Keungoui KIM

Humanities, Arts, and Social Sciences Division (Science, Technology, and Policy Major)
Underwood International College, Yonsei University
Seoul, South Korea
awekimm@gmail.com (or awekim@yonsei.ac.kr)

EMPLOYMENT

Yonsei University, Korea
  Humanities, Arts, and Social Sciences Division (HASSD)
   Underwood International College
   Assistant Professor (Tenure-track)
	2025.03.01 ~

Handong Global University, Korea
  School of Applied Artificial Intelligence
  Assistant Professor (Tenure-track)
	2021.09.01 ~
	2025.2.28

University College Dublin, Ireland
  Spatial Dynamics Lab
  Post-doc Researcher
	2020.03.16 ~
	2021.08.31

University Paris-Saclay (former University Paris-Sud), France
  RITM (Réseaux Innovation Territoires Monodialibation)
  Post-doc Researcher
	2019.02.18 ~
	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
  Associate Research Fellow (Part-time)
	2014.07.01 ~
	2015.03.31

Hyundai Motor Company, Korea
  Research and Development Center
  Engineering Researcher
	2012.07.16 ~
	2014.02.28

EDUCATION

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

Seoul National University, Seoul, Korea
  Technology of Management, Economics, and Policy Program
  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"
	2016.02.26
	(2014.03.01)

Handong Global University, Pohang, Korea   2012
   B.Sc. in Mechanical Engineering
   B.Sc. in Electric Engineering

RESEARCH INTERESTS

- *Topics*: Interdisciplinary Science-Technology, Smart Specialization, Regional Innovation, Socio-technology System Transition, Knowledge Spillover, Public Policy (Real-estate, IT governance, Health, Crime), Digital Technologies, Entrepreneurship, Industry Network
- *Methodologies*: Econometric Analysis, Text Mining & Natural Language Processing, Machine Learning, Network Analysis, Spatial Regression, Structural Equation Modelling, Meta Frontier Analysis, Index development, Policy (program) evaluation, Computational Simulation

TEACHING INTERESTS

- Subject courses: (1) Science and Technology Policy, (2) AI & Social Change, (3) Computational Social Science, (4) Socio-technical System Transition, (5) Strategic Management of Intellectual Property Right, (6) Regional Innovation, (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) Advanced Statistics, (3) Python, R, HTML Programming, (4) Text Mining & Natural Language Processing, (5) AI Project Management, (6) Data Visualization, (7) Computational Social Science Analytics, (8) Network analysis and Social Change

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. **Kim, K.**, Kogler, D., Hur, J. 2025. Mapping regional knowledge spaces via BERTopic and BERT similarity: the semantic proximity of quantum science in the overall scientific publication landscape. *Scientometrics* [SSCI, CR Q2, IF: 4.1] 2025/9. (https://doi.org/10.1007/s11192-025-05430-y)
2. Hur, J., Kim, G., Hwang, J., **Kim, K.*** 2025. Unravelling the Impact of Design-engineering Capability on Firm Performance. *Innovation: Organization & Management* [SSCI, JCR Q2, IF: 1.8] 2025/8. (https://doi.org/10.1080/14479338.2025.2547575)
3. Hur, J. **Kim, K.*** 2025. The Impact of Design and Technology Capability on Patent Quality: Exploring the Role of Interdisciplinary Inventors and Their Technological Knowledge. *R&D Management* [SSCI, JCR Q1, IF: 5.7] 2025/7. (https://doi.org/10.1111/radm.70005)
4. Wanzenböck, I., Rochetta, S., Kogler, D., **Kim, K.** 2025. The emergence of new regional technological specialisations: Exploring the role of organisations and their technological network structure. *Industry and Innovation* [SSCI, JCR Q1, IF: 3.4] 2025/5. 32(5): 513-539 (https://doi.org/10.1080/13662716.2024.2385575)

