

## **DOHYEONG KIM, Ph.D.**

Professor and Senior Associate Dean of Graduate Education  
School of Economic, Political and Policy Sciences (EPPS)  
Public Policy and Political Economy,  
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### **Education:**

Ph.D. in City and Regional Planning, August 8<sup>th</sup>, 2007, University of North Carolina at Chapel Hill, NC, USA,  
Major field of study: Health Planning and Policy.

*Dissertation title: Strategy for determining vaccination user fees and locations: A case study in rural China, under the direction of Prof. Dale Whittington (funded by the Bill and Melinda Gates Foundation)*

M.A. in Public Administration, August 25<sup>th</sup>, 1999, Yonsei University, Seoul, Korea,  
Major field of study: Health/Environmental Policy and Management

*Thesis title: Estimating the damage of public hazardous facilities using the contingent valuation method: The case of a waste incineration site in Seoul, Korea, under the direction of Prof. Jong Soo Lee (funded by the SBS Seo-Am Scholarship Foundation)*

B.A. in Public Administration, February 23<sup>rd</sup>, 1996, Yonsei University, Seoul, Korea (Magna Cum Laude)

### **Employment:**

Professor, September 2021 – , Public Policy, Political Economy & Geographic Information Sciences Programs,  
School of Economic, Political and Policy Sciences, University of Texas at Dallas, Richardson, TX, USA

Senior Associate Dean of Graduate Education, September 2024 – present, School of Economic, Political and  
Policy Sciences, University of Texas at Dallas, Richardson, TX, USA

Associate Dean of Graduate Education, January 2021 – August 2024, School of Economic, Political and Policy  
Sciences, University of Texas at Dallas, Richardson, TX, USA

Director, Social Data Analytics and Research (SDAR) program, September 2020 – present, School of  
Economic, Political and Policy Sciences, University of Texas at Dallas, Richardson, TX, USA

Associate Professor, August 2013 – August 2021, Public Policy, Geographic Information Sciences Programs,  
School of Economic, Political and Policy Sciences, University of Texas at Dallas, Richardson, TX, USA

Assistant to Associate Professor, August 2008 – July 2013, Department of Public Administration, North  
Carolina Central University, Durham, NC, USA

Research Associate to Post-doc, July 2005 – August 2008, Children's Environmental Health Initiative, Nicholas  
School of the Environment, Duke University, Durham, NC, USA

Research/Teaching Assistant, August 2000 – May 2005, Department of City and Regional Planning, University of North Carolina, Chapel Hill, NC, USA

Researcher, October – December 1999, Regional Economies Division, Korea Research Institute for Human Settlements, Anyang, Korea

Research/Teaching Assistant, March 1997 – August 1998, Department of Public Administration, Yonsei University, Seoul, Korea

### **Professional Recognitions and Honors:**

Award of Appreciation, July 2024, Asia Disaster Preparedness Center (ADPC)  
Excellence in Leadership Award, April 2024, SKPA Section on American Society of Public Administration  
President's Teaching Excellence Award (Online and Blended Instruction), April 2023, UT-Dallas  
Selected to Participated in the Road to D.C Program, Spring 2023, The University of Texas at Dallas  
Best Article Award for Senior Scholar, July 2022, Asian Association of Crisisonomy  
Undergraduate Research Scholar Awards (Faculty Sponsor), 2018, 2020, 2021, 2022, 2023, UT-Dallas  
UT Dallas EPPS Teaching Award (Distinguished Graduate Teaching), April 2020, UT-Dallas  
Special Faculty Development Assignment, Fall 2019, The University of Texas at Dallas  
Nominated for President's Teaching Excellence Award, Spring 2019, Spring 2020, Spring 2023, The University of Texas at Dallas  
Visiting Instructor, Tecnologico de Monterrey – Mexico (2023), Seoul National University – South Korea (2014-2024), Yonsei University – South Korea (2014-2024), Kookmin University – South Korea (2020-2021), Universidad Catolica de Santa Fe - Argentina (2018), BRAC University – Bangladesh (2014), Hanyang University – South Korea (2013), Korea University – South Korea (2011-2012)  
Award of Appreciation, January 2018, UTD Korean Student Association  
Outstanding Teaching Comet Award, 2014 (Winner), 2015, 2016 (Honorable Mention), School of Economic, Political, and Policy Sciences, The University of Texas at Dallas  
Award of Appreciation, May 2013, MPA Class of 2013, North Carolina Central University  
Research Travel Award, October 2012, NCCU Foundation, Inc.  
Research Fellow, July 2011 – July 2012, Institute for Poverty Alleviation and International Development  
Faculty Development Award, February 2011, Office of International Affairs, North Carolina Central University  
Finalist for the Award for Teaching Excellence, January 2011, North Carolina Central University  
Preparing Future Faculty Fellow, August 2007 – May 2008, Duke University Graduate School  
New Investigators in Global Health (NIGH) Award, May 2008, Global Health Council  
Graduate Student Travel Award, October 2004, Graduate School, UNC at Chapel Hill  
Student Travel Award, November 2002, Consortium on Development Studies  
Scholarship for the Economics of Urban Sprawl and Land Use Change, June 2002, Donald Bren School of Environmental Science and Management, University of California at Santa Barbara  
Superior Graduate Student Award, May 1998 – August 1999, SBS Seo-Am Academic Foundation  
Best Teaching Assistant Award, 1998, Yonsei University  
Undergraduate Scholarships of Academic Excellence, 1990 -1996, Yonsei University

### **Professional Memberships:**

American Society for Public Administration, International Society for Crisis and Emergency Management, American Public Health Association, Korean Association for Policy Studies, Society for Benefit-Cost Analysis, Korean Association for Public Administration, Association of American Geographers, Association of Public Policy Analysis and Management, Global Health Council, 2008-2013; Association of Collegiate Schools of Planning

**Achievements in Original Investigation:** (2087 citations as of January 2025: h-index = 25)  
(\*student co-author)

Book edited:

1. Lee W., Ko K., Kim T., **Kim D.**, (Ed.). 2020, *U.S. Public Administration and Policy: Perspectives from South Korean Scholars* (1<sup>st</sup> ed.). Goyang, Korea: Daeyoung Munhwas Publishing Co. (in Korean).

Articles in refereed journals:

2. Kim D,\* Shin D.\*, **Kim D.**, Kwon B., Min C., Geevarghese G.\*, Kim S., Hwang J., Seo S., 2024, The joint effect of temperature and humidity on airborne fungi and bacteria concentration in indoor environment: a machine learning approach for cost-effective intervention, *Building and Environment*, forthcoming.
3. Lee, K., Kim T., Im S., Lee J., Jeong S., Shin H., Kim M., Lee J., **Kim D.**, Choi G., Kang D., Seo S., Lee S., 2024, "A wearable stethoscope for accurate real-time lung sound monitoring and automatic wheezing detection based on an AI algorithm," *Engineering*, forthcoming.
4. Chen, Y., Dolladille C., Rao, A. Palaskas N., Lehmann L., Cautela J., Courand, P., Hayek S., Zhu H., Cheng R., Alexandre J., Baldassarre L., Roubille F., Laufer-Perl M., Asnani A., Ederhy S., Tamura Y., Francis S., Gaughan E., Johnson D., Flint D., Rainer P., Ewer S., Aras M., Arangalage D., Cariou E., Florido R., Peretto G., Zadock O., Akhter N., Narezkina A., Levenson J., Liu Y., Cruzs S., Issa N., Piriou N., Leong D., Sandhu S., Moliner P., Obeid M., Ruf T., Chang W., Stewart A., Venkatesh V., Du Z.\*, Yadavalli A.\*, **Kim D.**, Chandra A., Zhang K., Power J., Moslehi J., Salem J., Zaha V., 2024, "Risk factors of left ventricular systolic dysfunction in immune checkpoint inhibitor-myocarditis," *JACC CardioOncology*, forthcoming.
5. Kwon B., **Kim D.**, Shim K., Nguyen C.\*, Lee H., Kang D., Kim H., Seo S., 2024, Area-specific monitoring of stratum corneum hydration and transepidermal water loss among dermatitis patients, *Dermatology Research and Practice*, forthcoming.
6. **Kim D.**, Kim H., Hwang M., Lee Y., Min C., Yoon S., Seo S., 2024, "Enhancing particulate matter estimation in livestock farming areas with a spatiotemporal deep learning model," *Atmosphere*, forthcoming.
7. Carson R., Hanemann M., **Kim D.**, Shin H.\*, Whittington D., 2024, "The attitude-behavior dichotomy in the time of COVID-19: an exploration using generalized structural equation modeling", *Singapore Economic Review*, 69(4): 1571-1599.
8. Taylor, L., Hong A., Hahm K\*, **Kim D.**, Smith-Morris C., Zaha V., 2024, "Health literacy, individual and community engagement, and cardiovascular risk and disparities: state-of-the-art review," *JACC CardioOncology*, 6(3): 363-380.
9. Jeong, D.\*, Hanson-Defusco, J., **Kim D.**, Lee C., 2024, "Digital mass hysteria during pandemic? a study of Twitter patterns in the US during the stage of COVID-19 vaccination," *Behavioral Sciences*, 14(5): 389.

10. Kim P.\*, Maxwell S., Parijat N., **Kim D.**, McNeely C., 2024, "Targeted tick-borne disease recognition: assessing risk for improved public health," *Healthcare*, 12(10): 984.
11. Lee, S., Ryu S., Sul W., Kim S., **Kim D.**, Seo S., 2024, "Association of exposure to indoor molds and dampness with allergic diseases at water-damaged dwellings in Korea," *Scientific Reports*, 14(135): 2024.
12. Lee, Y., Hu J., Park I., **Kim D.**, Chiang T., Shelley M., Liu, C., 2024, "Examining the association between medical marijuana legalization and criminal behaviors: evidence from a U.S. representative sample." *Substance Use and Misuse*, 59(1):119-125.
13. **Kim D.**, Jeong D., Lee C., 2024, "Building a knowledge information platform focused on disaster safety cases: lessons from the U.S. disaster safety case management system," *Crisisonomy*, 20(10):1-14. (in Korean)
14. Hanson-Defusco, J., Dunn W., **Kim D.**, 2023, "Cascading effects of problem structuring errors on global health policy: implementation, ineffectiveness and failure," *International Journal of Policy Studies*, 14(1):29-62.
15. Im S.\*, Kim T., Min C., Kang S., Rho Y., Kim C., Kim M., Kim S., Shim K., Koh J., Han S., Lee J., **Kim D.**, Kang D., Seo S., 2023, "Real-time counting of wheezing events from lung sounds using deep learning algorithms: implications for disease prediction and early intervention," *PLOS ONE*, 18(11): e0294447.
16. Cho, S., **Kim D.**, Khan H.\*, Lee C., 2023, "Heinrich's law for traffic incidents? using the digital tachograph data to identify traffic accident hotspots," *Traffic and Transportation*, 35(6):829-837.
17. Odusola A., Jeong D.\*, Malolan C., **Kim D.**, Venkatraman C, Kola-Korolo O., Idris J., Olaomi O., Nwariaku F., 2023, "Spatial and temporal analysis of road traffic crashes and ambulance responses in Lagos state, Nigeria," *BMC Public Health*, 23:2273.
18. Mehta, A. \*, **Kim D.**, Odusola A., Allo N., Malolan C., Nwariaku F., 2023, "Using parallel geocoding to analyze spatial characteristics of road traffic injury occurrences across Lagos, Nigeria," *BMJ Global Health*, 8:e012315.
19. Maxwell S., Brooks C., **Kim D.**, McNeely C., Cho S.\*, Thomas K., 2023, "Improving surveillance of human tick-borne disease risks: a spatial analysis using multimodal databases," *JMIR Public Health and Surveillance*, 9(1):e43790.
20. Jeong, D.\*, **Kim D.**, Mohiuddin H. \*, Kang S., Kim S., 2023, "Regional disparity in educational impact of COVID-19: a spatial difference-in-difference approach," *Sustainability*, 15(16):12514.
21. Ogbudebe C., Jeong D.\*, Odume B., Chukwuogo O., Useni S., Dim C., Okuzu O., Malolan C., **Kim D.**, Nwariaku F., Nkiru N., Gande S., Nongo D., Eneogu R., Odusote T., Oyelaran S., Chijioke-Akaniro O., Gidado M., Anyaike C., 2023, Identifying hotspots of tuberculosis in Nigeria using Early Warning Outbreak Recognition System (EWORS): retrospective analysis of implications for active case finding intervention, *JMIR Public Health and Surveillance*, 9(1):e40311.

22. Maxwell S., Brooks C., Kim P.\*, **Kim D.**, Thomas K., 2023, "Understanding habitats and environmental conditions of white-tailed deer population density and public health data to aid in assessing human tick-borne disease risk," *Microorganisms*, 11(4): 865.
23. **Kim D.**, Carson R., Whittington D., Hanemann M., 2023, "Support for a regulation versus compliance: an illustration using face masks," *Public Health in Practice*, 5; 100324.
24. Seo S., Min C., Preston M.\*, Han S., Choi S., Kang S., **Kim D.**, 2022, "Ambient PM concentrations as a precursor of emergency visits for respiratory complaints: roles of deep learning and multi-point real-time monitoring", *Sustainability*, 14(5):2703.
25. Salam, S.\*, Mehta A., **Kim D.**, Seyi-Olajide J., Allo N., Malolan C., Nwariaku F., Khan L. 2022, "Improving Lagos State emergency medical services by analysing road traffic accident data, response time and efficient allocation of ambulances," *Lancet Global Health*, 10(S26). doi: 10.1016/S2214-109X(22)00155-3.
26. **Kim D.**, Cho S.\*, Mohiuddin H.\*, Shin W. Roh Y., Seo S., 2022, "Spatial modeling for radon concentrations in subway stations in Seoul, Korea", *Environmental Science-Processes & Impacts*, 24:116-126.
27. Salam, S.\*, Islam M., Ahmed F., Khan L., **Kim D.**, Allo N., Nwariaku F., 2021, "Exploring the roles of social media data to identify the locations and severity of road traffic accidents," *IEEE Fourth International Conference on Artificial Intelligence and Knowledge Engineering*, doi: 10.1109/AIKE52691.2021.00016.
28. **Kim D.**, Yum Y.\*, George K.\*, Kwon J., Kim W., Baek H., Suh D., Yang H., Yoo Y., Yu J., Lim D., Seo S., Song D., 2021, "Real-time low-cost personal monitoring for exposure to PM 2.5 among asthmatic children: opportunities and challenges", *Atmosphere*, 12(9):1192.
29. Bhat, G.\*, Shankar N.\*, **Kim D.**, Song D., Seo S., Panahi I., Tamil L., 2021, "Machine learning-based asthma risk prediction using IoT", *IEEE Access*, 9:118708-118715.
30. Park, J., Choi S., **Kim D.**, Boots D., Lee C., 2021, "Role of technology in sustainable gambling: policy effects of electronic card system and limit setting," *Mathematical Problems in Engineering*, 2021:1779535.
31. **Kim D.**, Choi H.\*, Gal W., Seo S., 2020, "Temporal trends of particulate matter concentrations in Korean regions (2015-2019): when to ventilate?" *International Journal of Environmental Research and Public Health*, 17(16):5764.
32. **Kim D.**, Kim, J., Seo S., 2020, "Real-time measurement of indoor PM concentrations on daily change of endocrine disruptors in urine samples of new mothers: a feasibility study", *Sustainability*, 12(15):6166.
33. Kim H.\*, **Kim D.**, Paul C., Lee C., 2020, "Spatial allocation of hospitals with negative pressure isolation rooms in Korea: Are we prepared for new outbreaks?", *International Journal of Health Policy and Management*, 9(11):475-483.
34. **Kim, D.**, Maxwell S., Le Q.\*, 2020, "Spatial and temporal comparison of perceived risk and confirmed cases of Lyme disease: evidence from Google Trends," *Frontiers in Public Health*, 8:395.

35. Kim, J., **Kim D.**, Moon S.\*, Yang E.\*, 2020, "Association of lifestyle factors with phthalate metabolite, bisphenol A, paraben and triclosan concentrations in breastmilk of Korean mothers," *Chemosphere*, 249:126149.
36. Kim S., Kwon S., Lee J., Ahn B., Lee J., Chen A., Kitagawa K., **Kim D.**, Wang J., 2020, "Analyzing the role of resource factors in citizens' intention to pay for and participate in disaster management," *Sustainability*, 12(8):3377.
37. McKey, T.\*, **Kim D.**, Seo S., 2020, "Food deserts reconsidered: using crowdsourced geographic information to measure healthy food accessibility", *Frontiers in Public Health*, 8(71):1-6.
38. Jung, Y.\*, **Kim D.**, Piquero, A., 2020, "Spatiotemporal association between temperature and assaults: a generalized linear mixed model approach," *Crime and Delinquency*, 66(2):277-302.
39. Lee J., **Kim D.**, Chen A., Kitagawa K., Won J., You S., Sharma G., Azam M., Song M., An L. \*, 2020, "Disaster preparedness, vulnerability and resilience: review of theories and implementations," *Crisisonomy*, 16(5):133-154.
40. **Kim D.**, Cho S., Tamil L., Song D., Seo S., 2019, "Predicting asthma attacks: effects of indoor PM concentrations on peak expiratory flow rates of asthmatic children", *IEEE Access*, 8:8791-8797.
41. Min, S.\*, **Kim D.**, Lee C., 2019, "Association between spatial accessibility to fire protection services and unintentional residential fire injuries or deaths: a cross-sectional study in Dallas, Texas," *BMJ Open*, 9(5):e023780.
42. Cease, B.\*, Kim H.\*, **Kim D.**, Ko Y., Cappel C., 2019, "Barriers and Incentives for sustainable urban development: an analysis of the adoption of LEED-ND projects", *Journal of Environmental Management*, 244(15):304-312.
43. Wi, C., Wheeler P., Kaur H., Ryu E., **Kim D.**, Juhn Y., 2019, "Spatio-temporal comparison of pertussis outbreaks in Olmsted County, Minnesota, 2004-5 and 2012: a population-based study," *BMJ Open*, 9(5):e025521.
44. Venkatraman, C., Kim H.\*, Idowu A., Idris J., Hynan L., **Kim D.**, Nwariaku F., 2019, "When policy meets the pedal: a reduction in motorcycle deaths in Lagos, Nigeria," *Traffic Injury Prevention*, 20(8):849-853.
45. Vyas, P.\*, **Kim D.**, Adams A., 2019, "Understanding spatial and contextual factors influencing intra-regional differences in child vaccination coverage in Bangladesh," *Asia-Pacific Journal of Public Health*, 31(1):51-60.
46. Eom, Y.\*, **Kim D.**, Roh S., Lee C., 2019, "National reputation as an intangible asset: a case study of the King Sejong Institute in Korea," *International Review of Public Administration*, 24(2):101-116.
47. **Kim, D.**, Kim H., 2019, "Voting turnout and population health status in the OECD countries: the role of healthcare systems," *Journal of Safety and Crisis Management*, 9(1):15-17.

