

Curriculum Vitae (2026 Oct.)
Youngho Kim
金榮鎬

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Dept. of Geography Education, Korea Univ.
145 Anam-ro, Seongbuk-gu, Seoul, Korea (02841)

Education

2003 – 2007	Ph.D. in Geography	The Ohio State University Columbus, OH, USA
2000 – 2003	M.A. in Geography	The Ohio State University Columbus, OH, USA
1993 – 2000	B.A. in Geography Education	Korea University Seoul, Korea

Research Interests

Geographic Information Systems and Science
Application of Spatial Data Analysis to Social and Urban problems
Spatial statistics
Urban Geography
Space-time surveillance and point pattern analyses
Regional Study on S.E. Asia
Geography Education

Publications

- Choi, S. and **Kim, Y.** (2026) "A Study on the Concept of GIS in Geography Education in Secondary Schools and Its Educational Implications", The Korean Association Of Geographic And Environmental Education, 34(3), 123-137; DOI : <https://doi.org/10.17279/jkagee.2026.34.3.123> (KCI)
- Kim, S. and **Kim, Y.** (2026) "A Spatial Analysis of Food Deserts in Seoul Integrating Physical and Digital Accessibility", Journal of Korean Cartographic Association, 26(1), 53-68; DOI: <https://doi.org/10.16879/jkca.2026.26.1.053> (KCI)
- Kim, S. and **Kim, Y.** (2025) "Community Detection and Visualization of a Long-Stay Tourism Network Using Unstructured Text Data - A Case Study Of One-Month Travel in Jeollanam-do -", Landscape and Geography , 35(4), 1-14; DOI : <https://doi.org/10.35149/jakpg.2025.35.4.001> (KCI)
- An, Y. and **Kim, Y.** (2025) "Analyzing the Determinants of Housing Prices in Busan Using Functionally Weighted Regression", The Korean Geographical Society, 60(5), 623-637; DOI : <https://doi.org/10.22776/kgs.2025.60.5.623> (KCI)
- Kim, J. and **Kim, Y.** (2025) "Analyzing the Influence of the Seoul Climate Companion Card on the Commercial Sales within Station Areas", Journal of Korean

Cartographic Association, 25(2), 51-70; DOI:
<https://doi.org/10.16879/jkca.2025.25.2.051> (KCI)

● Jin, S. Choi, S. and **Kim, Y.** (2025) "A Comparative Analysis of High School Geographic Information System (GIS) Education in South Korea and China* - Focused on the Textbooks, University Entrance Exams, and Students Interviews -", The Korean Association Of Geographic And Environmental Education, 33(2), 15-30; <https://doi.org/10.17279/jkagee.2025.33.2.15> (KCI)

● Im, C. and **Kim, Y.** (2025) "Methamphetamine spread in the Seoul metropolitan area: Geographical random forest modeling approach", Applied Geography, 174, 103470; <https://doi.org/10.1016/j.apgeog.2024.103470> (SSCI)

● Kim, Y. et al. (2024) 디지털 인문학의 이해
고려대학교 출판 문화원

● Kim, J. and **Kim, Y.** (2024) "An Analysis of the Effectiveness of Urban Regeneration Projects in Seoul using Changes in Commercial District Sales", Journal of the Korean Urban Geographical Society, 27(3), 73-88; 10.21189/JKUGS.27.3.6 (KCI)

● Choi, S., Jin, S., and **Kim, Y.** (2024) "A Comparative Analysis of High School Geographic Information System (GIS) Curriculum in South Korea and China", The Korean Association Of Geographic And Environmental Education, 32(4), 93-108; DOI : 10.17279/jkagee.2024.32.4.93 (KCI)

● Kim, S. and **Kim, Y.** (2024) "Analysis of Personal Mobility Accidents in Seoul, Korea in The Perspective of Urban Social Environmental Characteristics", Journal of Korean Cartographic Association, 24(1), 97-110; <https://db.koreascholar.com/Article/Detail/435006> (KCI)

● An, Y. and **Kim, Y.** (2023) "Multilevel Analysis on the Spatial Distribution of Low-income Elderly Single Households in Seoul", Journal of the association of Korean geographers, 12(4), 629-643; 10.25202/JAKG.12.4.7 (KCI)

● Jung, G. and **Kim, Y.** (2022) "A Spatio-temporal Pattern Analysis of Seoul Bus Use After COVID-19 Outbreaks Using Big Data-based Network Cluster Analysis", Journal of Korean Cartographic Association, 22(1), 35-52; <https://doi.org/10.16879/jkca.2022.22.1.035> (KCI)