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

5. **Kim, K.**, Kim, Y. 2024. A Machine Learning Approach to Analyzing Crime Concentration: The Case of New York City. *Justice Quarterly* [SSCI, JCR Q1, IF: 2.6] 2024/10. (https://doi.org/10.1080/07418825.2024.2401938)

6. **Kim, K.**, Shin, D., Maliphol, S., Lee, C. 2024. Exploring the interplay between social distancing, innovation adoption, and privacy concerns amid the COVID-19 crisis. *Science and Public Policy* [SSCI JCR Q2, IF: 2.087] 2024/12. 51 (6): 1257-1266 (https://doi.org/10.1093/scipol/scae024)

7. Lee, J., **Kim, K.**, Park, G. 2024. Influence of Business Models on the Sustainable Transition of Shared Mobility Services in China and South Korea. *Asia Pacific Business Review* [SSCI, JCR Q2, IF: 2.9] 2024/6. (https://doi.org/10.1080/13602381.2024.2358952)

8. **Kim, K.**, Chiara, F., Kogler, D. 2024. Smart Specialisation Strategies and Regional Knowledge Spaces: How to Bridge Vision and Reality[2]. *Regional Studies* [SSCI, JCR Q1, IF: 5.1]. 2024/6. 58 (12): 2501-2517 (https://doi.org/10.1080/00343404.2024.2355985)

9. **Kim, K.**, Kogler, D., Maliphol, S. 2024. Identifying interdisciplinary emergence in the science of science: combination of network analysis and BERTopic. *Humanities and Social Sciences Communications* [SSCI, JCR Q1, IF: 3.5]. 2024/5. 11 (603): 1-15 (https://doi.org/10.1057/s41599-024-03044-y)

10. Hur, J., Chun, Y., Hwang, J., **Kim, K.*** 2024. The moderating role of design innovation in the relationship between technology complexity and firm performance. *Technology Analysis and Strategic Management* [SSCI, JCR Q2, IF: 3.4]. 2024/3. (https://doi.org/10.1080/09537325.2024.2336555)

11. Hur, J., Hwang, J., **Kim, K.*** 2024. The role of design engineers: Evidence from intra-firm knowledge and collaboration networks. *Plos One* [SCIE, JCR Q2, IF: 3.24] 2024/2. 19 (2): e0298089 (https://doi.org/10.1371/journal. pone.0298089)

12. **Kim, K.**, Kogler, D., Zabetta, M. 2023. New Cooperation and Novel Innovations: The Role of Regional Brokerage and Collaboration Intensity. *European Planning Studies* [SSCI JCR Q1. IF: 3.777]. 2023/11. 32 (6): 1251-1272 (https://doi.org/10.1080/09654313.2023.2291087)

13. Kogler, D., Whittle, A., **Kim, K.**, Lengyel, B. 2023. Understanding Regional Branching: Knowledge Diversification via Inventor and Firm Collaboration Networks. *Economic Geography* [SSCI JCR Q1, IF:14.921] 2023/11. 99 (5): 471-498 (https://doi.org/10.1080/00130095.2023.2242551)

14. Shin, H., **Kim, K.**, Lee, J., Kogler, D. 2023. Inventors, firms and localities: insights into the nexus that forms and alters the evolution of regional knowledge spaces. *Cambridge Journal of Regions, Economy, and Society* [SSCI Q1, IF: 6.2] 2023/11. 16 (3): 511-528 (https://doi.org/10.1093/cjres/rsad019)

15. Lee, C., Na, C., **Kim, K.***. 2023. The effect of watching OTT late at night on sleep. *Sleep and Biological Rhythms* [SCIE, JCR Q3, IF:1.390] 2023/05. 21: 395-407 (https://doi.org/10.1007/s41105-023-00459-z)

16. **Kim, K.**, Nonnis, A., Özaygen, A., Kogler, D. 2023. Green-tech knowledge capacity/diversity and entrepreneurship in German regional economies. *International Entrepreneurship and Management Journal* [SSCI, JCR Q1, IF: 6.704] 2023/03. 19: 97-120 (https://doi.org/10.1007/s11365-022-00808-3)