48. **Kim, D.**, Seo, S., Min S.\*, Simoni Z., Kim S., Kim M., 2018, "A closer look at the bivariate association between ambient air pollution and allergic diseases: the role of spatial analysis," *International Journal of Environmental Research and Public Health*, 15(8):1625.
49. Jang, Y.\*, **Kim D.**, Kim, D., Park J., 2018, "Conditional effects of open-street closed-circuit television (CCTV) on crime: a case from Korea," *International Journal of Law, Crime and Justice*, 53(6):9-24.
50. Tso, Y.\*, **Kim, D.**, Lee C., 2018, "Equity in voting accessibility: the case of North Carolina," *Crisisonomy*, 14(11):185-199.
51. **Kim, D.**, 2018, "Lessons from the U.S. building or structure fires: causes and responses," *Contingencies and Crisis Management Review*, 2(2):1-16 (in Korean).
52. Byun, S., Lee J., **Kim D.**, Na J., Yang G., Lee J., Kim A.\*, Kim G.\*, 2018, "Public-private partnership for operating safety experience and education center: a comparative analysis of the US, Canada and Japan," *Crisisonomy*, 14(2):153-173 (in Korean).
53. Byun, S., **Kim D.**, Lee J., Na J., Cho S., Kim G.\*, 2018, "Rebuilding a support system for vulnerable populations in disasters: lessons from USA and Japan," *Crisisonomy*, 14(5):15-34 (in Korean).
54. Yang G., **Kim D.**, Pham A.\*, Paul C., 2018, "A meta-regression analysis of the effectiveness of mosquito nets for malaria control: the value of long-lasting insecticide nets," *International Journal of Environmental Research and Public Health*, 15(3):546.
55. **Kim, D.**, Zhang Y.\*, Lee C., 2018, "Understanding needs and barriers to using geospatial tools for public health decision making in China," *Geospatial Health*, 13(594):79-85.
56. **Kim, D.**, Brown Z., Anderson R., Mutero, C., Miranda, M.L., Wiener, J., Kramer R., 2017, "The value of information in decision-analytic modeling for malaria control in Africa," *Risk Analysis*, 37(2):231-244.
57. **Kim, D.**, Seo D., Lee C., 2016, "Food deserts in Korea? A GIS analysis of food consumption patterns at the sub-district level in Seoul using the KNHANES 2008-2012 data," *Nutrition Research and Practice*, 10(5):530-536. [Reprinted in *AI: Food Security*, New York: Greenhaven Publishing LLC, 2020.]
58. Shim, E.\*, **Kim D.**, Woo H., Cho Y., 2016, "Designing a sustainable noise mapping system based on citizen scientists' smartphone sensor data," *PLOS ONE*, 11(9):e0161835.
59. **Kim, D.**, Malabika S., Vyas P.\*, 2016, "Role of spatial tools in public health policymaking of Bangladesh: opportunities and challenges," *Journal of Health, Population and Nutrition*, 35(1):8.
60. Bae, K.\*, **Kim D.**, 2016, "The impact of decoupling of telework on job satisfaction in U.S. federal agencies: does gender matter?," *American Review of Public Administration*, 46(3):356-371.
61. Seo S., **Kim D.**, Min S.\*, Paul C.\*, Yoo Y., Choung J., 2016, "GIS-based association between PM<sub>10</sub> and allergic diseases in Seoul: implications for health and environmental policy," *Allergy, Asthma and Immunology Research*, 8(1):32-40.

62. Wigfall, P., **Kim D.**, 2016, "Going up in Smoke: Constructing, Thorough Policy, Smoking and Tobacco Production Waste as an Environmental Pollution Problem," *Journal of Safety and Crisis Management*, 6(1):27-33.
63. Kim, T., Hwang S., Seo S., **Kim D.**, 2015, "A study on developing cloud system for local governments," *Journal of Korean Association for Regional Information Society*, 18(1):85-107. (in Korean)
64. Wigfall, P., **Kim D.**, 2014, "A new direction in addressing the crisis in health care service delivery: a study of local intervention model," *Journal of Safety and Crisis Management*, 4(2):48-59.
65. **Kim D.**, Yang, G., Min S.\*, Koh C., 2014, "Social and ecological impact of the Hebei Spirit Oil Spill on the west coast of Korea: implications for compensation and recovery," *Ocean & Coastal Management*, 102:533-544.
66. **Kim, D.**, Lauria D.T., Whittington D., 2014, "Selecting optimal prices and outpost locations for rural vaccination campaigns," *International Regional Science Review*, 37:436-458.
67. Seo, S., **Kim D.**, Paul C.\*, Yoo Y., Choung J., 2014, "Exploring household-level risk factors for self-reported prevalence of allergic diseases among low-income households in Seoul, Korea," *Allergy, Asthma & Immunology Research*, 6(5):421-427.
68. **Kim, D.**, Lauria D.T., Poulos C., Dong B., Whittington D., 2014, "Effect of travel distance on household demand for typhoid vaccines: Implications for planning," *International Journal of Health Planning and Management*, 29(3):e261-276.
69. Lee, Y.\*, **Kim D.**, 2014, "Image Restoration Strategies Used in Public Apologies by President Lee MB and Park GH in Korea," *Journal of the Korean Association for Crisis and Emergency Management*, 6(1):1-18. (in Korean)
70. **Kim D.**, 2013, "Improving alternative designs for discrete choice models in estimating willingness-to-pay for public services," *Journal of Safety and Crisis Management*, 3(2):1-20.
71. **Kim, D.**, Fedak C.\*, Kramer R., 2012, "Reduction of malaria prevalence by indoor residual spraying: A meta-regression analysis," *American Journal of Tropical Medicine and Hygiene*, 87(1):165-170. (published as a featured article)
72. Poulos, C., Riewpaiboon A., Stewart J.F., Clemens J., Guh S., Agtini M., Sur D., Islam Z., Lucas M., Whittington D., Nyamete A., Malik R., Nadjib M., Chatterjee S., Macuamule A., Maskery B., Cook J., **Kim D.**, Lauria D., Jeuland M., 2012, "Cost of illness due to endemic cholera," *Epidemiology and Infection*, 18:1-10.
73. **Kim, D.**, Miranda M.L., Tootoo J.L., Bradley P., Gelfand A., 2011, "Spatial modeling for groundwater arsenic levels in North Carolina," *Environmental Science & Technology*, 45(11):4824-4831.
74. Campbell, K.R.\*, Lawson T.\*, **Kim, D.** (corresponding author), 2011, "Eradication of food deserts through public policy: Case of Durham, North Carolina," *Journal of Safety and Crisis Management*, 1(2):23-30.



75. **Kim, D.**, 2011, "Saving national heritage: cost-benefit analysis for policy alternatives of protecting Cape Hatteras Lighthouse in North Carolina," *Journal of Safety and Crisis Management*, 1(1):17-34.
76. Poulos, C., Riewpaiboon A., Stewart J., Clemens J., Guh S., Agtini M., Anh D., Dong B., Bhutta Z., Sur D., Whittington D., Nyamete A., Malik R., Nadjib M., Yanning G., Canh D., Thiem D., Yen B., Maskery B., Cook J., **Kim D.**, Lauria D., Jeuland M., Chatterjee S., 2011, "Cost of illness due to typhoid fever in five Asian countries," *Tropical Medicine & International Health*, 16(3):314-323.
77. Miranda, M.L., Maxson P., **Kim D.**, 2010, "Early childhood lead exposure and exceptionality designations for students," *International Journal of Child Health and Human Development*, 3(1):77-84.
78. Miranda, M.L., **Kim D.**, Reiter J., Overstreet A., Maxson P., 2009, "Environmental contributors to the achievement gap," *Neurotoxicology*, 30:1019-1024.
79. Koo, J., Bae J., **Kim D.**, 2009, "What does it take to become a biotech hot spot?" *Environment and Planning C: Government and Policy*, 27:665-683.
80. **Kim, D.**, Overstreet M.A., Hull A., Miranda M.L., 2008, "A framework for widespread replication of a highly spatially resolved childhood lead exposure risk model," *Environmental Health Perspective*, 116(12):1735-1739.
81. Dong, B., Wu X., Yang J., Gong J., Wu X., Poulos C., **Kim D.**, Nyamete A., Clemens A., 2008, "Study on willingness to pay for typhoid Vi vaccine in Lingchuan County, Guangxi Zhuang Autonomous Region," *Chinese Journal of Vaccines and Immunization*, 14(6):481-484. (in Chinese)
82. **Kim, D.**, Canh D.G., Poulos C., Thoa L.T.K., Cook J., Hoa N.T., Nyamete A., Thuy D.T.D., Deen J., Son N.D., Clemens J., Thiem V.D., Anh D.D., and Whittington D., 2008. "Private demand for cholera vaccines in Hue, Vietnam," *Value in Health*, 11(1):119-128.
83. Miranda, M.L., Keating M., **Kim D.**, Hull A.P., Paul C.J., Overstreet M.A., 2007, "Blood lead and water treatment: Miranda et al. respond," *Environmental Health Perspective*, 115(10):A488-A489.
84. Miranda, M.L., **Kim D.**, Overstreet M.A., Paul C.J., Hull A.P., Morgan S.P., 2007, "The relationship between early childhood blood lead levels and performance on end of grade tests," *Environmental Health Perspective*, 115(8):1125-1160. (published as a featured article)
85. Miranda, M.L., **Kim D.**, Hull A.P., Paul C.J., Overstreet M.A., 2007, "Changes in blood lead levels associated with use of chloramines in water treatment systems," *Environmental Health Perspectives*, 115(2):221-225.
86. Canh, D.G., Whittington D., Thoa L.T.K., Utomo N., Hoa N.T., Poulos C., Thuy D.T.D., **Kim D.**, Nyamete A., and Acosta C., 2006, "Household Demand for Typhoid Fever Vaccines in Hue, Vietnam," *Health Policy and Planning*, 21(3):241-255.

Peer-reviewed articles or chapters in edited volumes:

87. **Kim, D.**, Yoon J. 2021, "The future of telemedicine? policy and regulatory debates in South Korea," published in the *NASPAA Publicases* (<https://www.publicases.org/case/the-future-of-telemedicine-policy-and-regulatory-debates-in-south-korea/>).

88. **Kim, D.**, 2020, "Why does the U.S. fail to control COVID-19? A Health Policy Perspective" In 2020, *U.S. Public Administration and Policy: Perspectives from Korean Scholars*, edited by Lee W. et al., Seoul, Korea: Daeyoung Munhwasa Publishing Co., pp. (in Korean).
89. **Kim, D.**, Min S.\*, Kim H.\*, 2020, "Korean health policies" In *Routledge Handbook of Korean Politics and Public Administration*, edited by Moon J. and Moon M., New York, NY: Routledge, pp.484-498.
90. Cho, S., **Kim D.**, 2020, "Demand-based emergency dispatch system: role of spatiotemporal machine learning" In *Geospatial Technologies for Urban Health*, edited by Lu Y. and Delmelle E., Basel, Switzerland: Springer International Publishing, pp.113-129.
91. **Kim, D.**, 2019, "From smart to smarter with citizen participation: lessons from Songdo U-City project," in *Korean Cases in Public Administration for Training and Practice: Cases in Citizen-Centered and Collaborative Governance*, Korea Institute of Public Administration (KIPA) Case Study Series 4, pp.89-114.
92. **Kim, D.**, Kim H.\*, Moon J., 2018, "Conflict Management using Public Participation GIS (PPGIS): Locating Undesirable Public Facilities in South Korea," published in the *NASPAA Publicases*, (<https://www.publicases.org/case/conflict-management-using-public-participation-gis-ppgis-locating-undesirable-public-facilities-in-south-korea/>).
93. Zaychik, D.\*, **Kim D.**, 2018, "U.S. public health surveillance systems in response to disasters: processes and challenges." Ch.11 in *Readings in American State and Local Government*, edited by Holmes J. and Miller B., Kendall Hunt. ISBN: 978-1-5249-6125-1.
94. **Kim, D.**, 2016, "Public Health Crisis in South Korea: Policy Failure or Social Trust?" in *Korean Cases in Public Administration for Training and Practice*, Korea Institute of Public Administration (KIPA) Case Study Series 1, Daeyoung Moonhwasa Publishing Co., pp.193-225.

Professional report or online publications:

95. Preventive Measures for the Five Major Crimes in Gyeongsangnam-do, Final Research Report for Gyeongsangnam-do Autonomous Police Commission, April 2024. (in Korean). (with Kim D. et al.)
96. Korean Policy Scholars in the United States: Past, Present and Future, The KAPS, December 2023. (in Korean)
97. A Report on Special Judicial Police, Final Report of Korean Institute of Criminology and Justice, December 2022. (in Korean). (with Park J. et al.)
98. Applications of Spatial Big Data for Response to Disaster Risks (II): Social Disasters, Safety Chungnam Issue Brief, December 2020. (in Korean).
99. Applications of Spatial Big Data for Response to Disaster Risks (I): Natural Disasters, Safety Chungnam Issue Brief, November 2020. (in Korean).
100. Research on Strengthening the Efficacy of Criminal Policy for Public Safety (III): A Study on the Actual Condition of Safety and Improvement of the Concentrated Poverty Neighborhood, December 2018. (with Park J. et al.)

101. Research on Strengthening the Efficacy of Criminal Policy for Public Safety (II): Improving Safety in Single-Person Household Concentration Areas, December 2017. (with Park J. et al.)
102. Preparedness for Vulnerable Populations During Large-Scale Disasters, Final Report to the Korea Disaster Relief Association, December 2017. (with La J. et al.)
103. Malaria Decision Analysis Support Tool (MDAST): Evaluating health, social and environmental impacts and policy tradeoffs, Project Implementation Report, June 2013. (with Kramer R. et al.)
104. Malaria Decision Analysis Support Tool (MDAST): Evaluating health, social and environmental impacts and policy tradeoffs: User Manual, June 2013. (with Brown Z. et al.)
105. Lessons from other countries on social cohesion: in preparation for North-South Korean cultural community after reunification, Ministry of Culture, Sports and Tourism in Korea, December 2012. (with Lee W. et al.)
106. The impact of early childhood lead exposure on educational test performance among Connecticut schoolchildren, Phase I Report, Durham, NC: Children's Environmental Health Initiative, Duke University, February 2011. (with Miranda M.L. et al.)
107. The impact of information and communication technologies on employment environment in the U.S., National Information Society Agency, NIA II-PER-10002, August 2010. (with Kim Y. et al)
108. A targeted screening policy for preventing childhood lead poisoning, Seoul Metropolitan Council, January 2010. (with Choi J. et al)
109. Lead hazards in housing: Childhood lead exposure in Washington's communities, Community, Trade, and Economic Department, State of Washington, United States, December 2005. (with Bergman et al)
110. Willingness-to-pay for typhoid fever vaccines for adults and children in Guilin, China, Report to International Vaccine Institute, November 2005. (with Poulos, C. et al.)

Articles under review or revision

1. Hanson-Defusco, J., DeFusco A., **Kim D.**, "Politics, pandemics and preparedness: what were the effects of good governance on national COVID-19 responses worldwide?" *Journal of Social and Economic Development*, under review.
2. Jeong, D.\*, **Kim D.**, Okuzu O., Ogbudebe C., "Beyond distance: does geographic accessibility for tuberculosis treatment follow supply, demand or both?", *Health & Place*, under review.
3. Kim, P.\*, **Kim D.**, Scotch R., Jung D., Kowalske K., "Geospatial analysis of community-level social and environmental barriers for adult burn injury survivors in North Texas," *Burns*, under review.
4. Anh, P.\*, Trang L., **Kim D.**, "Unlocking determinants of recruitment and retention of family physicians in rural Vietnam: insights from a discrete choice experiment," *Health Policy*, under review.

Works in progress

5. Kim P.\*, **Kim D.**, Min C., Jeong J., Kumar P.\*, Hwang J., Song D., "Using deep learning to identify asthmatic children who are sensitive to PM exposure: the road to personalized risk prediction and intervention," in preparation for *Journal of Allergy and Clinical Immunology*.
6. Jeong, D.\*, **Kim D.**, "From local coordination to threshold systems: a spatiotemporal analysis of COVID-19 therapeutic distribution disparities," in preparation for *Journal of Public Health Policy*.
7. Hong, I., Lim D., Kim D., Hong M., Kang S., Ji K., Oh T., Hwang S., Roh Y., Gong D., Kwon G., Kim T., Im C., Kim E., Lee J., Kim S., Kim J., Kim S., **Kim D.**, Shim K., Seo S., Koh J., Han S., Kang D., "Breathable skin health analyzer for reliable long-term monitoring of individual level environmental health," in preparation.
8. Roh, Y., Kim, P., **Kim D.**, Seo S., "The influence of geological, soil and construction factors on indoor radon concentrations in Jeonbuk Province, South Korea," in preparation.
9. Kim, P.\*, Lee H., Okumu B., **Kim D.**, Kibosia C., Hong N., Kemoli A., Ndegwa L., Abullahl O., "Geospatial analysis on the impact nurse and midwife training in maternal and child oral health in Kilifi County," in preparation.
10. Jeong, D.\*, Cho S., Cho S., **Kim D.**, "Enhancing emergency medical services through spatiotemporal demand forecasting and resource optimization: a deep learning approach," in preparation.
11. Kim, P.\*, **Kim D.**, Lee C., "Bayesian spatiotemporal analysis for policy evaluation using big data: estimating the effects of social distancing policies with Google mobility data," in preparation.
12. Kim, P.\*, **Kim D.**, Kowalske K., Scotch R., "The geography of community integration for burn injury survivors: a comparative analysis across multiple metropolises," in preparation.