● Kim, Y. et al. (2022) 지리학 연구방법론
(Korean translation from the original English book)
Clifford et al. (2016) Key Methods in Geography

● Im, C. and **Kim, Y.** (2021) "Local characteristics related to SARS-Cov-2 transmissions in the Seoul metropolitan area, South Korea", International Journal of Environmental Research and Public Health, 18(23), 12595; <https://doi.org/10.3390/ijerph182312595> (SSCI)

● Im, C. and **Kim, Y.** (2021) "Spatial pattern of tuberculosis (TB) and related socio-

environmental factors in South Korea, 2008-2016", Plos One, 16(8): e0255727; <https://doi.org/10.1371/journal.pone.0255727> (SCIE)

- Jung, G. and **Kim, Y.** (2021) "Modeling of Spatio-temporal changes of Urban Sprawl in Jeju-island: Using CA (Cellular Automata) and ARD (Automatic Rule Detection)", Journal of the association of Korean geographers, 10(1), 139-152; <https://doi.org/10.25202/JAKG.10.1.9> (KCI)
- Im, C. and **Kim, Y.** (2021) "Spatially Filtered Multilevel Analysis on Spatial Inequality of Tuberculosis in Gyeongsangbuk-do, Korea", Journal of Health Informatics and Statistics, 46(1), 88-99; <https://doi.org/10.21032/jhis.2021.46.1.88> (KCI)
- Kim, H. and **Kim, Y.** (2020) "Space-time Network Analysis of Public Bicycle Use and its Visualization Using Spatial Network Autocorrelation", Journal of Korean Cartographic Association, 20(1), 93-106 (KCI)
- Kim, Y. et al. (2019) 도시 공간을 보다
(Korean translation from the original English book)
Gottodiener et al. (2016) Key Concepts in Urban Studies 2nd ed.
- Kim, S. and **Kim, Y.** (2019) "Spatially Filtered Multilevel Analysis on Spatial Determinants for Malaria Occurrence in Korea", INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH, 16(7) (SSCI)
- Park, S. and **Kim, Y.** (2019) "Developing Geographic Research Ability for High-school Students through Fieldwork: Chinatown Area, Incheon", Journal of the association of Korean geographers, 8(1), 19-32 (KCI)
- Kim, S. and **Kim, Y.** (2018) "Hierarchical Bayesian modeling of spatio-temporal patterns of scrub typhus incidence for 2009-2013 in South Korea", APPLIED GEOGRAPHY, 100, 1-11 (SSCI)
- Lee, H. and **Kim, Y.** (2018) "The Effects of Air Force Regulation on the Housing Market Price: The Case of Apartments in the City of Seongnam", *Journal of the association of Korean geographers*, 7(1), 97-113
- Lee, J. and **Kim, Y.** (2017) "'A Newcomer' versus 'First Mover': Retail Location Strategy for Differentiation", *Professional Geographer*, 70(1), 22-33
- Kim, S. and **Kim, Y.** (2017) "Analysis of Spatial Pattern Changes and Its Human and Environmental Factors of the Malaria Risks in Korea", *Journal of Korean Cartographic Association*, 17(1), 71-85
- Oh, C. and **Kim, Y.** (2016) "Exploring Industrial Spatial Cluster of Seoul in Japanese Colonial Period Using AMOEBA Cluster Method", *Journal of Korean Cartographic Association*, 16(1), 41-52
- Im, C. and **Kim, Y.** (2016) "Spatial Socio-environmental Analysis of Tuberculosis in South Korea Using Eigenvector Spatial Filtering Methodology", *Journal of Korean Cartographic Association*, 16(3), 89-101
- Oh, C. and **Kim, Y.** (2016) "Spatial Analysis of Gentrification in Seoul Using Spatial Regression and Filtering Model", *Journal of the Korean Urban Geographical Society*, 19(3), 71-86