17. **Kim, K.**, Lee, J., Lee, C. 2023. 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 Q2, IF: 3.4] 2023/01. 35 (1): 59-72 (https://doi.org/10.1080/09537325.2021.1965979)

18. Nonnis, A., Bounfour, A., **Kim, K.** 2023. Knowledge spillovers and intangible complementarities: Empirical case of European countries. *Research Policy* [SSCI, JCR Q1, IF: 9.473] 2023/01. 52 (1): 104611 (https://doi.org/10.1016/j.respol.2022.104611)

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[2] https://awekim.shinyapps.io/SS_shiny_R/

19. Shin, H., **Kim, K.**, Kogler, D. 2022. Scientific Collaboration, Research Funding, and Novelty in Scientific Knowledge[3]. *Plos One* [SCIE, JCR Q2, IF: 3.24] 2022/07. 17 (7): e0271678 (https://doi.org/10.1371/journal.pone.0271678)

20. 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)

21. **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. 16: 1255-1276 (https://doi.org/10.1007/s12061-022-09444-4)

22. 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)

23. 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)

24. Kogler, D., Davies, R., Lee, C., **Kim, K.*** 2022. Regional Knowledge Spaces: The Interplay of Entry-Relatedness and Entry-Potential for Technological Change and Growth. *Journal of Technology Transfer* [SSCI, JCR Q2. 5.783, IF: 6.320] 2022/03. 48: 645-668 (https://doi.org/10.1007/s10961-022-09924-2).

25. **Kim, K.**, Lee, J., Kim, E. & Hwang, J. 2022. Related and unrelated product diversification and collaboration strategies: Comparison between the pharmaceutical and biopharmaceutical industries. *Journal of Product Innovation Management* [SSCI, JCR Q1, IF 6.987] 2022/02. 39 (4): 559-580 (https://doi.org/10.1111/jpim.12620).

26. 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)

27. 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)

28. 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)

29. **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)

30. **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).

31. **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 Q1, IF: 5.7]. 2019/09. 49(4): 595-606 (https://doi.org/10.1111/radm.12350).

32. 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)

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[3] 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/

33. **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 Q2, IF: 3.4]. 30 (5): 540-555 (http://dx.doi.org/10.1080/09537325.2017.1340639).

34. 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. Shin, H., Kogler, D., **Kim, K.*** 2023. The Relevance of Scientific Knowledge Externalities for Technological Change and Resulting Innovation Citation Impact Across European Metropolitan Areas. *Review of Regional Research* [SCOPUS] 2023/06. (https://doi.org/10.1007/s10037-023-00190-9)

2. 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)

3. 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)

4. **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. Ahn, S., Moon, B., Park, S., Kim, S., **Kim, K.*** 2025. A Study on Data Preprocessing and Prompt Engineering Methodologies Specialized for the Interpretation of Automobile Law Documents (자동차 법률 문서 해석에 특화된 데이터 전처리 및 프롬프트 엔지니어링 방법론 연구). *Journal of Korean Institute of Information Technology* [KCI]. 23(6): 31-40.

2. Choi, J., Oh, K., Jang, S., **Kim, K.*** 2025. Predicting Bicycle Demand at the Station Level by Incorporating Station-Specific Spatial Features in Graph Convolutional Network Model (그래프 컨볼루션 네트워크 모델을 활용한 역별 공간 특성을 고려한 자전거 수요 예측). *Journal of the Korea Society of Digital Industry and Information Management* [KCI]. 21(1): 27-43.

3. Park, Y., Kim, D., Yoo, S., Bae, Y., **Kim, K.*** 2024. Research on Prompt Engineering for Generative AI to Create Business Data Analysis Reports (비즈니스 데이터 분석 리포트 생성을 위한 생성형 AI 프롬프트 엔지니어링 연구). *Journal of Korean Institute of Information Technology* [KCI]. 22(11): 167-180.