Invited Presentations: International meetings

1. **Kim D.**, "Knowledge information platform on disaster safety cases: the lessons from the U.S.", Incheon National University, Incheon, Korea; January 2025.
2. **Kim D.**, "Spatiotemporal big data analytic approach to improve emergency response," East China Normal University, Shanghai, China; October 2024.
3. **Kim D.**, "Spatiotemporal big data analytics for health policy," Shenzhen University, Shenzhen, China; October 2024.
4. **Kim D.**, "Evidence-based health policy: roles of spatiotemporal big data analytics," Zhejiang University of Science and Technology, Hangzhou, China; October 2024.
5. **Kim D.**, "Tools for analyzing environmental exposure to heavy metals: some cases and implications," Kyunghee University School of Nursing, Seoul, Korea; July 2024.
6. **Kim D.**, "Social big data analytics and research: recent cases and issues," Ajou University, Suwon, Korea; July 2024.

7. **Kim D.**, “Roles of big data analytics in social sciences: recent cases and issues,” Office of Strategic R&D Planning, Seoul, Korea; July 2024.
8. **Kim D.**, Kim P.\*, Song D., “Using deep learning to identify asthmatic children who are sensitive to PM exposure: the road to personalized risk prediction and intervention,” International Conference for Crisis and Emergency Management (ICCEM), Cheongju, Korea; July 2024.
9. **Kim D.**, “Spatial and AI modeling for environmental health challenges: lessons from recent studies,” Kyunghee University School of Nursing, Seoul, Korea; May 2024.
10. **Kim D.**, “Spatial and deep learning modeling for crime prevention,” Graduate School of Public Administration, Yonsei University, Seoul, Korea; May 2024.
11. **Kim D.**, "Management and application plan for disaster-safety cases," Incheon National University, Incheon, Korea; February 2024.
12. **Kim D.**, “The attitude-behavior dichotomy in the time of COVID-19: implications for health policy and governance," Taichung City, Taiwan; December 2023.
13. **Kim D.**, "Policy for social and economic transformation in South Korea: international perspectives on emerging challenges," International Cooperation Committee Special Mentoring Session, The Korean Association for Policy Studies (KAPS) 2023 Fall International Conference; Daejeon, Korea; September 2023.
14. **Kim D.**, "Spatial and spatiotemporal regression analysis using R," Korea Institute for International Economic Policy, Sejong, Korea; August 2023.
15. **Kim D.**, "Big data analytics for environmental health research," Department of Environmental Engineering, Chungbuk National University, Cheongju, Korea; July 2023.
16. **Kim D.**, "Political economy of climate crisis: environmental valuation and environmental justice," Ajou University, Seoul, Korea; July 2023.
17. **Kim D.**, "Using deep learning to identify asthmatic children who are sensitive to PM exposure: the road to personalized risk prediction and intervention," Kyung Hee University, Seoul, Korea; July 2023.
18. **Kim D.**, "Roles of big data analytics for public policy: challenges and opportunities," Hanyang University, Seoul, Korea; June 2023.
19. **Kim D.**, "Geospatial community mapping to assess social and environmental barriers and facilitators for disaster victims," Kwansai Gakuin University, Nishinomiya, Hyogo; June 2023.
20. **Kim D.**, "Using R for introductory data science," Dongeui University, Busan, Korea; June 2023.
21. **Kim D.**, "A carbon zero lifestyle: insights from environmental economics and environmental justice," Chungbuk National University, Cheongju, Korea; June 2023.
22. **Kim D.**, "Student mentoring: admission and survival tips and additional experiences gained while studying public policy and administration," International Cooperation Committee Special Mentoring

- Session, The Korean Association for Policy Studies (KAPS) 2023 Summer International Conference, Gyeongju, Korea; June 2023.
23. **Kim D.**, Jeong D., Social media mass hysteria during pandemics: case study of Twitter communication patterns in the US during COVID-19,” Korean Association for Crisis and Emergency Management (KACEM) Spring Conference, Incheon National University, Incheon, Korea; May 2023.
  24. **Kim D.**, “Spatial big data analysis for crime prevention,” Graduate School of Public Administration, Yonsei University, Seoul, Korea; April 2023.
  25. **Kim D.**, “Spatial differences-in-differences analysis using Stata,” Graduate School of Public Administration, Seoul National University, Seoul, Korea; January 2023.
  26. **Kim D.**, “Role of data science in applications for disaster response and prevention: opportunities and limitation,” Incheon National University, Incheon, Korea; December 2022.
  27. **Kim D.**, “FEMA training programs for civil protection,” Chungbuk National University, Cheongju, Korea; December 2022.
  28. **Kim D.**, “Spatial insight: how to develop competency in global digital society,” Hyundai Corporation, Seoul, Korea; July 2022.
  29. **Kim D.**, “Evidence-based environmental and health policy: roles of spatiotemporal big data,” Yonsei University, Seoul, Korea; July 2022.
  30. **Kim D.**, “US Threat and Hazard Identification and Risk Assessment (THIRA): Roles of Local Communities,” Chungbuk National University, Cheongju, Korea; July 2022.
  31. **Kim D.**, “Roles of big data analytics for public policy: challenges and opportunities,” Dong-eui University, Busan, Korea; July 2022.
  32. **Kim D.**, “Roles of spatial big data for maternal and child health: theories and applications,” College of Nursing Science, Kyung Hee University, Seoul, Korea; June 2022.
  33. **Kim D.**, “Roles of big data analytics for public policy,” Graduate School of Public Administration, Seoul National University, Seoul, Korea; May 2022.
  34. **Kim D.**, “New technology for disaster management capacity building: roles of big data analytics,” Incheon National University, Incheon, Korea; April 2022.
  35. **Kim D.**, “Smart personalized public health and medicine: roles of big data and machine learning,” Ewha Nursing Science Institute Webinar, Ewha Womans University, Seoul, Korea; December 2021.
  36. **Kim D.**, “Evaluating Heinrich’s Law Using the Digital Tachograph: Are Traffic Accidents Predictable?,” International Conference for Crisis and Emergency Management (ICCEM), Virtual Conference; November 2021.
  37. **Kim D.**, “Coexist with COVID-19: data-driven public health policy,” News One Seminar, Cheongju, Korea; October 2021.

38. **Kim D.**, “Smart parking in urban industrial complex: best practices from foreign countries,” Cheongju Council for Sustainable Development, Cheongju, Korea; October 2021.
39. **Kim D.**, “Emergency resource management in the US: federal, state and local perspectives,” Chungbuk National University, Cheongju, Korea; October 2021.
40. **Kim D.**, “Roles of big data and machine learning for risk analysis research,” Ajou University, Suwon, Korea; October 2021.
41. **Kim D.**, “Exploring the roles of social media data to identify the location and severity of road traffic accidents,” 10<sup>th</sup> Global Crisisonomy Symposium, University of Texas at Dallas, Richardson, TX; August 2021.
42. **Kim D.**, “U.S. Threat and Hazard Identification and Risk Assessment (THIRA): the roles of local communities,” International Conference, Incheon National University, Incheon, Korea; May 2021.
43. **Kim D.**, “Spatial analysis for global health and sustainability,” Data Science Webinar, College of Law and Politics, National Chung Hsing University, Taichung City, Taiwan; June 2020.
44. **Kim D.**, “A comprehensive evaluation of health and economic effects of PM 2.5”, Emergency Management and Safety Conference, Chungbuk National University, Cheongju, Korea; November 2019.
45. **Kim D.**, “Smart delivery of fire and medical services: roles of spatiotemporal IoT monitoring and deep learning analytics”, Smart City Symposium, Incheon National University, Incheon, Korea; October 2019.
46. **Kim D.**, “Machine learning and environmental health”, Graduate School of Public Health, Seoul National University, Seoul, Korea; August 2019.
47. **Kim D.**, “Developing a hotspot-based dynamic facility allocation and ambulance dispatch strategy in Lagos”, Mobile Health (mHealth) Stakeholder Meeting, Lagos, Nigeria; August 2019.
48. **Kim D.**, “Dynamic emergency medical service dispatch: role of spatiotemporal big data and machine learning”, National Crisis and Emergency Management Research Institute, Chungbuk National University, Incheon, Korea; July 2019.
49. **Kim D.**, “Evidence-based fire and safety programs in Korea and the US: case studies”, Gangwon Fire Academy, Taebaek, Korea; July 2019.
50. **Kim D.**, “Roles of spatial data in public finance analysis”, The Korean Association for Government Accounting, Seoul, Korea; July 2019.
51. **Kim D.**, “Machine learning and big data”, Inha University, Incheon, Korea; July 2019.
52. **Kim D.**, “Roles of spatial analytic tools in public health and nursing research and applications, College of Nursing Science, Kyung Hee University, Seoul, Korea; June 2019.
53. **Kim D.**, “20 years of observations in environment and health: challenges and suggestions”, Global Academy for Future Civilization, Kyung Hee University, Seoul, Korea; June 2019.

54. **Kim, D.**, “Coordination among volunteer organizations for disaster response: lessons from U.S.”, Korea Volunteer Center, Seoul, Korea; December 2018.
55. **Kim, D.**, “Lessons from the U.S. building or structure fires: causes and responses”, Chungbuk National University, Cheongju, Korea; December 2018.
56. **Kim, D.**, “Smart city for health: big data analytic tools for making city healthy”, Incheon National University, Incheon, Korea; December 2018.
57. **Kim, D.**, “The value of information in decision-analytic modeling for evidence-based health policies”, Universidad Católica de Santa Fe, Argentina; October 2018.
58. **Kim, D.**, “Food deserts vs. food jungle: understanding spatial patterns of food consumption in Korea”, Universidad Católica de Santa Fe, Argentina; October 2018.
59. **Kim, D.**, “Role of spatial approach for targeted environmental management and environmental impact assessment: case from North Carolina”, Universidad Católica de Santa Fe, Argentina; October 2018.
60. **Kim, D.**, “Demand-based emergency dispatch system: role of geospatial big data and machine learning”, Dong-Eui University, Busan, Korea; July 2018.
61. **Kim, D.**, “GIS and spatial analysis for police studies”, Methodology Workshop, Korean National Police University, Asan, Korea; July 2018.
62. **Kim, D.**, “Spatial analysis for researchers in police and criminology”, Methodology Workshop, Gyeonggi University, Suwon, Korea; July 2018.
63. **Kim, D.**, “Measuring demand for public health services: a choice modeling approach”, Global Crisisnomy Symposium, Boryeong, Korea; December 2017.
64. **Kim, D.**, “Strategies for protecting vulnerable population in response to large-scale disasters: lessons from the U.S.”, 4<sup>th</sup> International Forum for Disaster Management, National Disaster Relief Association, Incheon, Korea; August 2017.
65. **Kim, D.**, “Emergency management and education programs for disaster-vulnerable population: lessons from the U.S.”, Invitational Workshop on the Disaster Vulnerable and Disaster Safety Experiencing Facility, Kobe, Japan; July 2017.
66. **Kim, D.**, “GIS for disaster management? implications for health policy in Korea”, Invitational Seminar, Korea University, Seoul, Korea; July 2017.
67. **Kim, D.**, “GIS-based spatial analysis for disaster management: implications for environmental health policy”, Invitational Seminar, National Disaster Management Research Institute, Ulsan, Korea; July 2017.
68. **Kim, D.**, “Spatial approaches for disaster management and environmental health policy”, Special Lecture, Incheon National University, Incheon, Korea; June 2017.



69. **Kim, D.**, “Bayesian approach for urban research,” Special Lecture, Chungbuk National University, Cheongju, Korea; December 2016.
70. **Kim, D.**, “Spatial approach to address environmental and health risks: implications for local governments,” Special Lecture, Chungcheongnam Provincial Government, Hongseong, Korea; December 2016.
71. **Kim, D.**, “Suggestions for health policy evaluation in Korea: case of infectious diseases,” Invited Workshop, Korean Institute for Health and Social Affairs, Seoul, Korea; December 2016.
72. **Kim, D.**, “Multifaceted factors of urban policy: environmental impact on crime and health,” Special Lecture, Incheon National University, Incheon, Korea; December 2016.
73. **Kim, D.**, “Food and drugs risk management policy trends,” Keynote Address at the 3<sup>rd</sup> International Symposium on Food and Drug Safety Emergency Response, Organized by the Ministry of Food and Drug Safety, Seoul, Korea; September 2016.
74. **Kim, D.**, “Uncovering the impact of PM<sub>10</sub> on allergic diseases: roles of spatial analysis,” Special Lecture, Cheongju City Library, Cheongju, Korea; July 2016.
75. **Kim, D.**, “GIS-based association between PM<sub>10</sub> and allergic diseases in Seoul: implications for health and environmental policy,” Special Lecture, Incheon National University, Incheon, Korea; June 2016.
76. **Kim, D.**, “Suggestions for public health policy in Korea: lessons learned from U.S. response to Eloba outbreak,” Special Lecture, Korea Policy Forum, Seoul, Korea; December 2015.
77. **Kim, D.**, “Value of information in decision-analytic modeling for evidence-based urban policy,” Special Lecture, Incheon National University, Incheon, Korea; December 2015.
78. **Kim, D.**, “Events, accidents and crisis management trends of medicine and medical products,” 2<sup>nd</sup> International Symposium on Food and Drug Safety Emergency Response, Seoul, Korea; September 2015.
79. **Kim, D.**, “GIS-based statistical modeling for environmental health,” Graduate School of Public Health, Seoul National University, Seoul, Korea; September 2015.
80. **Kim, D.**, “MERS in Korea vs. Ebola in the U.S.,” Special Talk at National Assembly Research Services, Seoul, Korea; July 2015
81. **Kim, D.**, “Strengthening social safety network by developing public health infrastructure, Policy Seminar, Cheongju City, Korea; July 2015
82. **Kim, D.**, “Use of spatial analysis for evidence-based decision making in public policy,” Special Lecture at Seokdang Honors College, Dong-A University; July 2015
83. **Kim, D.**, “Differences-in-differences analysis,” Methodology Workshop, Kyonggi University; June 2015
84. **Kim, D.**, “Healthy city as a future city,” Special Lecture, Incheon National University; June 2015

85. **Kim, D.**, “Global Health Policy: Challenges and Opportunities,” Keynote Presentation, Korea Policy Forum, Seoul, Korea; December 2014.
86. **Kim, D.**, “Multidisciplinary approach to developing policy tools to address global health crisis,” Keynote Presentation, International Conference for Crisis and Emergency Management (ICCEM), Porto, Portugal; October 2014.
87. **Kim, D.**, “Multidisciplinary approach to developing policy tools to reduce global health disparities,” Special Talk at Graduate School of Public Administration, Seoul National University, Seoul, Korea; July 2014.
88. **Kim, D.**, “Evidence-based decision making under uncertainty: the case of health policy,” Special Talk at Hanyang University, Seoul, Korea; July 2014.
89. **Kim, D.**, “Value of information in decision-analytic modeling for evidence-based health policy,” Yonsei International Symposium, Yonsei University, Seoul, Korea; June 2014.
90. **Kim, D.**, “Improving alternative designs for discrete choice models in estimating willingness-to-pay for public services,” International Conference for Crisis and Emergency Management (ICCEM), Cheongju, Korea; October 2013.
91. **Kim, D.**, “Decision-analytic evidence-based policy making for complex environmental health crisis,” Keynote lecture, Annual Conference of the Korean Association for Crisis and Emergency Management, Dong-Eui University, Busan, Korea; July 2013.
92. **Kim, D.**, “Multidisciplinary approach for water and environmental health: changes in blood lead levels associated with use of chloramines in water treatment systems,” Department of Environmental Engineering, Chungnam National University, Daejeon, Korea; July 2013.
93. **Kim, D.**, “Building a healthy and eco-friendly city using environmental health policies: the case of U.S.,” Korean Foundation for Environmental Movement for Chungbuk, Cheongju City Hall, Cheongju, Korea; March 2013.
94. **Kim, D.**, “Food deserts in Korea: improving healthy food accessibility through public policy,” Keynote presentation at the 7<sup>th</sup> Michuhall Urban Forum, Urban Development Institute (UDI), Incheon National University, Incheon, Korea; March 2013.
95. **Kim, D.**, “Use of GIS and spatial analysis for health policy,” Graduate School of Public Health, Seoul National University, Seoul, Korea; July 2012.
96. **Kim, D.**, “Spatial modeling for groundwater arsenic levels,” K-Water, Daejeon, Korea; July 2012.
97. **Kim, D.**, “Evidence-based health policy using GIS and spatial modeling,” Weekly Grand Round Seminar, Korea Centers for Disease Control and Prevention, Osong, Korea; July 2012.
98. **Kim, D.**, “Decision analysis and value of information analysis,” Methodology Colloquium, Institute of Government Studies, Korea University, Seoul, Korea; July 2012.
99. **Kim, D.**, “Application of Quantum GIS for climate research,” Workshop on the Better Way to Use Weather and Climate Information, Pukyung National University, Busan, Korea; July 2012.

100. **Kim, D.**, “GIS, Quantum GIS, and spatial analysis: application for urban policy”, Special lecture at the 5<sup>th</sup> Michuhall Urban Forum, Urban Development Research Institute, Incheon National University, Incheon, Korea; June 2012.
101. **Kim, D.**, “Training workshop on Quantum GIS: construction, mapping and analysis of spatial data”, Special methodology workshop at the Korean Association for Crisis and Emergency Management (KACEM) summer conference, Incheon National University, Incheon, Korea; June 2012.
102. **Kim, D.**, “Crisis management for saving public goods: Cost-benefit analysis perspective,” Department of Public Administration, Chungbuk National University, Cheongju, Korea; December 2011.
103. **Kim, D.**, “Analyzing environmental risks and benefits of environmental quality improvement,” Department of Public Administration, Chungbuk National University, Cheongju, Korea; July 2011.
104. **Kim, D.**, “A decision analytic approach to evidence-based malaria control in Africa,” Institute for Poverty Alleviation and International Development, Yonsei University, Wonju, Korea; July 2011.
105. **Kim, D.**, “GIS applications in environmental health research,” Institute for Occupational and Environmental Health, Korea University, Seoul, Korea; July 2011.
106. **Kim, D.**, “Spatial modeling for informed decision-making in environmental health policy,” Graduate School of Public Administration, Seoul National University, Seoul, Korea; July 2011.
107. Choi, J., **Kim D.**, “A Study on developing a targeted screening policy for preventing childhood lead poisoning in Seoul,” Final Report Presentation to Seoul Metropolitan Council, Seoul, Korea; February 2010.
108. **Kim, D.**, Kramer R., “A decision analytic approach to assessing policy tradeoffs in malaria control in Liberia” UL-PIRE (University of Liberia - Pacific Institute for Research and Evaluation) Africa Center, Monrovia, Liberia; May 2009.
109. **Kim, D.**, “Policy tools to reduce health disparities: from global to local perspective,” Institute of Urban Affairs, Yonsei University, Seoul, Korea; April 2009.
110. **Kim, D.**, “GIS as a decision-making tool for community public health policy,” National Crisis & Emergency Management Research Institute, Chungbuk National University, Cheongju, Korea; April 2009.
111. **Kim, D.**, “Economics and the DOMI agenda: Beyond cost-effectiveness calculation,” Diseases of the Most Impoverished (DOMI) Symposium, 10<sup>th</sup> Asian Conference on Diarrhoeal Diseases and Nutrition, ICDDR-B, Dhaka, Bangladesh; December 2003.