- Kim, H. and **Kim, Y.** (2016) “The Analysis of ‘Quest Activity’ Chapters in Korean Geography Textbooks Published under 2009 Revised Curriculum: Focused on ‘Changes in Residential Space’, *Journal of the association of Korean geographers*, 5(3), 241-261
- Lee, E. and **Kim, Y.** (2015) “Spatio-temporal Suitability Analysis of Hooded Crane (*Grus monacha*) in the Suncheon Bay”, *The Geographical Journal of Korea*, 49(4), 465-478
- Oh, C. and **Kim, Y.** (2015) “Spatial Patterns of Industrial Activities in Seoul Under Japanese Colonial Powers: Based on Ethnically Segregated Residential Distribution”, *Journal of Korean Cartographic Association*, 15(3), 91-100
- **Kim, Y.** et al. (2014) 지도학과 지리적 시각화
(Korean translation from the original English book)
Slocum et al. (2009) Thematic Cartography and Geovisualization. 3rd ed.
- Lee, J. and **Kim, Y.** (2014) “Location Suitability Assessment on Marine Afforestation Using Habitat Evaluation Procedure (HEP) and 3D kriging: A Case Study on Jeju, Korea”, *Journal of the Economic Geographical Society of Korea*, 17(4), 771-785
- Lee, M. and **Kim, Y.** (2014) “Location Modeling of CCTV for Crime Prevention in Ansan Using Floating Population and Population Density”, *The Geographical Journal of Korea*, 48(4), 533-546
- Kim, S. and **Kim, Y.** (2014) “Spatial Analysis Modeling on Scrub Typhus Disease Occurrence in Korea”, *Journal of Korean Cartographic Association*, 14(3), 41-54
- Park, Y. and **Kim, Y.** (2014) “A spatially filtered multilevel model to account for spatial dependency: application to self-rated health status in South Korea”, *International Journal of Health Geographics*, 13:6
- Lee, J., Kim, S., and **Kim, Y.** (2013) “Modeling bike road route for commuting transportation to increase bike use in everyday life: Case study of Seoul”, *Journal of the Korean Urban Geographical Society*, 16(3), 117-127
- Kim, S. and **Kim, Y.** (2013) “A Study on the House Price Determinants Model Considering Spatial Attributes of Residential Environment: The Case of Apartment in Seoul”, *Journal of Korean Cartographic Association*, 13(3), 41-56
- Lee, M. and **Kim, Y.** (2013) “Spatial Analysis of CCTV for Crime Prevention Using Multi-level Model in Ansan”, *The Geographical Journal of Korea*, 46(3), 275-289
- Park, S. and **Kim, Y.** (2013) “Space-time cluster research of R&D industry in Seoul, Korea”, *Journal of the Economic Geographical Society of Korea*, 16(3), 492-511
- **Kim, Y.** (2012) “A study on Bike Network Cluster Analysis Using AMOEBA algorithm”, *Journal of the Korean Urban Geographical Society*, 15(2), 77-87

- Park, S. and **Kim, Y.** (2012) “Spatial Analysis of Ground Level Ozone in Seoul, Korea”, *Journal of the Korean Urban Geographical Society*, 15(2), 39-50
- Park, Y. and **Kim, Y.** (2012) “An Evaluation and Suggestion of Photovoltaic Power Plant Locations based on Environmental and Social Impacts, and Sustainability”, *Journal of the Economic Geographical Society of Korea*, 15(3), 438-456
- **Kim, Y.** (2011) “A Study about Bike and Bus Connection Using a Bivariate Measure of Spatial Correlation”, *Journal of the Korean Urban Geographical Society*, 14(3), 55-72
- Park, Y. and **Kim, Y.** (2011) "Agriculture Location Analysis Using Kriging and Analytic Hierarchy Process (AHP)", *Journal of the Korean Cartographic Association*, 11(2), 75-90
- **김영호**, 조대연, 홍순현, 김벼리(2011) “평생학습 권역 설정과 권역별 프로그램 요구분석: 마포구 사례”, *평생교육학연구*, 17(1), 165-189
- **Kim, Y.** and Kirl Kim (2010) “An Analysis on Spatial Informatization Level and Means of Digital Divide Mitigation of Local Governments in Korea”, *Journal of the Korean Urban Geographical Society*, 13(3), 51-61
- **Kim, Y.** (2010) “Spatial network pattern analysis of bicycle use in Seoul based upon spatial network autocorrelation”, *The Geographical Journal of Korea*, 44(3), 339-352
- **Kim, Y.**, Lee, H., and Nam, Y. (2010) “Origin and formation of Jewish Ghetto in the Middle age Venice”, *Journal of Korean Urban Geographical Society*, 13(1), 109-121
- **Kim, Y.** (2009) “An analysis of urban residential crimes using Eigenvector spatial filtering”, *Journal of the Economic Geographical Society of Korea*, 12 (2), 179-194
- **Kim, Y.** (2008) “An application of network autocorrelation model utilizing nodal reliability”, *Journal of the Economic Geographical Society of Korea*, 11 (3), 492-507
- **Kim, Y.** (2008) “The Effects of Spatial Autocorrelation in Spatial Data Analyses”, *The Geographical Journal of Korea*, 4 (3), 1-19
- **Kim, Y.**, and O’Kelly, M. (2008) “A bootstrap based space-time surveillance model with an application to crime occurrences”, *Journal of Geographical Systems*, 10, 141-165
- **Kim, Y.** (2008). “Space-time measures of crime diffusion” Artificial crime analysis systems: using computer simulations and geographic information systems, Lin Liu and John Eck (Eds). New York; Information Science Reference, 140-159
- **Kim, Y.** (2007). “An Analysis of Urban Economic and Social Status Effects to Residential Crimes using Bayesian Hierarchical Modeling”, *Journal of the Korean Urban Geographical Society*, 10, 115-127