4. Ahn, D., Kim, J., Sohn, J., **Kim, K.*** 2024. MLB's on-base and out prediction model by pitcher and batter type using machine learning (머신러닝을 활용한 미국 프로야구의 투수 및 타자의 유형별 출루 및 아웃 예측 모델). *The Korean Society of Sports Science* [KCI]. 33(1): 655-665.

5. **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* [KCI]. 16(3): 139-172.

6. 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.

7. 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.

8. **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).

9. **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).

10. **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) **Keungoui Kim**, Ahmed Bounfour, Nonnis Alberto, Altay Özaygen, 2024, "ICT Externalities", Intangible Assets, Productivity and Economic Growth: Micro, Meso and Macro Perspective.

(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.

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).

INTERNATIONAL CONFERENCE PARTICIPATION

Kim, K., Kim, Y. 2024. Examining the Spatial and Temporal Patterns of Crime in Block Groups in New York City: A Machine Learning Approach. American Society of Criminology at San Francisco. November 14th.

Kim, K., Hynes, R., Kogler, D. 2024. Identification of Specialized Science Fields Employing BERTopic Model[4]. GEOINNO 2024 at Manchester, UK. January 12th.

Hur, J., Hwang, J., Kim, G., **Kim, K.*** 2023. The Moderating Effect of Design-engineering Capability on the Relationship between Firms' Innovation Activity and Performance. IEEE ICTMOD 2023. November 24th.

Hur, J., **Kim, K.*** 2023. Technology Complexity and Firm Performance: the Moderating Effect of Design Innovation. 18th European Conference on Innovation & Entrepreneurship. September 21st.

Hur, J., Hwang, J., **Kim, K.*** Exploring the Role of Design-engineers in a Firm's Collaborative and Knowledge Network. Society of Interdisciplinary Business Research. June 2nd.

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.

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[4] https://awekim.shinyapps.io/ss_bertopic/

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., Özaygen, 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., Özaygen, 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

Cho, Y., Hwang, E., Lee, Y., Yeon, J., **Kim, K.*** 2025. 평가 지표 생성 및 계층적 머신러닝을 이용한 NBA 드래프트 루키 시즌 성공 예측 연구 A Study on Predicting Rookie Season Sucess in the NBA Draft Using Evaluation Metric Development and Hierarchical Machine Learning. 한국정보기술학회 하계 종합학술대회. 2025/6/13

Kim, K. 2024. TV 채널 시청 다양성과 클러스터링 기법을 활용한 미디어 시청 패턴 분석 Analysis of Media Viewing Patterns Using TV Channel Viewing Diversity and Clustering Analysis. 언론학회 코바코 특별세션. 2024/12/11

Ahn, S., Moon, B., Park, S., Kim, S., **Kim, K.*** 2024. 자동차 법률 문서 해석에 특화된 데이터 전처리 및 프롬프트 엔지니어링 방법론 연구 Research on Data Preprocessing and Prompt Engineering Methodology Specialized for Interpreting Automobile Legal Documents. .한국정보기술학회 추계학술대회. 2024/11/21

Park, Y., Kim, D., Yoo, S., Bae, Y., **Kim, K.*** 2024. Research on Prompt Engineering for Generating Business Data Analysis Reports Using Generative AI Models: Focusing on Performance Marketing Cases.한국정보기술학회 하계학술대회. 2024/5/23

Choi, J., Oh, K., Jang, S., **Kim, K.*** 2023. Predicting Bicycle Demand by Incorporating Station-Specific Spatial Features in a Graph Convolution Networks Model. 한국인공지능학회 추계학술대회. 2023/11/24

Ahn, D., Son, J., Kim, J. **Kim, K.*** 2023. 머신러닝을 활용한 미국프로야구의 투수–타자 유형별 출루 및 아웃 예측 모델. 한국정보기술학회 추계종합학술대회. 2023/11/24

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

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

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. [5]

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. [6]

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.

Culture & Art Education Project. Pohang City. 2023.07 ~ 12.