Invited Presentations: Domestic meetings

112. **Kim D.**, “Real-time counting of wheezing events using deep learning: implications for early intervention,” RTI International, Research Triangle Park, NC; April 2024.
113. **Kim D.**, “Investigating spatial factors for community reintegration for burn injury survivors in Texas,” 12th Global Crisisonomy Symposium, Los Angeles, CA; January 2024.

114. Naqvi A., Iqbal Z., Sendhil S., Rayabhazi A., Gupta A., Sreenivasan N., **Kim D.**, "ForensicSight: precise crime scene bloodstain classification," UTD ACM Research Presentation; December 2023.
115. **Kim D.**, "Geospatial approach to assess social and environmental barriers and facilitators for burn survivors in north Texas," TBIMS GeoSIG meeting, online; November 2023.
116. **Kim D.**, Scotch R., "Geospatial community mapping to assess social and environmental barriers and facilitators for burn survivors," The UTD Geospatial Information Sciences Colloquium Series, Richardson, TX; September 2023.
117. **Kim D.**, "Understanding North Korea: a key to peaceful reunification of Korea," Dallas Chapter of Peaceful Unification Advisory Council, Dallas, TX; December 2022.
118. **Kim D.**, "Desire, mission or opportunity: leadership for Korean reunification in post-COVID era," Dallas Chapter of Peaceful Unification Advisory Council, Dallas, TX; February 2022.
119. **Kim D.**, "Ambient PM concentrations as a precursor of emergency visits for respiratory complaints: roles of deep learning and multi-point real-time monitoring," 2021 Global Disastronomy Workshop, Sam Houston State University, Huntsville, TX; December 2021.
120. **Kim D.**, "The U.S. failure to control the pandemic: policy failure or social dilemma," Houston Area Model United Nations Conference; January 2021.
121. **Kim D.**, "How East Asia has managed to control the coronavirus: the case of China, Hong Kong, Japan and South Korea," Discussant at ASPA Webinar; December 2020.
122. **Kim D.**, "Who is not wearing a face mask and why? Implications for mask mandate in response to COVID-19," The Pandemic in Policy, Practice and Politics, School of Economic, Political and Policy Sciences, University of Texas at Dallas, Richardson, TX; December 2020.
123. **Kim D.**, "Understanding Spatial Data," Guest Lecture on EPPS 6302, University of Texas at Dallas, Richardson, TX; October 2020.
124. **Kim D.**, "The Achilles heel of U.S. public health policy" lessons from COVID-19," Korea-US Local Government Public Administration Forum, Online Webinar; May 2020.
125. **Kim D.**, "Global health: daunting challenges and smart solutions," World Affairs Council at Dallas-Fort Worth, Fort Worth, TX; February 2020.
126. **Kim D.**, "Interactive hotspot mapping and facility allocation for road traffic incidents in Lagos, Nigeria", UTD GIS HBG Forum, Richardson, TX; January 2020.
127. **Kim D.**, "GIS-based hotspot mapping and facility allocation for road traffic incidents", 9<sup>th</sup> Global Crisisonomy Symposium, Las Vegas, NV; January 2020.
128. **Kim D.**, "IoT technology and health applications: bridging between researchers and practitioners", BTI Solutions, Inc., Richardson, TX; January 2020.

129. **Kim, D.**, “Smart tools of public health research: spatiotemporal modeling, decision analysis, and machine learning”, Korean Society for Public Health Annual Meeting at APHA, San Diego, CA; November 2018.
130. **Kim, D.**, “Academic Career Workshop”, 2018 Business Meeting of the Section on Korean Public Administration at ASPA, Denver, CO; March 2018.
131. **Kim, D.**, “Evaluating Heinrich’s Law Using the Digital Tachograph in Seoul: Are Traffic Accidents Predictable?”, 3<sup>rd</sup> CGG Global Health & Safety Symposium, Richardson, TX; January 2018.
132. **Kim, D.**, “Expressing yourself across cultures”, Panelist at the Graduate Professional Week, The UTD Office of Graduate Studies, Richardson, TX; October 2016.
133. **Kim, D.**, “Geospatial approach to developing policy tools to address global health concerns,” Breakout Session at the 5<sup>th</sup> Annual Global Health Symposium, UT Southwestern Medical Center, Dallas, TX; January 2016.
134. **Kim, D.**, “Experiencing Dallas as a future city: technology, culture and governance,” Opening Lecture for International Internship for Incheon National University, University of Texas at Dallas, Richardson, TX; February 2015.
135. **Kim, D.**, “Using decision analysis and spatial analysis for health policymaking in Africa and Bangladesh,” Guest Lecture in the Health and Illness Class (SOC 6356), University of Texas at Dallas, Richardson, TX; April 2014.
136. **Kim, D.**, “Teaching public policy in the global context”, Panelist at a Multidisciplinary Symposium, North Carolina Central University Global Social Entrepreneurship Initiative, Research Triangle Park, NC; March 2013.
137. **Kim, D.**, “Integrative use of health information for informed decision making for health policy”, Duke/UNC/NCCU Joint Health Informatics Seminar Series, Duke Center for Health Informatics (DCHI), Durham, NC; February 2013.
138. **Kim, D.**, “Decision-analytic modeling for information-based malaria control”, American Society for Information Science and Technology, North Carolina Central University Student Chapter, Durham, NC; November 2012.
139. **Kim, D.**, “Natural science vs. social science: conflict, crossover or collaboration”, Social Science Focus Session, 2012 Korean American Scientists and Engineers South Atlantic Regional Conference, Raleigh, NC; November 2012.
140. **Kim, D.**, Kramer R., “Developing a decision support tool for malaria control in Liberia,” Liberian History, Education, and Development, Inc. (LIHEDE) 5<sup>th</sup> Anniversary Jubilee, Greensboro, NC; August 2009.
141. **Kim, D.**, Reiter J., Hull A., Miranda M.L., “The impact of lead and other exposures on early school performance,” Neurobehavioral Teratology Society (NBTS) Annual Meeting, Monterey, CA, USA; June 2008.

142. Lauria, D., **Kim D.**, "Optimal vaccination fees and clinic locations in rural China: Tribute to Professor Charles Revelle," Johns Hopkins University, Baltimore, MA, USA; March 2007.

Refereed Presentations: International conferences

1. **Kim D.**, "Using spatial modeling to estimate potential radon risks: implications for health and environmental policy," Korean Society for Indoor Environment Annual Conference, Busan, Korea; September 2024.
2. **Kim D.**, "The attitude-behavior dichotomy in the time of COVID-19: an explanation using generalized structural equation modeling," KAPS Summer Conference, Busan, Korea; June 2024.
3. **Kim D.**, Seo S., "Real-time counting of wheezing events using deep learning: implications for early intervention," Korean Conference of Environmental Health, Jeju, Korea; November 2023.
4. Seo S., **Kim D.**, Min C., Ko H., Yoon S., "A deep learning model for predicting particulate matters based on ammonia concentration in livestock farming areas," 35<sup>th</sup> Annual Conference of the International Society for Environmental Epidemiology (ISEE), Kaohsiung, Taiwan; September 2023.
5. **Kim D.**, Seo S., "Real-time counting of wheezing events using deep learning: implications for early intervention," 2023 INFORMS Healthcare Conference, Toronto, Canada; July 2023.
6. **Kim D.**, Seo S., "Spatial modeling for radon concentration in subway stations," 2022 Conference of the Geological Society of Korea, Changwon, Korea; October 2022.
7. **Kim D.**, "Regional disparity in educational impact of COVID-19 in Korea," 2022 Asian Conference on Crisisonomy, Jeju, Korea; July 2022.
8. **Kim D.**, "Evidence-based allocation of public health resources in South Korea: simulated two-step floating catchment area method," Summer International Conference of the Korean Association for Public Administration (KAPA), Online; June 2021.
9. **Kim D.**, "Public health crisis as sociopolitical dilemma: face mask debate in the US amidst COVID-19 pandemic", 2020 International Conference for Crisis and Emergency Management (ICCEM), Online Conference; December 2020.
10. Kim, J., **Kim D.**, Seo S., "Real-time measurement of indoor PM concentrations on daily change of endocrine disruptors in urine samples of mother and infant," Spring Online Conference of the Korean Society of Environmental Health; July 2020.
11. Allo, N., Nwariaku F., **Kim D.**, "Using GEOSMS and USSD communications to improve location reporting requirements within LMICs for accident and emergency services," GISRUK 2020, London, United Kingdom (online); July 2020.
12. Kim, J., **Kim D.**, Kang D., "Role of dietary, lifestyle and behavioral factors for exposure to phthalate metabolites, bisphenol A, parabens and triclosan in breast milk of Korean mothers," 31<sup>st</sup> Annual Conference of the International Society for Environmental Epidemiology, Utrecht, Netherlands; August 2019.
13. Kim H., **Kim D.**, "Environmental justice and pedestrian safety: a Bayesian spatiotemporal analysis of

- pedestrian fatalities,” Summer International Conference of the Korean Association for Public Administration (KAPA), Busan, Korea; June 2019.
14. **Kim D.**, Kim H., “Voting turnout and population health status in the OECD countries: the role of healthcare systems,” Global Crisis Symposium, Jeju, Korea; June 2019.
  15. Seo S., **Kim D.**, Cho S., Song D., Kim K., Ko H., “A deep learning approach for detecting the effects of indoor air pollutants concentrations on pulmonary functioning test results: are asthma attacks predictable?”, European Academy of Allergy and Clinical Immunology (EAACI) Annual Congress 2019, Lisbon, Portugal; June 2019.
  16. Kim, J., **Kim D.**, Yang E., Moon S., “Association between dietary and lifestyle factors and exposure to BPA, parabens, and triclosan in breast milk of Korean mothers,” Spring Conference for Korean Society of Environmental Health, Seoul, Korea; May 2019.
  17. **Kim, D.**, “Organization structure and workforce development for disaster management: Lessons from the U.S.”, Annual Conference of the Korean Association for Crisis and Emergency Management, Iksan, Korea; July 2018.
  18. **Kim D.**, Cho S., Seo S., Song D., “A spatiotemporal big data approach for linking pulmonary functioning test results with air pollutants concentrations: are asthma attacks predictable?”, Spring Conference of the Korean Academy of Pediatric Allergy and Respiratory Disease, Daegu, Korea; April 2018.
  19. Seo, S., **Kim D.**, Yoo Y., Choung J., “Smart prevention for allergic diseases: GIS-based risk index and IT-based mobile monitoring,” European Academy of Allergy and Clinical Immunology (EAACI) Annual Congress 2016, Vienna, Austria; June 2016.
  20. **Kim, D.**, Zhang Y., Lee C., “Does discrete choice modeling improve policy decisions and implementation? The case of immunization in China,” 2016 International Conference for Crisis and Emergency Management (ICCEM), Lucerne, Switzerland; June 2016.
  21. **Kim, D.**, “Using spatial modeling for targeted immunization programs in Bangladesh,” 2015 International Conference for Crisis and Emergency Management (ICCEM), Tokyo, Japan; September 2015.
  22. **Kim, D.**, “An East Asian perspective on healthy and affordable food accessibility: food desert or food jungle?” Winter Conference of the Korean Association for Public Administration (KAPA), Seoul, Korea; December 2014.
  23. Seo, S., **Kim D.**, “Neighborhood-level association between PM10 concentration and asthma prevalence in Seoul, Korea: spatial analysis, 2014 International Conference for Crisis and Emergency Management (ICCEM), Porto, Portugal; October 2014.
  24. Min S.\*, **Kim D.**, Seo S., “GIS-based ecological analysis of environmental risk factors on allergic diseases in Seoul, Korea,” Joint Conference of Korean Policy Forum and Korean Association for Crisis and Emergency Management, Jeju National University, Jeju, Korea; July 2014.

25. **Kim, D.**, Min, S.\*, Lee, C., “Food deserts: a new approach to evaluate disparities in access to healthy and affordable foods in Korea?” World Conference for Public Administration (WCPA), Daegu, Korea; June 2014.
26. Brown Z., Kramer, R., Mutero C., **Kim D.**, Miranda M.L., Ameneshewa B., Lesser A., “Engaging stakeholders in the development and use of a model-based decision support system for malaria control,” MIM conference, Durban, South Africa; October 2013.
27. Brown, Z., Kramer R., Mutero C., **Kim, D.**, Miranda M.L., Ameneshewa B., Lesser A., Paul C., “Stakeholder development of the malaria decision analysis and support tool (MDAST)”, Malaria Journal annual conference, Basel, Switzerland; October 2012.
28. **Kim, D.**, Brown, Z., Kramer R., Mutero, C., Miranda, M.L., “Value of information in decision-analytic modeling for malaria control,” 4<sup>th</sup> Biennial Conference of the International Association for Ecology & Health (Ecohealth 2012), Kunming City, China; October 2012.
29. Seo, S., **Kim, D.**, “Spatial analysis of environmental risk factors for allergic diseases in Seoul, Korea,” International Colloquium on Health & Space, Marseille, France; September 2012.
30. **Kim, D.**, “Using mathematical tools to improve health policy decisions and implementation: obstacles and potential solutions, Korean Association of Public Administration (KAPA) international conference, Seoul, Korea; June 2012.
31. **Kim, D.**, “Use of GIS and Spatial Analysis for Public Health Crisis Management: Lessons from the U.S.”, Annual Conference of the Korean Association for Crisis and Emergency Management, Busan, Korea; August 2011 (online video presentation).
32. Seo, S., Cho Y., Choi S., **Kim, D.**, Kim Y., Kim S., Choi J., 2011, “Influence of environmental exposure on blood lead levels of young children in Seoul, Korea: A pilot study,” *Epidemiology*, 22(1):S279 (presented at ISEE 22<sup>nd</sup> Annual Conference in Seoul, Korea; August 2011).
33. Kramer, R., Brown Z., Dickinson K., **Kim D.**, Mboera L., Miranda M.L., Mutero C., “A Decision analytic Approach to assessing policy tradeoffs in malaria control in Tanzania,” 5<sup>th</sup> Annual Multilateral Initiative on Malaria Pan American Conference, Nairobi, Kenya; November 2009.
34. **Kim, D.**, “Saving National Heritage: Cost-benefit analysis for policy alternatives of protecting Cape Hatteras lighthouse in North Carolina,” 2009 International Conference for Crisis and Emergency Management (ICCEM), Busan, Korea; September 2009.
35. **Kim, D.**, Kim T., Roh C., “GIS as a decision-making tool for health policy: application to preventive health planning in the U.S.”, Spring Conference of the Korean Association for Public Administration (KAPA), Samcheok, Korea; April 2009.
36. **Kim, D.**, Canh D.G., Poulos C., Thoa L.T.K., Cook J., Hoa N.T., Nyamete A., Thuy D.T.D., Deen J., Son N.D., Clemens J., Thiem V.D., Anh D.D., and Whittington D., “Private demand for oral cholera vaccines in Hue City, Vietnam,” International Health Economics Association (IHEA) 5<sup>th</sup> World Congress, Barcelona, Spain; July 2005.

Refereed Presentations: Domestic conferences



37. Gill, E., Theall K., **Kim D.**, Kang S., Thomas C., Broach J., Bazzano L., Fernandez C., Harville E., "Exploring patterns in Menarche Timing: The Effect of Are Deprivation Index Through a Lifecourse Perspective in the Bogalusa Heart Study," Society for Epidemiologic Research (SER) Annual Meeting, Boston, MA; June 2025.
38. Kim, P.\*, Kim D., Kowalske K., Scotch R., "The geography of community integration for burn injury survivors: a comparative analysis across multiple metropolises," Society for Epidemiologic Research (SER) Annual Meeting, Boston, MA; June 2025.
39. Kim, P.\*, **Kim D.**, Lee C., "Bayesian spatiotemporal analysis for policy evaluation using big data: estimating the effects of social distancing policies with Google mobility data," Annual Conference of the American Society for Public Administration (ASPA), Washington, DC; April 2025.
40. Gill E., **Kim D.**, Theall K., Libon D., Anda-Duran I., Alonso C., Bazzano L., Gustat J., Harville E., "The effect of early-life area-level socioeconomic deprivation on cognitive function in middle-aged adults: findings from the Bogalusa Heart Study," American Health Association EPI/Lifestyle Scientific Sessions 2025, New Orleans, LA; March 2025.
41. Srenivasan, N., Baldivas R., Miller A., Chacko M., Krishnn S., **Kim D.**, "LegalEye: multimodal court deception detection across multiple languages," 2025 Academy of Criminal Justice Sciences (ACJS) Annual Conference, Denver, CO; March 2025.
42. **Kim D.**, "Geospatial factors impacting community reintegration of burn injury survivors," 2024 Association for Public Policy Analysis and Management (APPAM) Fall Research Conference, Baltimore, MD; November 2024.
43. Kim, P., Kim, H., **Kim D.**, Moon M.J., "AI and deep learning for anticipatory governance," 2024 Association for Public Policy Analysis and Management (APPAM) Fall Research Conference, Baltimore, MD; November 2024.
44. Jeong, D., **Kim D.**, Okuzu O., "The paradox of uniformity: tuberculosis treatment disparities area identification and optimal location in Akwa Ibom State, Nigeria," Annual Conference of the American Public Health Association (APHA) annual conference, Minnapolis, MN; November 2024.
45. Kim, P., Kowalske K., **Kim D.**, "Exploring geospatial barriers and facilitators to community integration among burn injury survivors," ACRM 101<sup>st</sup> annual fall conference, Dallas, TX; November 2024.
46. **Kim D.**, Jeong, D., Cho S., "Enhancing emergency medical services through spatiotemporal demand forecasting and resource optimization: a deep learning approach," Annual Conference of the American Society for Public Administration (ASPA), Minneapolis, MN; April 2024.
47. Kim P., **Kim D.**, Scotch R., Kowalske K., Jeong D., Solis K., "Burn injury survivors as overlooked health disparity population: investigating spatial factors for community reintegration in Texas," American Public Health Association (APHA) annual conference, Atlanta, GA; November 2023.
48. **Kim D.**, Jeong, D., Hanson-Defusco, J., "A study of twitter communication patterns in the US during the stages of COVID-19 vaccination," 2023 Association for Public Policy Analysis and Management (APPAM) Fall Research Conference, Atlanta, GA; November 2023.