Awards & Grants

- 2026~2029 한국연구재단
지방소멸 대응을 위한 관계인구의 재조명: 관계인구 지수의
개발, 지리적 지식 그래프 기반의 관계인구 현황 분석, 행위자
기반 모형을 통한 지역 활성화 시뮬레이션
(30,000 만원- 연구책임자)
- 2022~2025 한국연구재단
시공간 머신러닝을 활용한 코로나 블루 예측 모형 개발 및
시각화
(8,000 만원 – 연구책임자)
- 2017~2019 한국학중앙연구원
HGIS 에 기반한 조선시대 전국지리지의 공간적 재현과
역사지도 제작
(82,200 만원 - 연구책임자)
- 2014~2016 한국연구재단
한국근대 소수자집단의 시공간적 분석: 일제 식민지기
통계자료의 지리정보와 역사적 맥락 분석
(38,000 만원 - 연구책임자)
- 2012~2014 한국학중앙연구원
한국 근대 전자역사지도 편찬
(57,400 만원 – 공동연구원)
- 2012 국토지리정보원
인문지리정보 통합기반 구축 사업 연구용역
- 2012 국토지리정보원
국가지도집 갱신 발간을 위한 기반 연구용역
- 2010 한국연구재단
대중교통 연계를 위한 서울시 자전거와 대중교통 이용의 공간
네트워크 연구 (공간네트워크의 Bivariate measure of Spatial
Correlation 을 기초로)
(1,600 만원 – 연구책임자)
- 2010 마포구청
학습서비스 권역설정을 위한 1 도시 1 컨설팅 지원사업
- 2010 성곡학술재단
서울시 자전거 이용의 공간 네트워크 패턴연구
(,1000 만원 – 연구책임자)
- 2009 고려대학교 입학처 연구과제
전국 고등학교의 대학지원 공간적 패턴연구

- 2009 고려대학교 사범대학 연구과제
아이젠 필터링을 통한 도시주거범죄 분석
- 2007 SAM (Spatial Data Analysis and Methodology) Specialty Group
Student Paper Competition (**2nd place winner**) at 103th Annual
Meeting, The Association of American Geographers.
- 2003 “Analytical crime mapping in urban environment”
Research development award, Criminal Justice Research Center,
The Ohio State University

Teaching experience

**Department of Geography & Geography Education, Korea University (Assistant,
Associate, Full Professor) 2009-Current,**

- Introduction to Human Geography (GEOG153_00)
- Urban Geography (GEOG206)
- Introduction to Geographic Information Science (GEOG303_00)
- Intermediate Geographic Information Science (GEOG459_00)
- Seminar in Geographic Information Science (GEO524_00)
- Population Geography (GEOG204_00)
- Seminar in Population Geography (GEO614_00)
- Digital Cartography (EGE532_00)
- Application of Geographic Information Science (GEO711)

**Department of Geography & Earth Sciences, the University of North Carolina at
Charlotte (Visiting Assistant Professor)**

- | | |
|---|--|
| • Spatial Data Analysis in GIS (GEOG 6404/8404) | Spring 2008 |
| • GPS and GIS Databases (GEOG 4000/5000) | Spring 2008 |
| • Global Connections (LBST 2102) | Autumn 2007 |
| • Introduction to GIS (GEOG 4120/5120) | Summer 2007, Autumn
2007
Spring 2008 |

Department of Geography, the Ohio State University (Graduate Teaching Associate)

- | | |
|---------------------------------------|--|
| • World Regional Geography (GEOG 200) | Spring 2003, Winter 2004,
Spring 2004, Autumn 2004,
Winter 2005, Spring 2005,
Summer 2005, Autumn
2005, Spring 2006, Autumn
2006, Spring 2007 |
|---------------------------------------|--|

T.A. and LAB Instructor, Department of Geography, the Ohio State University

- | | |
|--|--------------------------|
| • Numerical Cartography (GEOG 580) | Winter 2003, Spring 2003 |
| • Intermediate Geographical Information Systems (GEOG 685) | Winter 2006 |
| • Spatial Statistics (GEOG 883.01) | Winter 2007 |

