCE

Handong Global University, Pohang, South Korea

Text Mining. 2022-Autumn semester
Data Science. 2022-Spring semester / 2022-Summer semester (“Big Data Camp 2022”)
Introduction to Big Data. 2021-Winter semester (“Big Data Camp 2021”)
2022-Spring semester

Python Programming. 2021-Autumn semester
App Programming. 2021-Autumn semester / 2022-Autumn semester

University College Dublin, Dublin, Ireland

Regional Innovation. 2021-Spring semester

Institut Mines-Télécom Business School (IMT BS), Evry, France

Strategic Management of Intellectual Property Right. 2020-Spring semester

Kyung Hee University, Seoul, Korea

Applied Engineering Statistics (Invited lecture). 2017.10

POSCO, Pohang, Korea

Bahasa Indonesia lecture. 2012.03~06

SOFTWARE / PROGRAMMING SKILLS

Fluent usage at big data handling, econometric analysis and data visualization using R

Languages: R, SQL, Python

Statistics & Econometric analysis: R, STATA, MATLAB, SPSS, AMOS, Eviews

Network analysis: R, Gephi

Database: SAS, PostgreSQL, MySQL

Web-crawling: R (Rselenium), Python

⁶ Kim, K., & Kim, Y. 2015. A Study on Forecasting Model for Apartment Housing Price Index Reflecting Model Uncertainty: Focused on BMS, BMA. *Journal of Real Estate Analysis*, 1(1), 27–52.

Text analysis (Natural Language Processing): R, Python

Visualization: R, R Shiny⁷

Intermediate level of engineering modeling and simulation using CATIA V5

Additional software skills: MS-office literacy, Adobe Audition

ACADEMIC SERVICE

Ad-hoc Reviewer in

Journal of Intercultural Communication Research, Journal of Technology Transfer, Regional Studies, Scientometrics, Technology Analysis and Strategic Management, International Regional Science Review, Policy Sciences, Industry: Organization & Management, R&D Management, Telematics and Informatics, Information Technology and Management, Plos One, Journal of Intellectual Capital, Cogent Business & Management

⁷ R Shiny applications: https://awekim.shinyapps.io/WoS_REG_shiny_R/,
https://awekim.shinyapps.io/WoS_shiny/, https://awekim.shinyapps.io/SS_shiny_R/,
https://awekim.shinyapps.io/Manuf_shiny_R/