49. Seo S., **Kim D.**, Lee H., Kwon B., “The joint effect of temperature and humidity on airborne mold and bacteria concentration in indoor environment: a machine learning approach for cost-effective intervention,” International Society of Exposure Science (ISES) 2023 Annual Meeting, Chicago IL; August 2023.
50. Rao, A., Stewart A., Venkatesh V., Du Z., Yadavalli A., **Kim D.** et al, “Left Ventricular Systolic Dysfunction in Immune Checkpoint Inhibitor Myocarditis – Data from the International Immune Checkpoint Inhibitor Myocarditis Registry,” Advancing the Cardiovascular Care of the Oncology Patient 2023, American College of Cardiology (ACC), Washington, DC; April 2023.
51. Dam, A.\*, **Kim D.**, "The youth vaping epidemic in the United States," UTD Research Day Poster Competition, Ricardson, TX; April 2023.
52. **Kim D.**, Seo S., “Ambient PM concentration as a precursor of emergency visits for respiratory complaints: roles of deep learning and multi-point real-time monitoring,” Predictive Analytics World Healthcare, Las Vegas, NV, USA; June 2022.
53. **Kim D.**, Shin H., Carson R., Whittington D., Hanemann M., “The political economy of COVID-19: facemask dilemma in the US”, Annual Conference of the Society for Benefit-Cost Analysis, Virtual Conference; March 2022.
54. **Kim D.**, “Roes of spatiotemporal big data mapping for injury prevention policy in Korea”, Annual Conference of the American Society for Public Administration (ASPA), Jacksonville, FL, USA; March 2022.
55. **Kim D.**, “Public Health vs Individual Freedom: Implications for Government Mask Mandate in Response to COVID-19”, Annual Conference of the American Society for Public Administration (ASPA), Virtual Conference; April 2021.
56. **Kim D.**, “Policy effects of mandatory electronic card system in Korean gaming industry”, Annual Conference of the Society for Benefit-Cost Analysis, Virtual Conference; March 2021.
57. Malola C., Venkatraman C., Odusola A., Kola-Korolo O., Kim H., **Kim D.**, Olaomi O., Idris J., Nwariaku F., “A geospatial analysis of road traffic accidents in Lagos State, Nigeria from December 2017 to May 2018,” American Public Health Association (APHA) annual conference, Philadelphia, PA, USA; November 2019.
58. **Kim D.**, Lee S., Ban Y., “Using causal loop to evaluate safety against crime in sustainable urban metabolism framework: a case of South Korea,” Annual Conference of the American Society for Public Administration (ASPA), Washington, DC, USA; March 2019.
59. Park, J., Jung, Y.\*, **Kim D.**, “A closer look at environmental factors of crime: a spatiotemporal analysis,” 2018 Annual Meeting of the American Society of Criminology, Atlanta, GA, USA; November 2018.
60. **Kim D.**, Maxwell S., Le Q.\*, “Beyond the simple use of Google trends for epidemiology: spatiotemporal patterns of symptoms, lab tests and confirmed cases of Lyme disease,” American Public Health Association (APHA) annual conference, San Diego, CA, USA; November 2018.

61. **Kim, D.**, Cho S., Ban Y., “Demand-based emergency dispatch system: role of geospatial big data and machine learning,” American Public Health Association (APHA) annual conference, San Diego, CA, USA; November 2018.
62. Venkatraman, C., McCoy M., Istre G., Stephens-Stidham, S., **Kim, D.**, Nwariaku F., “Characterizing the pedestrian fatality burden in the 9<sup>th</sup> most populous county in the US, Dallas County, from 2005 to 2013,” American Public Health Association (APHA) annual conference, San Diego, CA, USA; November 2018.
63. **Kim, D.**, Cho S., “Urban safety through spatiotemporal big data: linking the digital tachograph with traffic accidents,” Association of American Geographers (AAG) Annual Meeting, New Orleans, LA, USA; April 2018.
64. **Kim, D.**, “Public-sector reform for better services: lessons from Korean cases,” Annual Conference of the American Society for Public Administration (ASPA), Denver, CO, USA; March 2018.
65. **Kim, D.**, “Understanding needs and barriers to using GIS technology for public health policymaking in Asia,” Annual Conference of the American Society for Public Administration (ASPA), Denver, CO, USA; March 2018.
66. Jang, Y.\*, **Kim D.**, Park J., Kim D., “Conditional effects of open-street closed-circuit television (CCTV) on crime,” 2017 Annual Meeting of the American Society of Criminology, Philadelphia, PA, USA; November 2017.
67. Kim, H.\*, **Kim D.**, “Allocating NPIR (Negative Pressure Isolation Rooms) hospitals for infectious diseases in South Korea,” American Public Health Association (APHA) annual conference, Atlanta, GA, USA; November 2017.
68. **Kim, D.**, Ban Y., Kim H.\*, Kim Y.\*, Lee J., “Evaluating urban safety via metabolism” American Public Health Association (APHA) annual conference, Atlanta, GA, USA; November 2017.
69. Pham, A.\*, **Kim D.**, “Exploring determinants for recruitment and retention of family doctors for rural practice in Vietnam: lessons from a discrete choice experiment,” Association for Public Policy Analysis and Management (APPAM) fall conference, Washington, DC, USA; November 2016.
70. Vyas, P.\*, **Kim D.**, “Bangladesh immunization divide: going beyond the regional differentials,” American Public Health Association (APHA) annual conference, Denver, CO, USA; September 2016.
71. Bae, K.\*, **Kim D.**, “Decoupling of family-friendly policies on job satisfaction and organizational commitment in Korea,” Annual Conference of the American Society for Public Administration (ASPA), Seattle, WA, USA; March 2016.
72. Wigfall, P., **Kim D.**, “Going up in smoke: an examination of tobacco control policy and practices in addressing tobacco production’s impact on the global environment,” 2015 SECOPA Conference, Charleston, SC, USA; October 2015.
73. Shim, E.\* , Cho Y., Woo H., **Kim D.**, “Designing a noise mapping system based on the citizen scientists’ smartphone sensor data,” 2015 Annual Meeting of Population Association of America, San Diego, CA, USA; May 2015.

74. **Kim, D.**, “Evaluating cost-effectiveness of targeted interventions for an environmental health program: does geographic scale matter?” Annual Conference of the American Society for Public Administration (ASPA), Chicago, IL, USA; March 2015.
75. Min, S.\*, **Kim D.**, “Neighborhood food accessibility and health risks in Korea,” Annual Conference of the American Society for Public Administration (ASPA), Chicago, IL, USA; March 2015.
76. Seo, S., **Kim D.**, Min S.\*, Paul C., Yoo Y., Choung J., “The GIS-based ecological association between ambient air pollution and asthma prevalence at the sub-district level in Seoul, Korea,” American Academy of Allergy Asthma & Immunology (AAAAI) Annual Meeting, Houston, TX; February 2015.
77. Pham, A.\*, **Kim D.**, “A meta-regression analysis of the effectiveness of mosquito nets for malaria control, UT Southwestern Global Health Student Conference, Dallas, TX; January 2015 (received the Best Student Presentation Award).
78. **Kim, D.**, Vyas P.\*, “Evaluating the feasibility of spatial tools to scale up child immunization coverage in Bangladesh,” Poster Presentation, Association for Public Policy Analysis and Management (APPAM) fall conference, Albuquerque, NM, USA; November 2014.
79. **Kim, D.** Serre M., “Spatial mapping of community-level child immunization coverage for targeted policy interventions in Bangladesh,” Association of American Geographers (AAG) Annual Meeting, Tampa, FL; April 2014.
80. **Kim, D.**, Min, S.\*, Lee, C., Improving healthy food accessibility through public policy: case of Incheon, Korea,” Annual Conference of the American Society for Public Administration (ASPA), Washington, DC, USA; March 2014.
81. Seo, S., **Kim D.**, “GIS-based ecological analysis of environmental risk factors on allergic diseases in Seoul, Korea,” American Public Health Association (APHA) annual conference, Boston, MA, USA; November 2013.
82. **Kim, D.**, Brown, Z., Anderson R., Kramer R., Mutero, C., Miranda, M.L., “Value of information in decision-analytic modeling for malaria control in Africa,” American Public Health Association (APHA) annual conference, Boston, MA, USA; November 2013.
83. **Kim, D.**, Penny R., “Equity in Voting Accessibility in North Carolina,” 12<sup>th</sup> Annual Social Equity Leadership Conference, Raleigh, NC, USA; June 2013.
84. Kramer, R., Mutero C., Miranda M.L., Ameneshewa B., Paul C., Lesser A., Brown Z., **Kim D.**, “Engaging in-country stakeholder networks towards improved malaria policymaking in Tanzania, Kenya and Uganda,” 4<sup>th</sup> Annual Consortium of Universities of Global Health (CUGH), Washington, DC, USA; March 2013.
85. **Kim, D.**, Kim B., “Do optimization tools improve health policy decisions and implementation? The complexity of joint action in China’s vaccination planning process,” Annual Conference of the American Society for Public Administration (ASPA), New Orleans, LA, USA; March 2013.
86. **Kim, D.**, Fedak C.\*, Kramer R., “Reduction of malaria prevalence by indoor residual spraying: A meta-regression analysis,” American Society of Tropical Medicine and Hygiene (ASTMH) annual conference, Atlanta, GA, USA; November 2012.

87. Wigfall, P., **Kim, D.**, "Finding the Silver-Lining in Equitable and Sustainable Service Delivery in Health: An Empirical Study of the Impact of the SPARC Model on the Aging Population," Southeastern Conference on Public Administration, Coral Springs, FL, USA; October 2012.
88. **Kim, D.**, "Enhancing social equity by food deserts eradication," 11<sup>th</sup> Annual Social Equity Leadership Conference, Savannah, GA, USA; June 2012.
89. Seo, S., Cho Y., Choi J., Yoo Y., **Kim D.**, Choung J., "Exposure to smaller-sized fragments in homes with a childhood asthmatic," American Academy of Allergy Asthma & Immunology (AAAAI) Annual Meeting, Orlando, FL; March 2012.
90. Miranda, M.L., **Kim, D.**, Anthropolos, R., Osgood, C., "Effect of maternal smoking during pregnancy on children's educational test performance," American Public Health Association (APHA) annual conference, Washington, DC, USA; October 2011.
91. **Kim, D.**, "A decision analytic approach to evidence-based malaria policy in Liberia," Annual Conference of the Liberian Studies Association, Durham, NC, USA; April 2011.
92. Njogu D.\*, **Kim, D.**, "A cross-country comparative analysis of universal healthcare systems: Implication for U.S. policy," Annual Conference of the American Society for Public Administration (ASPA), Baltimore, MA, USA; March 2011.
93. **Kim, D.**, Jung C., "Patterns and practices of accumulation and use of municipal fiscal reserves in the U.S.," Annual Conference of the American Society for Public Administration (ASPA), Baltimore, MA, USA; March 2011.
94. **Kim, D.**, Kim Y., Jung C., "Assessing developmental patterns of E-government for enhancing transparency," Annual Conference of the American Society for Public Administration (ASPA), San Jose, CA, USA; April 2010.
95. Jung, C., **Kim D.**, Kim Y., "Structural changes in the distribution of federal assistance awards, 1983-2007," Annual Conference of the American Society for Public Administration (ASPA), San Jose, CA, USA; April 2010.
96. Kim, Y., Jung C., **Kim D.**, "Gauging the E-government in financial performance: local government experiences," Annual Conference of the American Society for Public Administration (ASPA), San Jose, CA, USA; April 2010.
97. Jung, C., **Kim, D.**, "Spatial distribution of federal grants, 1983-2007," Annual Conference of the Association for Budgeting and Financial Management (ABFM), Washington, DC, USA; September 2009.
98. **Kim, D.**, Choi H., "Fairness in Sustainability: Assessment of Inequality and Diversity," Annual Conference of the American Society for Public Administration (ASPA), Miami, FL, USA; March 2009.
99. Bang, J., Druweay W., Anderson Y., Barnett A., **Kim D.**, "Patterns of Ultrafine Particle (UFP) Deposition in Human Lung Alveolar Space and Exposure related Physiological Responses of a Respiratory System on Healthy Individuals during Indoor Cooking," Joint Annual Conference of International Society for Environmental Epidemiology (ISEE) & International Society of Exposure Analysis (ISEA), Pasadena, CA, USA; October 2008.

100. **Kim, D.**, Overstreet A., Miranda M.L., “Targeted planning for health: comparison of parcel vs. zip-code level targeted screening for childhood lead exposure,” Joint ACSP-AESOP (Association of Collegiate Schools of Planning – Association of European Schools of Planning) Conference, Chicago, IL, USA; July 2008.
101. **Kim, D.**, Lauria D.T., Dong B., Whittington D., “Planning vaccination campaigns in developing countries,” International Conference of Global Health, Global Health Council, Washington, DC, USA, May 2008.
102. Bradley, P., **Kim, D.**, Tootoo, J., “Geological aspects of naturally occurring arsenic in groundwater in the Chapel Hill, Hillsborough and Efland 7.5-minute quadrangles, Carolina terrain, North Carolina,” Geological Society of America Southeastern Section Annual Meeting, Charlotte, NC, USA, April 2008.
103. Kaiser, L., Miranda, M.L., Hussey J., Buescher P., **Kim D.**, Swamy G., “Association of adequacy of prenatal care utilization and maternal health status with birth outcomes in North Carolina,” Annual Meeting of the Society for Gynecologic Investigation, San Diego, CA, USA, March 2008.
104. **Kim, D.**, Miranda, M.L., Reiter J., Hull A., Morgan S.P., “Effects of early childhood lead exposure on children’s school performance and behavioral outcomes,” Annual Minority Health Conference, University of North Carolina School of Public Health, Chapel Hill, NC, USA, February 2008.
105. Miranda, M.L., **Kim D.**, Overstreet M.A., Hull A., Reiter J., Morgan S.P., “Effects of early childhood environmental exposures on elementary school test performance,” American Public Health Association (APHA) annual conference, Washington, DC, USA; November 2007.
106. **Kim, D.**, Miranda, M.L., Tootoo, J.L., Gelfand A., “Spatial modeling for groundwater arsenic levels in North Carolina,” Joint Statistical Meetings, Salt Lake City, UT, USA, July 2007.
107. **Kim, D.**, Overstreet M.A., Miranda M.L., Widespread replication of GIS models for childhood lead exposure risk: Does intensity of geocoding matter?, American Public Health Association (APHA) annual conference, Boston, MA, USA; November 2006.
108. Miranda, M.L., **Kim D.**, Overstreet M.A., Hull A.P., Morgan P., “Linkages between early childhood lead exposure and performance on end of grade exams,” American Public Health Association (APHA) annual conference, Boston, MA, USA; November 2006.
109. Miranda, M.L., Overstreet M.A., Tootoo J.L., Hull A.P., **Kim D.**, Davis J.A., Wilson C.N., Doku S., “Combining Geographic Information Systems and web based mapping to more comprehensively inform health programs,” American Public Health Association (APHA) annual conference, Boston, MA, USA; November 2006.
110. **Kim, D.**, Overstreet M.A., Hull A., Miranda M.L., Can GIS help save money?: Using GIS to direct targeted screening for childhood lead poisoning in North Carolina, ESRI Health GIS Conference, Denver, CO, USA; October 2006.

111. **Kim, D.**, Dong B., Poulos C., Whittington D., Serre M., "GIS-based spatial estimation and mapping of private demands for vaccination programs: Evidence from Lingchuan County, China," Association of Collegiate Schools of Planning (ACSP) annual conference, Kansas City, MO, USA; October 2005.
112. **Kim, D.**, Serre M., Montana L., "Spatial analysis of community density-child mortality associations in developing countries: Bayesian Maximum Entropy approach," Poster Presentation, Association for Public Policy Analysis and Management (APPAM) fall conference, Atlanta, GA, USA; October 2004.
113. **Kim, D.**, Serre M., Montana L., "Identifying community-level determinants of child mortality in Bangladesh," Association of Collegiate Schools of Planning (ACSP) annual conference, Portland, OR, USA; October 2004.
114. **Kim, D.**, Serre M., Montana L., "Identifying spatial dependence of household demands for regional health services: Bayesian Maximum Entropy approach" Southern Regional Science Association (SRSA) annual meeting, New Orleans, LA, USA; March 2004.
115. **Kim, D.**, "Valuing the benefits of protecting Cape Hatteras lighthouse: Focusing on selection effects in discrete choice contingent valuation," Association of Collegiate Schools of Planning (ACSP) annual conference, Baltimore, MD, USA; November 2002.

### **Funding for Original Investigations:**

#### *Grants/contracts awarded (as PI or co-PI)*

#### **Ongoing**

##### *Geospatial Community Mapping to Assess Social and Environmental Barriers and Facilitators for Burn Survivors*

Dohyeong Kim (PI), Richard Scotch (co-PI)

Disability and Rehabilitation Research Project (DRRP) Program, National Institute on Disability, Independent Living, and Rehabilitation Research

USD 2,320,495 awarded (UTD portion: USD 249,527), 2022-2027

Role: Secondary data analysis and mapping, scholarly publication and presentation, workshop, and interview.