Invited lectures

- “지리정보 시스템과 공간데이터의 분석” 국립암센터 2013
“고교생 창의 교육” 서울시 송파구 2012
“일반인 공무원대상 GIS 교육” 전남대 지역지리정보센터 2012
“일반인 공무원대상 GIS 교육” 전남대 지역지리정보센터 2011
“지리정보시스템을 통한 지도제작과 투영법” 이화여대 2009
“세계화에 따른 도시화와 빈곤문제” 학부모정보 감시단 2009
“Poverty and urban ecological crime analysis” In Economic and Social Geography
2006 Summer
“Exploratory spatial data analyses” In Intermediate GIS
2006 Winter
“Exploratory data analyses” In Spatial Statistics
2007 Winter

Professional Employment

- 2018 – Current **Professor**, Department of Geography Education, Korea University
2013 – 2018 **Associate Professor**, Department of Geography Education, Korea University
2009 – 2013 **Assistant Professor**, Department of Geography Education, Korea University
2008 **Research Fellow**, Habibie Center, Jakarta, Indonesia
2007 – 2008 **Visiting Assistant Professor**, Department of Geography & Earth Science, the University of North Carolina at Charlotte
2004 – 2007 **Instructor**, Department of Geography, the Ohio State University
2003 **Graduate Teaching Assistant**, Department of Geography, the Ohio State University
2001 – 2002 **Graduate Research Assistant**, Department of Geography, the Ohio State University
“Adjusting for migration effects in cancer disease mapping by spatial filtering”

Professional Service

- 고려대학교 교육대학원 부원장 2016 - 2017
고려대학교 미래국토연구소 소장 2015 - Current
고려대학교 지리교육과 학과장 2014 - 2015
고려대학교 교육대학원 지리교육전공 주임교수 2010 - 2012
한국공간정보학회 편집위원 2012 - 2014
한국지리학회 편집이사 2014 - 현재
한국지도학회 편집이사 2013 - 현재
한국지도학회 총무이사 2011 - 2012
국토지리학회 이사 2009 – 현재
Journal Reviewer 2008
Computational Statistics and Data Analysis
Peer-Reviewer 2007
Artificial crime analysis systems: using computer simulations and geographic information systems

Conference Presentations

- **Youngho Kim**, 2012, “An Evaluation and Suggestion of Photovoltaic Power Plant Locations based on Environmental and Social Impacts, and Sustainability”, the Conference on Sustainable Business in Asia, Bangkok, Thailand.
- 김영호, 2012 네트워크 흐름의 상호 의존성을 통한 공간적 상호작용 데이터의 분석, 한국지리학회 하계학술대회. 공주.
- 김영호, 2011 공간적 자기회귀 모델의 적용을 통한 잔차의 공간적 자기상관 수준 분석, 한국지리학회 동계학술대회. 서울.
- 김영호, 2010 서울시 자전거 이용의 공간네트워크 패턴연구: 공간네트워크 자기상관을 중심으로, 대한지리학회 춘계학술대회. 서울
- 김영호, 2009 베이저언 계층 모델을 이용한 도시주거범위의 사회경제적 분석, 한국경제지리학회 춘계학술대회. 서울.
- **Youngho Kim**, 2008, “A space-time surveillance model comparison using simulation”, 104th Annual Meeting, The Association of American Geographers. Boston, MA.
- **Youngho Kim**, 2007, “A new space-time surveillance method for crime occurrences”, 103th Annual Meeting, The Association of American Geographers. San Francisco, CA (SAM Specialty Group Student Paper Competition 2nd place winner)
- **Youngho Kim**, 2006, “Effect of smoothed rates to spatial autocorrelation and its visualization”, 102th Annual Meeting, The Association of American Geographers, Chicago, IL.
- **Youngho Kim** and Michael Tiefelsdorf, 2004, “Bias in OLS standard errors under spatial autocorrelation”, 100th Annual Meeting, The Association of American Geographers, Philadelphia, PA.
- **Youngho Kim** and Michael Tiefelsdorf, 2003, “Analytical crime mapping in urban environment”, 99th Annual Meeting, The Association of American Geographers, New Orleans, LA.
- Michael Tiefelsdorf and **Youngho Kim**, 2002, “Adjusting for migration effects in cancer disease mapping by spatial filtering”, 98th Annual Meeting, The Association of American Geographers, Los Angeles, CA.

Conference Referee

- 2010 Spring Conference on Spatial information

Professional memberships

한국지리학회
지도학회
한국경제지리학회
Association of American Geographer
The Korean Geographical Society