Developing a Psychological Counseling Chatbot: Bridging Communication and Ergonomics for Promoting Self-disclosure and Efficient Counseling. National Research Foundation. 2023.04 ~ .

Research on Quantum Science and Technology Korea-Europe International Cooperation R&D Network. Korea-Europe Quantum Science Technology Cooperation Center. 2024.01 ~ 2024.08.

Exploring Methodologies for Enhancing International Cooperation Strategies. KISTEP. 2024.02 ~ 12.

Analysis of Korean Securities Trading Data for Optimizing AI Interface Learning. Lean Commerce. 2024.05 ~ 2024.06.

XaaS Pioneering Project. NIPA. 2024.05 ~ 2024.12.

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[5] Research outcome, http://we-gov.org/portfolio/open-data-an-introductory-practical-guide-for-solutions/

[6] 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

K-U City Culture Contents Activation Project. Gyeongsangbuk-do. 2024.06 ~ 12.
Regional Innovation Project for Talent Development. Gyeongsangbuk-do. 2024.10 ~ 2025.01.
KF Global Fellow. Korea Foundation. 2025.04 ~ 2025.12.
Research on Quantum Science and Technology Korea-Europe International Cooperation R&D Network Advancement. Korea-Europe Quantum Science Technology Cooperation Center. 2025.06 ~ 2025.10.
Research on the Functions of Science and Technology Innovation Policy in Response to Technological Hegemony Competition. KISTEP. 2025.05. ~ 2025.11.
The New Leader of K-Content: Naver Webtoon's Journey to Global Domination. Institute for Research in Korean Management. 2025.06 ~ 2026.05.
A Study on Policy Responses to Changes in U.S. Energy and Climate Policy after Trump's Re-election. Korea Energy Agency. 2025.08 ~ 2025.12.

AWARDS & HONORS

2025. KF Global Research Fellow.
2024. 부총리 겸 교육부장관 표창장 Certificate of Commendation from the Deputy Prime Minister and Minister of Education.
2015. Best Paper Award. Real Estate Policy and Market Analysis Papers Competition. Korea Appraisal Board.[7]
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

Yonsei University, Seoul, South Korea
Introduction to Science, Technology and Policy; Computational Policy and Project Analysis
Rise of Modern Science; Management Theories of Technological Innovation
Handong Global University, Pohang, South Korea
Introduction to AI-DS; Introduction to Big Data; Text Mining; Data Science;
Big Data Capstone Design; AI-DS Capstone
Python Programming; App Programming; Introduction to Software
University College Dublin, Dublin, Ireland
Regional Innovation. 2021-Spring
Institut Mines-Télécom Business School (IMT BS), Evry, France
Strategic Management of Intellectual Property Right. 2020-Spring
POSCO, Pohang, Korea
Bahasa Indonesia lecture. 2012.03~06

INVITED LECTURES / TALKS

"Applied Engineering Statistics" at Kyung Hee University. 2017-October.
"NLP & Data Science" at Hyundai Motors Group. 2022-August.
"Understanding and Application of Public Data" at Youngchun-si. 2023-March.
"Smart AI Utilization" at Pohang City Hall. 2023-May.
"Social Science in AI Era" at Uiduk University. 2023-May.
"ChatGPT and Future Education" at Jakarta International University. 2023-June.

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[7] 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.

"Invited Lecture on Vision" at Youngdong High School. 2023-June.

"Big Data Analysis Introduction using Python[8]" at Co-Week Academy. 2023-July.

"ChatGPT Competition" at Hyundai Motors Group. 2023-July.

"Education Practices using ChatGPT" at Daegu University. 2023-October.

"Managing My Own AI Personal Assistant: ChatGPT & Bard" at Hyundai Motors Company. 2023-October.

"Using My Own Conversational Artificial Intelligence: LLaMA-2 WEB UI[9]" at Hyundai Motors Company. 2023-October.