##### *Academic-Community Multidisciplinary Engagement to Improve Health Outcomes in Career Survivors in the Dallas Fort Worth Area (ACME-DFW)*

Shelia Patterson (Community Lead), Vlad G. Zaha & Carolyn Smith-Morris (University Leads), Dohyeong Kim, Arthur Hong (Key Personnel)

UT Southwestern Medical Center Internal Grant (COEE)

USD 150,000 awarded, 2023-2025

Role: Statistical consultation, geospatial analysis and mapping

##### *Development of Data-Driven Disaster Information Modeling Platform by Analyzing Multifaceted Causal Analysis of Special Disaster Areas*

Chang Kil Lee (PI), Dohyeong Kim (Co-PI), Dong Woo Lee (co-PI)

National Research Foundation of Korea, General Collaborative Research Grant

KRW 300,000,000 (USD 250,000) awarded, 2022-2025

Role: Secondary data analysis and research consultation, scholarly publication and presentation

*Monitoring of Air Pollutants in Livestock Area and Development of Predictive Model based on Artificial Neural Network*

Cheol-Min Lee (PI), Sungchul Seo (co-PI), Hanjong Ko (co-PI), Junghoon Song (co-PI), Dohyeong Kim (Key Personnel)

Rural Development Administration of Korea Research Grant

KRW 1,663,000,000 (USD 1,330,400) awarded, 2022-2027

Role: Secondary data analysis and research consultation, scholarly publication and presentation

*Interventional Study to Prevent Exacerbation of Atopic Dermatitis by Exposure to Particulate Matter*

Kangmo Ahn (PI), SungChul Seo (Co-PI), Woonha Lee (co-PI), Dohyeong Kim (Key Personnel)

Korea Disease Control and Prevention Agency Research Grant

KRW 850,000,000 (USD 629,630) awarded, 2024-2027

Role: Secondary data analysis and research consultation, scholarly publication and presentation

**Completed***Wearable device-based Development of Receptor-centered Exposure-health Assessment Methodology and Platform (WE-DREAM Study)*

Sungchul Seo (PI), Soohyun Lee (co-PI), Daesik Kang (co-PI), Dohyeong Kim (Key Personnel)

Korea Environmental Industry and Technology Institute R&D Project

KRW 4,450,000,000 (USD 3,560,000) awarded, 2021-2024

Role: Secondary data analysis and research consultation, scholarly publication and presentation

*Design of Education and Training Program for Disaster Management Capacity Building*

Chang Kil Lee (PI), Dohyeong Kim (Co-PI), Junghoon Won (co-PI), Sung Cho (co-PI), Jungwon Min (co-PI)

National Civil Defense and Disaster Management Training Institute Grant

KRW 100,000,000 (USD 74,074) awarded, 2024

Role: Overseas case analysis and research consultation, scholarly publication and presentation

*Reducing the Burden of Road Traffic-Associated Mortality using Mobile Technology*

Dohyeong Kim (MPI), Fiemu Nwariaku (PI)

U.S. National Institute of Health (1R21TW010991-01A1)

USD 427,926 awarded (UTD portion: USD 142,816), 2019-2023

Role: Secondary data analysis and tool development, scholarly publication and presentation, fieldwork.

*Spatial Distribution of Natural Radiation in Jeonbuk Province*

Yeol Rho (PI), Dohyeong Kim (co-PI)

National Institute of Environmental Research of Korea, Research Project

KRW 200,000,000 (USD 160,000) awarded, 2023

Role: Secondary data analysis and mapping

*A study on preventing major crimes in Gyeongnam Province*

Dowoo Kim (PI), Dohyeong Kim (co-PI)

Gyeongnam Provincial Police Commission Research Grant

KRW 48,000,000 (USD 36,923) awarded, 2023

Role: Secondary case study and consultation

*Spatiotemporal Big Data Modeling of Emergency Service Dispatch in Chungnam Province*

Dohyeong Kim (PI)



Chungnam Institute Research Project  
KRW 20,000,000 (USD 16,000) awarded, 2023

*Developing Capacity Evaluation Systems for Mid-Stage Leaders of Disaster Management*  
Chang Kil Lee (PI), Dohyeong Kim (co-PI), Jae Eun Lee (co-PI), Joocho Lee (co-PI), Gigeun Yang (Co-PI),  
Junghoon Won (co-PI)  
National Civil Defense and Disaster Management Training Institute Project  
KRW 200,000,000 (USD 160,000) awarded, 2022

*Spatial Distribution of Natural Radiation in Chungbuk Province*  
Yeol Rho (PI), Dohyeong Kim (co-PI)  
National Institute of Environmental Research of Korea, Research Project  
KRW 200,000,000 (USD 160,000) awarded, 2022  
Role: Secondary data analysis and mapping

*Evaluating Needs and Regional Impacts of High Court in Incheon, Korea*  
Eunkyung Chae (PI), Chang Kil Lee (co-PI), Dohyeong Kim (co-PI)  
The Incheon Institute Research Project  
KRW 20,000,000 (USD 16,000) awarded, 2022

*Design and Application of Best Practices for Disaster Management*  
Chang Kil Lee (PI), Dohyeong Kim (co-PI), Changeun Song (co-PI)  
National Disaster Management Research Institute  
KRW 35,810,000 (USD 32,554) awarded, 2021

*Spatial Distribution of Natural Radiation in Chungnam Province*  
Yeol Rho (PI), Dohyeong Kim (co-PI)  
National Institute of Environmental Research of Korea, Research Project  
KRW 200,000,000 (USD 160,000) awarded, 2021  
Role: Secondary data analysis and mapping

*Development and Application of Evaluation Model for Urban Safety based on Sustainable Urban Metabolism*  
Young Un Ban (PI), Dohyeong Kim (co-PI), Yongdae Kim (co-PI), Juho Lee (co-PI), Jae Eun Lee (co-PI),  
Taeyoung Huh (co-PI)  
National Research Foundation of Korea, Multidisciplinary Research Grant  
KRW 1,000,000,000 (USD 833,333) awarded, 2016-2021  
Role: Secondary data analysis, scholarly publication and presentation, all activities are performed over the  
summers. No conflict of interest.

*COVID-19 as Public Health Emergency: Lessons from the U.S.*  
Dohyeong Kim (PI)  
Hope Bridge Korea Disaster Relief Association Research & Development Grant  
KRW 7,290,000 (USD 6,000) awarded, 2020

*Assessing Barriers for Urban Safety Systems and Policies in Response to Urban Decline*  
Jae Eun Lee (PI), Wonbu Shin (co-PI), Dohyeong Kim (co-PI)  
Special Commission on Social Disaster Investigation Research Grant  
KRW 200,000,000 (USD 181,182) awarded, 2019

*National Response to Excessive Air Pollution as a Social Disaster*

Heekwan Lee (PI), Chang Kil Lee (co-PI), Dohyeong Kim (co-PI)  
National Disaster Management Research Institute Research Project  
KRW 100,000,000 (USD 90,909) awarded, 2019

*A Study on the Negative Effects of Illegal Gambling in South Korea*  
Dohyeong Kim (PI)  
National Gambling Control Commission Research Project  
KRW 9,000,000 (USD 8,182) awarded, 2019

*Development of Managerial System for Preventing Allergic Diseases using GIS-based Risk Index and IT-based Technology*  
Sungchul Seo (PI), Dohyeong Kim (co-PI)  
National Research Foundation of Korea, General Competitive Grant Extended  
KRW 111,000,000 (USD 92,500) awarded, 2016-2018

*Preparedness for Vulnerable Populations During Large-Scale Disasters*  
Dohyeong Kim (PI)  
Korea Disaster Relief Association Research & Development Grant  
KRW 30,000,000 (USD 27,300) awarded, 2017

*Comparative Geospatial Analysis of Injury Burden in Low and Middle Income Countries*  
Dohyeong Kim (PI)  
University of Texas Southwestern Medical Center  
USD 6,880 awarded, 2017

*Public-Private Partnership for Cost-Saving Construction of Safety Village*  
Jae Eun Lee (PI), Dohyeong Kim (co-PI)  
Choongchungbuk-Do Research & Development Grant  
KRW 44,000,000 (USD 39,462) awarded, 2017

*Spatial allocation of hospitals with negative pressure isolation rooms in Korea: Are we ready for the next outbreak?*  
Chang Kil Lee (PI), Dohyeong Kim (co-PI)  
Incheon National University, International Collaborative Research Grant  
KRW 10,000,000 (USD 9,100) awarded, 2017

*Exploring Determinants for Recruitment and Retention of Family Doctors for Rural Practice in Vietnam: Lessons from a Discrete Choice Experiment*  
Dohyeong Kim (PI)  
Haiphong University of Medicine and Pharmacy  
USD 5,000 awarded, 2016

*Comparative Studies of Barriers to Healthy Food Accessibility: Evidence for Demand-Side Factors in US and South Korea*  
Chang Kil Lee (PI), Dohyeong Kim (co-PI)  
Incheon National University, International Collaborative Research Grant  
KRW 10,000,000 (USD 9,524) awarded, 2015

*Experiencing Dallas as a Future City: Technology, Culture and Governance*  
Dohyeong Kim (PI)

Incheon National University International Internship Program Grant  
USD 16,031 awarded, 2015

*Center for Geospatial Research in Global Health Policy: Developing a Spatial Data and Research Hub for the Global Health Communities*

Dohyeong Kim (PI)  
EPPS Advisory Council Grants  
USD 5,000 awarded, 2015

*Reflections on Theory and Methods in Empirical Studies of Marketing-Sector Businesses*

Chang Kil Lee (PI), Dohyeong Kim (co-PI)  
Incheon National University, International Collaborative Research Grant  
KRW 10,000,000 (USD 9,524) awarded, 2014

*Mapping for the Unreached: Evaluating Spatial Prediction for Child Immunization Coverage in Bangladesh*

Dohyeong Kim (PI)  
EPPS Advisory Council Grants  
USD 5,000 awarded, 2014

*Implementation Science to Optimize Malaria Vector Control and Disease Management*

Dohyeong Kim (PI)  
National Institute of Health/Duke University (R01 Grant)  
USD 15,948.72 awarded, 2014

*Does Optimization Modeling Improve Policy Decisions and Implementation? The Complexity of Joint Action in Health Policy Process*

Chang Kil Lee (PI), Dohyeong Kim (co-PI)  
Incheon National University, International Collaborative Research Grant  
KRW 10,000,000 (USD 9,524) awarded, 2013

*Equity in Voting Accessibility*

Chang Kil Lee (PI), Dohyeong Kim (co-PI)  
Incheon National University, International Collaborative Research Grant  
KRW 10,000,000 (USD 9,524) awarded, 2013

*An interdisciplinary study on assessing environmental risk factors for allergic diseases and developing preventive strategies using GIS-based spatial modeling and IT-based technology*

Sungchul Seo (PI), Dohyeong Kim (co-PI)  
National Research Foundation of Korea, General Competitive Grant  
KRW 141,000,000 (USD 134,285) awarded, 2012-2015

*Implementation Science to Optimize Malaria Vector Control and Disease Management*

Dohyeong Kim (PI)  
National Institute of Health/Duke University (R01 Grant)  
USD 60,691.07 awarded, 2011-2013

*Food Deserts in Korea: Improving Healthy Food Accessibility through Public Policy*

Chang Kil Lee (PI), Dohyeong Kim (co-PI)  
Incheon National University, International Collaborative Research Grant  
KRW 10,000,000 (USD 9,524) awarded, 2012

*Malaria Decision Analysis Support Tool (MDAST): Evaluating Health, Social and Environmental Impacts and Policy Tradeoffs*

Dohyeong Kim (PI)  
World Health Organization/Duke University  
USD 15,310 awarded, 2009-2010

*Clinical & Translational Science Awards*

Dohyeong Kim (PI)  
Duke University  
USD 19,290.86 awarded, 2009-2010

*Developing a Targeted Screening Policy for Preventing Childhood Lead Poisoning in Seoul*

Jaewook Choi (PI), Dohyeong Kim (co-PI)  
Seoul Metropolitan Council  
KRW 20,000,000 (USD 19,047) awarded, 2009

Proposals submitted:

*Transforming Emergency Care: A Feasibility Assessment of Digital Ambulance and Bed Allocation Systems in Lagos State, Nigeria*

Aina Olufemi Odusola (PI), Tahir Buhari (Co-PI), Nicholas Allo (co-PI), Dohyeong Kim (Specialist)  
UK Research and Innovation Medical Research Council (MRC)  
GBP 118,515 (USD 148,676) requested (UTD only), 2025-2027  
Current status: under review

*Interventional Study to Prevent Exacerbation of Atopic Dermatitis by Exposure to Particulate Matter*

Kangmo Ahn (PI), SungChul Seo (Co-PI), Woonha Lee (co-PI), Dohyeong Kim (Key Personnel)  
Korea Disease Control and Prevention Agency Research Grant  
KRW 850,000,000 (USD 629,630) requested, 2024-2027  
Current status: funded

*Design of Education and Training Program for Disaster Management Capacity Building*

Chang Kil Lee (PI), Dohyeong Kim (Co-PI), Junghoon Won (co-PI), Sung Cho (co-PI), Jungwon Min (co-PI)  
National Civil Defense and Disaster Management Training Institute Research Grant  
KRW 100,000,000 (USD 74,074) requested, 2024  
Current status: funded

*A Study on Improving Localized Disaster Response Systems*

Chang Kil Lee (PI), Dohyeong Kim (Co-PI), Jooho Lee (co-PI), Jungil Na (co-PI), Jungmi Baek (co-PI)  
Ministry of the Interior and Safety Research Grant  
KRW 50,000,000 (USD 37,037) requested, 2024  
Current status: rejected

*Academic-Community Multidisciplinary Engagement to Improve Health Outcomes in Career Survivors in the Dallas Fort Worth Area (ACME-DFW)*

Shelia Patterson (Community Lead), Vlad G. Zaha & Carolyn Smith-Morris (University Leads), Dohyeong Kim, Arthur Hong (Key Personnel)  
UT Southwestern Medical Center Internal Grant (COEE)

USD 150,000 requested, 2023-2024  
Current status: funded

*Emerging tick-borne diseases among youth in agricultural areas in the United States: strategies for rapid response risk assessment and public health planning*

Sarah Maxwell (PI), Dohyeong Kim (co-PI), Connie McNeely (co-PI)  
National Children's Center, Emerging Issues Program  
USD 25,000 requested, 2023-2024  
Current status: under review

*Spatial Distribution of Natural Radiation in Jeonbuk Province*

Yeol Rho (PI), Dohyeong Kim (co-PI)  
National Institute of Environmental Research of Korea, Research Project  
KRW 200,000,000 (USD 160,000) requested, 2023  
Current status: funded

*Spatiotemporal Big Data Modeling of Emergency Service Dispatch in Chungnam Province*

Dohyeong Kim (PI)  
Chungnam Institute Research Project  
KRW 20,000,000 (USD 16,000) requested, 2023  
Current status: funded

*A study on preventing major crimes in Gyeongnam Province*

Dowoo Kim (PI), Dohyeong Kim (co-PI)  
Gyeongnam Provincial Police Commission Research Grant  
KRW 48,000,000 (USD 36,923) requested, 2023  
Current status: funded

*Developing and Implementing an Infectious Disease Early Alert System (IDEAS) using Spatiotemporal Mapping and AI-based Predictive Analytics*

Dohyeong Kim (PI), Latifur Khan (co-PI)  
National Institute of Health R01 Grant (in collaboration with UTSW and KNCV Nigeria)  
USD 742,353 requested, 2022-2027  
Current status: rejected

*Geospatial Community Mapping to Assess Social and Environmental Barriers and Facilitators for Burn Survivors*

Dohyeong Kim (PI), Richard Scotch (co-PI)  
Disability and Rehabilitation Research Project (DRRP) Program, National Institute on Disability, Independent Living, and Rehabilitation Research  
USD 249,527 requested, 2022-2027  
Current status: funded

*Developing a Technological Solution to Assist with Transportation Obstacles for People in Food Deserts*

Mark Evans (PI), Coleysia Chestnut (PM), Andrew Miller (PDS), Dohyeong Kim (Consultant)  
Small Business Innovation Research (SBIR) program, U.S. Department of Transportation  
USD 200,000 requested, 2022  
Current status: rejected

*Development of Data-Driven Disaster Information Modeling Platform by Analyzing Multifaceted Causal Analysis of Special Disaster Areas*

Chang Kil Lee (PI), Dohyeong Kim (Co-PI), Dong Woo Lee (co-PI)  
National Research Foundation of Korea, General Collaborative Research Grant  
USD 250,000 requested, 2022-2025  
Current status: funded

*Monitoring of Air Pollutants in Livestock Area and Development of Predictive Model based on Artificial Neural Network*

Cheol-Min Lee (PI), Sungchul Seo (co-PI), Hanjong Ko (co-PI), Junghoon Song (co-PI), Dohyeong Kim (Key Personnel)  
Rural Development Administration of Korea Research Grant  
KRW 1,663,000,000 (USD 1,330,400) requested, 2022-2027  
Current status: funded

*Developing Capacity Evaluation Systems for Mid-Stage Leaders of Disaster Management*

Chang Kil Lee (PI), Dohyeong Kim (co-PI), Jae Eun Lee (co-PI), Jooho Lee (co-PI), Gigeun Yang (Co-PI), Junghoon Won (co-PI)  
National Civil Defense and Disaster Management Training Institute Project  
KRW 200,000,000 (USD 160,000) requested, 2022  
Current status: funded

*Spatial Distribution of Natural Radiation in Chungbuk Province*

Yeol Rho (PI), Dohyeong Kim (co-PI)  
National Institute of Environmental Research of Korea, Research Project  
KRW 200,000,000 (USD 160,000) requested, 2022  
Current status: funded

*Evaluating Needs and Regional Impacts of High Court in Incheon, Korea*

Eunkyung Chae (PI), Chang Kil Lee (co-PI), Dohyeong Kim (co-PI)  
The Incheon Institute Research Project  
KRW 20,000,000 (USD 16,000) requested, 2022  
Current status: funded

*Partnerships to Advance Injury Research and Management in sub-Saharan Africa (PAIRMA)*

Fiemu Nwariaku (PI), Raymond Swienton (Co-PI), Dohyeong Kim (Co-PI), Olumuyiwa Odusanya (co-PI)  
U.S. National Institute of Health (D43)  
USD 212,165 requested, 2021-2026  
Current status: rejected

*Wearable device-based Development of Receptor-centered Exposure-health Assessment Methodology and Platform (WE-DREAM Study)*

Sungchul Seo (PI), Soohyun Lee (co-PI), Daesik (co-PI), Dohyeong Kim (Key Personnel)  
Korea Ministry of Health R&D Project  
KRW 4,450,000,000 (USD 3,560,000) requested, 2021-2025  
Current status: funded

*Psychological Testing and the Selection of Police Officers in South Korea*

Wonbu Shin (PI), Dohyeong Kim (co-PI), Jung Ryu (co-PI)  
Korea Central Police Academy

USD 70,435 requested, 2021-2022  
Current status: rejected

*Design and Application of Best Practices for Disaster Management*  
Chang Kil Lee (PI), Dohyeong Kim (co-PI), Changeun Song (co-PI)  
National Disaster Management Research Institute  
USD 32,554 requested, 2021  
Current status: funded

*Bench to Community: Data Science for African Health Professionals (DSAHP)*  
Dohyeong Kim (PI), Fiemu Nwariaku (co-PI), Latifur Khan (co-PI), Olumuyiwa Odusanya (co-PI)  
U.S. National Institute of Health (U2R)  
USD 1,742,748 requested, 2021-2026  
Current status: rejected

*Developing an Infectious Disease Early Alert System (IDEAS) using Mobile Technology, Spatiotemporal Modeling and Predictive Analytics*  
Dohyeong Kim (PI), Latifur Khan (MPI)  
U.S. National Institute of Health (R21/R33)  
USD 420,825 requested, 2021-2026  
Current status: rejected

*Improving the Projection of SARS-Cov-2 Outbreaks through Social Media Web Scraping, Machine Learning, and Spatiotemporal Mapping*  
Dohyeong Kim (PI), Latifur Khan (co-PI)  
U.S. National Institute of Health (R21)  
USD 224,088 requested, 2021-2023  
Current status: rejected

*Spatial Distribution of Natural Radiation in Chungnam Province*  
Yeol Rho (PI), Dohyeong Kim (co-PI)  
National Institute of Environmental Research of Korea, Research Project  
KRW 200,000,000 (USD 160,000) requested, 2021  
Current status: funded

*Multimodel Data-driven Pandemic Modeling, Simulation and Calibration for Prediction, Prevention and Planning*  
Mayank Kejriwal (PI), Vito D'Orazio (co-PI), Dohyeong Kim (co-PI)  
COVID-19 Seeding Research, Intelligence Advanced Research Projects Activity (IARPA)  
USD 110,525 requested (UTD side only), 2020-2021  
Current status: rejected

*Spatiotemporal Deep Learning Projection for COVID-19 in LMIC Settings*  
Latifur Khan (PI), Dohyeong Kim (co-PI), Fiemu Nwariaku (co-PI), Okey Okuzu (co-PI)  
Gates Foundation's Grand Challenges ICODA COVID-19 Data Science Initiative  
USD 100,000, 2021-2022  
Current status: rejected

*Social Interaction Skills Training (ASIST) for Burn Injury Survivors: Facilitating Community Living and Participation*

Radha Holavanahalli (PI), Dohyeong Kim (PI at UTD), Richard Scotch (Co-PI at UTD)  
Disability and Rehabilitation Research Projects (DRRP) Program Research Grant  
National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR), Administration  
for Community Living, US Department of Health and Human Services  
USD 483,532 requested, 2020-2025  
Current status: rejected

*Exploring the Impact of Pandemics on Anti-Asian Sentiment in the United States*  
Timothy Bray (PI), Dohyeong Kim (co-PI), Denise Boots (Co-PI)  
COVID-Focused Social Sciences Research Grant, Russell Sage Foundation  
USD 175,000 requested, 2021-2022  
Current status: rejected

*Protecting Health Workers by using Mobile Technology for Digital Contact Tracing during the COVID-19  
Pandemic in Lagos, Nigeria*  
Fiemu Nwariaku (PI), Dohyeong Kim (PI at UTD), Nicholas Allo (co-PI)  
Research Funding to Support COVID-19 Response in Humanitarian Settings, Enhancing Learning and Research  
for Humanitarian Assistance (ELRHA)  
USD 106,299 requested, 2020  
Current status: rejected

*Predicting Risk of Respiratory Disease Exacerbation*  
Dohyeong Kim (PI), Lakshman Tamil (co-PI)  
UTD Seed Program for Interdisciplinary Research (SPIRe)  
USD 100,000 requested, 2020-2021  
Current status: rejected

*Development and Application of Global Standards for Evaluating Urban Disaster and Safety Management as  
Foundation for Safe Communities*  
Chang Kil Lee (PI), Dohyeong Kim (co-PI)  
National Research Foundation of Korea, General Collaborative Research Grant  
KRW 288,390,000 (USD 262,173) requested, 2019-2022  
Current status: rejected

*Predicting Personalized Risk of Respiratory Disease Exacerbation*  
Dohyeong Kim (PI), Lakshman Tamil (co-PI)  
UTD Seed Program for Interdisciplinary Research (SPIRe)  
USD 100,000 requested, 2019-2020  
Current status: rejected

*A Study on Reinforcing Disaster Management Capacity and Planning Disaster Evacuation*  
Jae Eun Lee (PI), Dohyeong Kim (co-PI)  
Special Commission on Social Disaster Investigation Research Grant  
KRW 100,000,000 (USD 90,909) requested, 2019  
Current status: rejected

*Geo-IoT Service Model for Keeping Mothers and Newborns away from Endocrine Disruptors: Integrated Air  
Quality Monitoring and Alarm Services Customized for Environmentally-Vulnerable Populations*  
Ju Hee Kim (PI), Dohyeong Kim (co-PI)  
Korea Health Industry Development Institute Planning Grant



KRW 50,000,000 (USD 45,455) requested, 2019  
Current status: rejected

*Evaluation of Disaster Safety Projects 2019*  
Jae Eun Lee (PI), Dohyeong Kim (co-PI)  
Ministry of the Interior and Safety Research Grant  
KRW 194,165,604 (USD 176,514) requested, 2019  
Current status: rejected

*Developing Disaster Safety Net for Elderly Population*  
Chang Kil Lee (PI), Dohyeong Kim (co-PI)  
Korea Disaster Relief Association Research & Development Grant  
KRW 30,000,000 (USD 27,300) requested, 2018  
Current status: rejected

*Socio-economic Equality Exposome (SEE)*  
Jae Eun Lee (PI), Dohyeong Kim (co-PI)  
National Research Foundation of Korea, Convergence Research Center (CRC) Grant  
USD 9,150,000 requested, 2018  
Current status: rejected

*Reducing the Burden of Road Traffic-Associated Mortality using Mobile Technology*  
Fiemu Nwariaku (PI), Dohyeong Kim (PI)  
U.S. National Institute of Health (R21 Grant)  
USD 72,646 requested, 2017  
Current status: rejected

*Research and Development of Environmental Health Monitoring System for Prevention and Control of Allergic Diseases*  
Sungchul Seo (PI), Dohyeong Kim (co-PI)  
Ministry of Environment (Government of Korea) Environmental Health R&D Grant  
KRW 3,000,000,000 (USD 2,727,273) requested, 2016  
Current status: rejected

*Building Safe Communities in Sejong Metropolitan Autonomous City*  
Jae Eun Lee (PI), Dohyeong Kim (co-PI)  
Sejong Metropolitan Autonomous City Government  
KRW 150,000,000 (USD 142,857) requested, 2016  
Current status: rejected

*What Level of Tourism Traffic Should be Planned for in North Carolina's Major Tourism Areas?*  
Dohyeong Kim (PI)  
North Carolina Department of Transportation (NCDOT)  
USD 208,352 requested, 2012  
Current status: rejected

*Incident Management Assistance Patrols: Assessment of Benefits/Cost and Route Selection & Prioritization*  
Dohyeong Kim (PI)  
North Carolina Department of Transportation (NCDOT)  
USD 208,352 requested, 2012

Current status: rejected

*HUD Community Challenge Planning Grants and TIGER II Planning Grants*

Dohyeong Kim (PI)

U.S. Department of Transportation & U.S. Department of Housing & Urban Development

USD 5,672,778 requested, 2011

Current status: rejected

*Impact of Affordable Housing: A Spatial Analysis of Habitat for Humanity Houses, Durham, North Carolina*

Dohyeong Kim (PI)

Faculty-Student Scholarly/Creative Productivity Initiative

USD 5,000 requested, 2010

Current status: rejected

*Using Administrative Data to Assess Effect of Lead Exposure on School Performance*

Jerome Reiter (PI), Dohyeong Kim (co-PI)

U.S. National Institute of Health (R21 Grant)

USD 164,682 requested, 2010

Current status: rejected

*Developing a Malaria Decision Analysis Support Tool for Liberia's National Malaria Control Program*

Dohyeong Kim (PI)

Ministry of Health & Social Affairs, Republic of Liberia

USD 70,000 requested, 2009

Current status: rejected

*Developing Innovative Decision Tools for Policymakers on Vector Control and Disease Treatment Methods for Malaria Prevention*

Randall Kramer (PI), Dohyeong Kim (co-PI)

Izumi Foundation

USD 100,000 requested, 2008

Current status: rejected

### **Appearance on Media:**

Korea Town News, September 2024

[https://www.dalkora.com/bbs/board.php?bo\\_table=dk\\_town&wr\\_id=24449&sca=타운뉴스&page=2](https://www.dalkora.com/bbs/board.php?bo_table=dk_town&wr_id=24449&sca=타운뉴스&page=2)

Jungbu Maeil Newspaper, July 2024

<http://www.jbnews.com/news/articleView.html?idxno=1443907>

Drug Discovery News, May 2024

<https://www.drugdiscoverynews.com/an-ai-powered-tool-monitors-lung-sounds-15946>

Dallas Morning News, May 2024

<https://www.dallasnews.com/news/2024/05/09/north-texans-may-be-exposed-to-potential-carcinogens-while-driving-their-cars-study-finds/>

UT Dallas News Center, April 2024

<https://news.utdallas.edu/social-sciences/early-warning-asthma-attacks-2024/>

BioNTX, April 2024

<https://www.biontx.org/community-news/advancing-respiratory-health-monitoring-a-breakthrough-algorithm-for-early-detection>

Hospimedia.com (Daily Clinical News), April 2024

<https://www.hospimedia.com/critical-care/articles/294800999/wheeze-counting-wearable-device-monitors-patients-breathing-in-real-time.html>

Korea Town News, November 2023

[https://dalkora.com/bbs/board.php?bo\\_table=ktn\\_news&wr\\_id=3207&page=2](https://dalkora.com/bbs/board.php?bo_table=ktn_news&wr_id=3207&page=2)

Korea Town News, October 2023

[https://dalkora.com/bbs/board.php?bo\\_table=ktn\\_news&wr\\_id=3139](https://dalkora.com/bbs/board.php?bo_table=ktn_news&wr_id=3139)

News Medical, July 2023

<https://www.news-medical.net/news/20230731/Using-geospatial-mapping-techniques-to-assist-burn-injury-survivors.aspx>

UT Dallas News Center, July 2023

<https://news.utdallas.edu/social-sciences/geospatial-mapping-burn-patients-2023/>

Community Impact, June 2023

<https://communityimpact.com/dallas-fort-worth/lake-highlands-lakewood/health-care/2023/06/10/dallas-residents-zip-code-can-change-life-expectancy/>

Korea Town News, May 2023

[https://dalkora.com/bbs/board.php?bo\\_table=ktn\\_news&wr\\_id=2927](https://dalkora.com/bbs/board.php?bo_table=ktn_news&wr_id=2927)

UT Dallas News Center, May 2023

<https://news.utdallas.edu/faculty-staff/presidents-teaching-awards-2023>

YTN News, May 2023

<https://youtu.be/kpcbSWKcKq4>

World Korean News, December 2022

<https://www.worldkorean.net/news/articleView.html?idxno=46442>

DK Net News, December 2022

[https://dalkora.com/bbs/board.php?bo\\_table=town&wr\\_id=18295&page=2](https://dalkora.com/bbs/board.php?bo_table=town&wr_id=18295&page=2)

Safe Today, July 2022

<http://www.safetoday.kr/news/articleView.html?idxno=71334>

Machine Learning Times, March 2022

<https://www.predictiveanalyticsworld.com/machinelearningtimes/wise-practitioner-predictive-analytics-interview-series-dohyeong-kim-phd-at-university-of-texas-at-dallas/12507/>

What to Know: A Bi-Weekly Video Series, UT Southwestern Medical Center, February 2022

<https://utswmed.org/whattoknow/>

Korea Town News, February 2022

[https://dalkora.com/bbs/board.php?bo\\_table=ktn\\_news&wr\\_id=2140](https://dalkora.com/bbs/board.php?bo_table=ktn_news&wr_id=2140)

[https://dalkora.com/bbs/board.php?bo\\_table=ktn\\_news&wr\\_id=2137](https://dalkora.com/bbs/board.php?bo_table=ktn_news&wr_id=2137)

2015 – 2021

Panelist at Current Affair Radio Show (“Si-Sa Plus”), Dallas Korean Radio (DKNET; AM730), Monthly Appearance.

Korea Lecturer News, October 2021

<http://www.lecturernews.com/news/articleView.html?idxno=78140>

UT Dallas News Center, September 2021

<https://news.utdallas.edu/health-medicine/lyme-disease-ticks-2021/>

Hyundai Motors Group CSR Newsletter, August 2021

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The Science Times, November 2020

<https://www.sciencetimes.com/articles/28396/20201124/new-study-evaluates-preparedness-against-future-disease-outbreaks.htm>

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<https://www.discoverrichardson.com/colleges/researcher-investigates-preparedness-for-new-disease-outbreaks-in-south-korea/>

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Korea Town News, February 2020

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UT Dallas News Center, February 2020

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KBS News, December 2018

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Dalsaram DS Video News, October 2018

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<https://www.ucsf.edu.ar/el-prof-dohyeong-kim-disertara-sobre-salud-en-el-ciclo-de-conferencias-sobre-politicas-publicas/>

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[http://www.sciencecodex.com/study\\_finds\\_wide\\_gap\\_in\\_compensation\\_from\\_07\\_south\\_korean\\_oil\\_spill-140860](http://www.sciencecodex.com/study_finds_wide_gap_in_compensation_from_07_south_korean_oil_spill-140860)

UT Dallas News Center, Research, May 2014

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UT Dallas News Center, EPPS Faculty Receive Teaching Comet Awards, May 2014

[http://www.utdallas.edu/news/2014/5/14-30031\\_EPPS-Faculty-Receive-Teaching-Comet-Awards\\_story-sidebar.html](http://www.utdallas.edu/news/2014/5/14-30031_EPPS-Faculty-Receive-Teaching-Comet-Awards_story-sidebar.html)

UT Dallas News Center, EPPS Faculty Spotlight, January 2014

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Quest: Research at North Carolina Central University, Winter 2013

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<http://www.medicalnewstoday.com/articles/247544.php>

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The Times of India, July 2012

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Hematology Times, July 2012

[http://www.hematologytimes.com/p\\_article.do?id=2444](http://www.hematologytimes.com/p_article.do?id=2444)



Malaria World, July 2012

<http://www.malariaworld.org/category/medical-treatment/ddt>

NCCU Alumni Association, July 2012

<http://www.nccudc.org/news071012.html>

ChildSurvival.net, July 2012

[http://childsurvival.net/?content=com\\_articles&artid=1271](http://childsurvival.net/?content=com_articles&artid=1271)

Duke Today, October 2009

[http://m.today.duke.edu/2009/10/lead\\_testing.html](http://m.today.duke.edu/2009/10/lead_testing.html)

Emerging Health Threats Monitor, August 2008 (pdf document available upon request)

Duke Global Health Institute News Article, April 2008

<http://globalhealth.duke.edu/news-events/global-health-article/people-april-2008/>

## **Teaching and Advising:**

### *Doctoral advisement/direction as a chair/co-chair:*

Yi-En Tso, Ph.D awarded in 2016 (PPPE)

“Optimal Locations for Emergency Shelters in Taiwan: A Policy Issue in Emergency Planning”

Immediate employer: Assistant Professor, National Chi Nan University, Taiwan

Priyanka Vyas, Ph.D awarded in 2017 (PPPE)

“Essays on Organization, Delivery and Utilization of Health Services in Bangladesh”

Immediate employer: Postdoctoral Scholar, University of California at San Francisco, USA

Anh Pham, Ph.D awarded in 2017 (PPPE)

“Exploring Determinants for Recruitment and Retention of Family Doctors for Rural Practice in Vietnam: Lessons from a Discrete Choice Experiment”

Immediate employer: Assistant Professor, Foreign Trade University, Hanoi, Vietnam

Soojin Min, Ph.D awarded in 2018 (PPPE)

“Disparity in Risk Factors for Urban Residential Fire Related Injuries and Deaths”

Immediate employer: Data Analytics and Researcher, Boston Medical Center, USA

HyoungAh Kim, Ph.D awarded in 2019 (PPPE)

“Three Essays on Traffic Crashes: Global Health Burdens and Policy Interventions”

Immediate employer: Postdoctoral Scholar, Chung-Ang University, Seoul, Korea

Carols Daniel Gutierrez Mannix, Ph.D awarded in 2022 (Political Science)

“Communication by Hispanics in the United States Congress: Three Essays on the Use of Spanish, Content Analysis and Social Network Analysis”

Immediate employer: University of Texas at Rio Grande Valley

Adela Santana, PhD awarded in 2022 (PPPE)

“Untapping the potential of health information technology (HIT) to transform healthcare: a study of the effect of local market competition on the adoption of HIT”

Immediate employer: CitySquare

Julie Chu, PhD expected in 2025 (PPPE)

“Is the root cause of climate change fossil fuels or livestock? Comparison of impacts, projection of consequences and recommendations”

Shivani Chowdhry, Ph.D expected in 2025 (PPPE)

"Effects of ambient and household air pollution on mental health in India"

Dohyo Jung, Ph.D expected in 2025 (PPPE)

"Spatiotemporal mismatch of emergency medical resources in Nigeria, South Korea and the United States"

Pyung Kim, Ph.D expected in 2026 (PPPE)

"The impacts of neighborhoods on long-term labor market outcomes for children with disabilities: evidence from Texas"

Yichao Jin, Ph.D expected in 2026 (PPPE)

"Explore the determinants of time preferences for COVID-like disease vaccination in mainland China: an application of discrete choice experiment study"

Doctoral advisement/direction as a committee member:

Corey Adam Hendon, Ph.D awarded in 2014 (PPPE)

“Policy Futures: A Fiscal Policy Innovation for Globally-Integrated Communities”

Kwang Bin Bae, Ph.D awarded in 2015 (Public Affairs)

“Three Essays on Human Resource Policies”

Ferzana Havewala, Ph.D awarded in 2015 (PPPE)

“The Food Environment and Residential Segregation”

Amy Hughes, Ph.D degree awarded in 2016 (GIS)