"Artificial Intelligence & Virtual Reality" at Culture Factory. 2023-October.

"Artificial Intelligence & Virtual Reality Education" at AI-Metaverse Educator Training Course. 2023-November.

"Smart Specialisation Strategies and Regional Knowledge Spaces: How to Bridge Vision and Reality" at ChungNam Institute. 2023-December.

"Understanding and Application of Data Visualization" at Youngchun-si. 2024-March.

"Service Planning and Strategy Using Generative AI" at Korea Hydro & Nuclear Power. 2024-April.

"Technological Sovereignty and Strategic Dependence in the AI Era from a Fair-Trade Perspective" at Nepal Word Fair Trade Day. 2024-May.

"Analysis of M&A Trends and Country-specific Patterns in the Entertainment Industry" at Korea Media Management Association. 2024-May.

"Future Trend of Generative AI and Social Change" at Cyber Communication Academic Society. 2024-August.

"AI Chef: Socioeconomic Class Competition" at Hyundai Motors Company. 2024-November.

"Principles of Generative AI and Prompt Engineering" at Research Institute of Sustainable Technology & Innovation Consulting (RISTI). 2024-December.

"Machine Learning Methods in Social Science" at Pusan National University. 2024-December.

"AI Approaches in the Fields of Engineering" at Hyundai Motors Company. 2025-September.

"The Key to Technological Sovereignty: Building Future Core Technology Cooperation Governance through Solidarity with Emerging Asian Countries" at 2025 Youth Public Diplomacy Day. 2025-September.

"Empowering AI Capability for the Next Industrial Paradigm" at Hyundai Motors Company. 2025-September.

(Planned) "Text Analytic Application in Policy Research" at Korea SMEs & Startups Institute. 2025-October.

(Planned) "The Social Impacts of AI agents" at Korea University. 2025-November.

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[8] https://github.com/awekim/LEC_CoWeekBigData_2023
[9] https://github.com/awekim/LEC_MyAI_LLaMA

COMMITTEE

한국언론학회 인공지능과 미디어위원회. Committee on Artificial Intelligence and Media. The Korean Society for Journalism & Communication Studies	2025
한국방송학회 AI 시대 영상산업정책 특별위원회. Special Committee on Video Industry Policy in the AI Era. The Korean Association for Broadcasting & Telecommunication Studies	2025
한국미디어경영학회 연구이사. Research Director. The Korea Media Management Association	2025
연세대학교 아프리카 연구원 연구위원. Research Committee. Institute of African Studies.	2025

SOFTWARE / PROGRAMMING SKILLS

Fluent usage at big data handling, econometric analysis and data visualization using R & Python
Languages: R, Python, SQL
Statistics & Econometric analysis: R, STATA, MATLAB, SPSS, AMOS, Eviews
Network analysis: R, Gephi / Database: SAS, PostgreSQL, MySQL, Neo4j
Web-crawling: R, Python / Text analysis (Natural Language Processing): R, Python
Visualization: R, R Shiny[10]
Intermediate level of engineering modelling and simulation using CATIA V5
Additional software skills: MS-office literacy, Adobe Audition

ACADEMIC SERVICE

Editorial Board in
    Humanities and Social Sciences Communications

Ad-hoc Reviewer in
    Research Policy, Technovation, Journal of Business Research, Humanities and Social Sciences Communications, Economic Geography, Journal of Product Innovation Management, Entrepreneurship & Regional Development, Technological Forecasting and Social Change, Journal of Technology Transfer, Science and Public Policy, Regional Studies, Scientometrics, Technology Analysis and Strategic Management, Scientific Reports, International Reginal Science Review, Policy Sciences, Industry: Organization & Management, Journal of Asian Economics, Journal of the Knowledge Economy, Journal of Construction Engineering and Management, R&D Management, Telematics and Informatics, Information Technology and Management, Plos One, Journal of Civil Engineering and Management, Entrepreneurship & Regional Development, Information Processing and Management, Journal of Intellectual Capital

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[10] 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/