“Residential Mortality and CRC Screening: A Spatial Analysis of CRC Screening in an Urban Safety-Net Clinic”

Xiang Cai, Ph.D degree awarded in 2016 (PPPE)

“Affordable Housing Policies in China: A Comparative Case Study”

Alisha Kim, Ph.D degree awarded in 2017 (PPPE)

“New Models of Multilateralism: Investigating the Dynamics of Transboundary Water Governance”

Yingyuan Zhang, Ph.D degree awarded in 2017 (PPPE)

“Chinese Residential Housing Policy Evaluation”

Viveca Pavon, Ph.D degree awarded in 2018 (PPPE)

“Dynamics of Violence in El Salvador”

Patricia Pan, Ph.D degree awarded in 2018 (PPPE)

“The Search for Clarity: An Impact Assessment of Permanent Supportive Housing in Dallas, Texas and Comparative Case Studies of Housing First in Five Cities”

Olufunloa Arowolo, Ph.D degree awarded in 2019 (PPPE)

“Foreign Investment Dependence and Infant Mortality Outcomes in the Sub-Sahara: A Bayesian P-Spline Approach to Processing Missing Sub-regional Data”

Brett Cease, Ph.D degree awarded in 2019 (PPPE)

“Climate Policy by Subnational Actors Amidst the U.S. Federal Vacuum”

Yeondae Jung, Ph.D degree awarded in 2019 (GIS)

“Spatiotemporal modeling of crime in urban environments: three studies in Seoul, South Korea and Dallas, TX”

Lan Hu, Ph.D degree awarded in 2020 (GIS)

“Negative spatial autocorrelation and its impacts on georeferenced data analysis: with case studies of cancer incidents”

David Saucedo, Ph.D degree awarded in 2020 (PPPE)

“The effect of drug-related violence on Mexico’s economy: FDI inflows, labor productivity, and remittances. A Spatial econometric approach”

Paulo Cavallo, Ph.D degree awarded in 2020 (PPPE)

“Unraveling the role of global cities in attracting FDI: hierarchical and spatial analyses of greenfield investment in metro areas in the US”

Danielle Zaychik, Ph.D degree awarded in 2020 (PPPE)

“Looking Under Our Boot-Soles: Three Studies in Disaster Mortality and Mortality Data”

Ogulsoltan Arazgeldiyeva, Ph.D degree awarded in 2021 (PPPE)

“Factors Affecting Shingles Vaccination Rate in Seniors: Mixed Method Study”

Christine Oketch, Ph.D degree awarded in 2021 (PPPE)

“The Future of Soft Skills in a High Technology Labor Market”

Sayeed Salam, PhD degree awarded in 2021 (Computer Science)

“A big data framework for unstructured text processing with application towards political science and healthcare”

Andrew Gormley, PhD degree expected in 2023 (PPPE)

“COVID-19 and the struggle with public policies”

Meifang Chen, PhD degree expected in 2023 (GIS)

“Spatially explicit machine learning approaches for house price models”

Yanan Wu, PhD degree awarded in 2024 (GIS)

"Analysis of space-time events as individuals, sequences and areal aggregates"

Tamnala Briggs-Megafu, PhD degree expected in 2025 (PPPE)

" The impact of the informal sector and the urban-rural divide effect on out-of-pocket health expenses in sub-Saharan Africa"

*Masters advisement/direction:*

Adrianna Uddin, Masters Research Fellowship Program (Summer 2020)

Hannah Das, Master's project in GIS (Fall 2019 – Spring 2020)  
“Road capacity in Sunnyvale, Texas”

Viveca Pavon, Master's project in GIS (Spring 2016 – Spring 2019)  
“Spatial patterns of conflicts in Colombia”

Mary Smith, Master's project in GIS (Fall 2016 – Spring 2017)  
“Spatial dimensions of Nipah Viral Encephalitis”

Alisha Kim, Master's project in GIS (Spring 2016 – Fall 2017)  
“Rethinking multilateral river basin governance: the role of spatial relationships in river basin interaction”

*Internship/Independent Study advising:*

Ziya Cologlu (Ph.D student in PPPE program), data analyst internship at EquityMetrix, Summer 2015

Brett Cease (Ph.D student in PPPE program), Summer 2016

Soojin Min (Ph.D student in PPPE program), RAND Summer Associate Program, Summer 2016

Suzie Despres (Certificate in Program Evaluation student), Summer 2021

Sunghye Choi (Certificate in Economic and Demographic Data Analysis student, Spring 2022)

Dohyo Jung (Ph.D student in PPPE program), Summer 2022, Spring 2023

Shivani Chowdhry (Ph.D student in PPPE program), Summer 2022

Pyung Kim (Ph.D student in PPPE program), Summer 2022

Gregory Argueta (Ph.D student in PPPE program), Summer 2023

McKayla Sharp (Master student), Summer 2023

Julie Chu (Ph.D student in PPPE program), Summer 2024

Karim Iqbal (Master student), Summer 2024

Jhanvi Kannan (Master student), Summer 2024

*Undergraduate student advising:*

Rushi Trivedi, Aarya Desai, Bhavya Rayankula, Sanskriti Aripineni, Samajah Abburi, Hamza Khawaja (ACM Research Team, Computer Science Department), Dr. Derma project, 2024-2025

Nivedha Sreenivasan, Alex My-Linh Miller, Shreya Krishnan, Rommel Isaac Angeles Baldivas, Megan Suzanne Chacko (ACM Research Team, Computer Science Department), LegalEye project, 2023-2024

Chika Hotta (Biology, Collegium V Honors Student), 2024

Zara Iqbal (Computer Science), 2024

Shreya Reddy Billa (Geospatial Information Sciences, Collegium V Honors Student), 2024

Abis Naqvi, Zara Iqbal, Sriram Sendhil, Amulya Rayabhagi, Aarushi Gupta, Nivedha Sreenivasan (ACM Research Team, Computer Science Department), ForensicSight project, 2023-2024

Pranav Kumar (Biochemistry, Collegium V Honors Student), KCDC project, 2023

Nabeeha Hassan (pre-med, Collegium V Honors Student), NIDDLRR/UTSW project, 2023

Katelyn Bonvillain (Collegium V Honors Student), capstone project, 2023

Cindy Nguyen (Healthcare Studies), 2022-2023

Anirudh Yadavalli (Mathematics and Statistics, Collegium V Honors Student), 2022-2023

Zoe Xian Du (Biology and Statistics, Collegium V Honors Student), 2022-2023

Calis Lim (Cognitive Science, Collegium V Honors Student), capstone project, 2022  
 Gloria Geevarghese (Healthcare Studies, Academic Excellence Scholar), 2022-2023  
 Megan Whiting (Molecular Biology, Collegium V Honors Student), capstone project, 2022  
 Ally Wong (Biology & Healthcare Management, Collegium V Honors Student, 2021 Undergraduate Research Scholar Awards under my supervision), 2021-2022  
 Avirut Mehta (International Political Economy, Eugene McDermott Scholar, 2020 Undergraduate Research Scholar Awards under my supervision), 2020-2023  
 Heba Mohiuddin (Political Science), 2020~2023  
 Sneha Gajala (Neuroscience, Collegium V Honors Student, 2020 Undergraduate Research Scholar Awards under my supervision), 2020-2021  
 Priya Nalliah (Neurosciences), 2020-2021  
 Hiba Khan (Behavioral and Brain Sciences), 2020-2022  
 Rahul Anand (Neuroscience, Collegium V Honors Student), applied for Archer Fellowship under my supervision, 2020-2021  
 Kevin George (Healthcare Management), 2020  
 Arunima Sareen (Neuroscience), 2020~2021  
 Sahajveer Mann (Biology), 2020~2021  
 Ezra Davidson (Public Policy), 2020~2021  
 Premini Nagesh (Biology, Collegium V Honors Student), capstone project, 2020  
 Sabeen Wazir (Psychology, 2019 Undergraduate Research Scholar Award under my supervision), 2019-2020  
 Kendra Egharevba (Neuroscience, Collegium V Honors Student), capstone project, 2019-2020  
 Sanjana, Ravi (Biology, Collegium V Honors Student), capstone project, 2019-2020  
 Navya Peddireddy (Healthcare Studies, Collegium V Honors Student), capstone project, 2019-2020  
 Alizay Rizvi (Healthcare Studies), 2018-2019  
 Brooke Olson (Neuroscience), 2018-2019  
 Aishwarya Vemula (Biology), 2018-2019  
 Kaylee Sandling (Healthcare Studies), 2018-2019  
 Quang Le (Biology/Computer Science, Eugene McDermott Scholar, 2017 Undergraduate Research Scholar Award under my supervision), 2017-2019  
 Shivani Sharma (UT-PACT student), capstone project, 2016-2017  
 Rajadhar Reddy (Neuroscience, Eugene McDermott Scholar), 2015-2018  
 Lauren O'Neal (Biology/Public Health, Eugene McDermott Scholar), 2015-2018

Post-doctoral advising:

Hyewon Ahn, Ph.D. Pusan National University, 2014  
 Sung Soo Byun, Ph.D. Chungbuk Research Institute, 2016-2017

Doctoral advisement/direction (as an external reviewer overseas):

Eunyoung Shim, Ph.D awarded in 2015 at Seoul National University  
 "A Study on Developing Health Demographic Information using Smartphone Sensor Data"

Doosun Kim, Ph.D awarded in 2012 at Chungbuk National University  
 "Comparative Analysis on Organizational Culture of Public Organization for Improving the Organizational Competence"

Yoocho Kim, Ph.D awarded in 2011 at Chungbuk National University  
 "Inter-organizational Disaster Response System for Local Emergency Medical Service in Korea: The Partnership Theory and Disaster Management Communities"

Classroom teaching:**The University of Texas at Dallas, Richardson, TX (2013-2023: average student rating 4.8/5.0)**

2025, Spring, SOC 4385 (Collegium V course), Global Health and Society  
 2025, Spring, PPPE 6321, Economics for Public Policy  
 2024, Fall, EPPS 7313, Descriptive and Inferential Statistics  
 2024, Fall, SOC 4385 (Collegium V course), Global Health and Society  
 2024, Fall, OPRE 6301 (EMBA course), Statistics and Data Analysis  
 2024, Summer, OPRE 6301 (EMBA course), Statistics and Data Analysis  
 2024, Spring, SOC 4385 (Collegium V course), Global Health and Society  
 2024, Spring, PPPE 6321, Economics for Public Policy  
 2023, Fall, EPPS 7313, Descriptive and Inferential Statistics  
 2023, Fall, SOC 4385 (Collegium V course), Global Health and Society  
 2023, Fall, OPRE 6301 (EMBA course), Statistics and Data Analysis  
 2023, Spring, SOC 4385 (Collegium V course), Global Health and Society  
 2023, Spring, PPPE 6321, Economics for Public Policy  
 2022, Fall, EPPS 7313, Descriptive and Inferential Statistics  
 2022, Fall, SOC 4385 (Collegium V course), Global Health and Society  
 2022, Fall, OPRE 6301 (EMBA course), Statistics and Data Analysis  
 2022, Fall, GEOG 3357, Spatial Dimension of Health and Disease  
 2022, Summer, OPRE 6301 (EMBA course), Statistics and Data Analysis  
 2022, Spring, SOC 4385 (Collegium V course), Global Health and Society  
 2022, Spring, PPPE 6321, Economics for Public Policy  
 2021, Fall, EPPS 7313, Descriptive and Inferential Statistics  
 2021, Fall, SOC 4385 (Collegium V course), Global Health and Society  
 2021, Fall, OPRE 6301 (EMBA course), Statistics and Data Analysis  
 2021, Spring, SOC 4385 (Collegium V course), Global Health and Society  
 2021, Spring, PPPE 6321, Economics for Public Policy  
 2020, Fall, OPRE 6301 (EMBA course), Statistics and Data Analysis  
 2020, Fall, IPEC/GISC 4384, Health and Environmental Policy/GIS: A Global Perspective  
 2020, Fall, EPPS 7313, Descriptive and Inferential Statistics  
 2020, Fall, SOC 4385 (Collegium V course), Global Health and Society  
 2020, Summer, OPRE 6301 (EMBA course), Statistics and Data Analysis  
 2020, Spring, SOC 4385 / IPEC 4396, Global Health and Society  
 2020, Spring, SOC 4385 (Collegium V course), Global Health and Society  
 2020, Spring, PPPE 6321, Economics for Public Policy  
 2019, Fall, OPRE 6301 (EMBA course), Statistics and Data Analysis  
 2019, Spring, EPPS 2302, Methods of Quantitative Analysis in the Social and Policy Sciences  
 2019, Spring, SOC 4385 (Collegium V course), Health and Illness in Global and Cross-national Perspective  
 2019, Spring, PPPE 6321, Economics for Public Policy  
 2018, Fall, OPRE 6301 (EMBA course), Statistics and Data Analysis  
 2018, Fall, PPPE/GISC 6334, Workshop in Environmental and Health GIS and Policy  
 2018, Fall, EPPS 7313, Descriptive and Inferential Statistics  
 2018, Summer, OPRE 6301 (EMBA course), Statistics and Data Analysis  
 2018, Spring, IPEC/GISC 4310, Environmental and Health Policy/GIS in East Asia  
 2018, Spring, PPPE 6321, Economics for Public Policy  
 2017, Fall, OPRE 6301 (EMBA course), Quantitative Introduction to Risk and Uncertainty in Business  
 2017, Fall, IPEC/GISC 4384, Health and Environmental Policy/GIS: A Global Perspective

2017, Fall, EPPS 7313, Descriptive and Inferential Statistics  
 2017, Spring, EPPS 2302, Methods of Quantitative Analysis in the Social and Policy Sciences  
 2017, Spring, BIOL 1V00 (UT-PACT course), Global Health  
 2017, Spring, SOC 4385 (Collegium V course), Health and Illness in Global and Cross-national Perspective  
 2017, Spring, PPPE 6321, Economics for Public Policy  
 2016, Fall, OPRE 6301 (EMBA course), Quantitative Introduction to Risk and Uncertainty in Business  
 2016, Fall, PPPE/GISC 6334, Workshop in Environmental and Health GIS and Policy  
 2016, Fall, EPPS 7313, Descriptive and Inferential Statistics  
 2016, Summer, OPRE 6301 (EMBA course), Quantitative Introduction to Risk and Uncertainty in Business  
 2016, Spring, SOC 4385 (Collegium V course), Health and Illness in Global and Cross-national Perspective  
 2016, Spring, PPPE 6321, Economics for Public Policy  
 2015, Fall, IPEC/GISC 4384, Health and Environmental Policy/GIS: A Global Perspective  
 2015, Fall, EPPS 7313, Descriptive and Inferential Statistics  
 2015, Spring, BIOL 1V00 (UT-PACT course), Global Health  
 2015, Spring, PPPE 6321, Economics for Public Policy  
 2014, Fall, PPPE/GISC 6334, Workshop in Environmental and Health GIS and Policy  
 2014, Fall, EPPS 7313, Descriptive and Inferential Statistics  
 2014, Summer, EPPS 6313, Introduction to Quantitative Methods  
 2014, Spring, POEC 6321, Economics for Public Policy  
 2013, Fall, EPPS 7313, Descriptive and Inferential Statistics

**North Carolina Central University, Durham, NC (2008-2013: average student rating 4.7/5.0)**

PADG 5360, Economics for Public Policy Analysis  
 PADG 5600, Quantitative Analysis and Program Evaluation  
 PADG 5610, Research Methods for Public Administration  
 PADG 5640, Independent Study on Health Policy and Emergency Management

**Service:**

Administrative work with professional societies and organizations:

2025~present

Editorial Board Member, *Journal of Environmental Health Sciences*

2023

Reviewer, Special Emphasis Panel on Mobile Health Technology and Outcomes in Low and Middle Income Countries, Clinical Care and Health Interventions Review Branch (CCHI), NIH Center for Scientific Review

2023~present

Advisory Board Member and Scholarship Committee Chair, DK Foundation, Dallas, TX

2023~present

Double ESG Advisory Committee Member, Korean Institute of Criminology and Justice, Seoul, Korea

2023~2025

Chairperson, International Affairs Committee, The Korean Association for Policy Studies

2022~present

Vice President, Korean Association of Disastronomy

2021~2024

Member, National Election Commission Overseas Voting, Republic of Korea

2024

Chairperson, External Cooperation Committee, The Korean Association of Governance Studies

2020~2022

Council Member, Global Leadership Council, American Society for Public Administration

2020~2022

Chair, The ASPA Section on Korean Public Administration, American Society for Public Administration

2020~2022

Guest Editor, *Global Environmental Health and Safety*, Special Issue of *Sustainability*

2019~2020

Chairperson-Elect, The ASPA Section on Korean Public Administration, American Society for Public Administration

2019~2020

Vice President, Korean Society for Public Health, American Public Health Association

2019~present

Vice President, Korean National Society for Crisis and Emergency Management

2019~present

Associate Editor, *Frontiers in Public Health (Public Health Policy Section)*

2018~present

Academic Editor, *PLOS ONE*

2023~2024

Guest Editor, *Healthcare*

2019~2021

Associate Editor, *BMC Public Health (Biostatistics and Method Section)*

2014~present

Editorial Board Member, *International Review of Public Administration*

2017~present

Editorial Board Member, *Journal of the Korean Regional Science Association*

2016~present

Editorial Board Member, *Journal of Local Governmental Studies*

2015~present

Editorial Board Member, *Journal of Governmental Studies*



2020

Guest Editor, *Mathematical Problems in Engineering*

2013~2019

Co-Editor-in-Chief, *Journal of Safety and Crisis Management*

2017

Guest Editor, *PLOS ONE*

2015~2016

Editorial Board Member, *Modern Society and Public Administration*

2014~2015

Editorial Board Member, *The Journal of Cultural Policy*

2010~2015

Editorial Board Member, *Public Policy Review*

2017~2019

Advisory Board Member, National Police Agency of Korea

2014~2018

Chairperson, International Cooperation Committee, The Korea Policy Forum

2011~2018

Chairperson, International Affairs Committee, International Society for Crisis and Emergency Management

2014~2018

Junior Asian Scholar Award Committee Member, American Society for Public Administration

2013~2018

Operating Board Member, Korean Association for Policy Studies

2017

Operating Board Member, Korean Association for Public Administration

2015~2016

Member of Special Board on Social Equity, Korean Association for Public Administration

2014~2015

International Board Member, Korean Association for Public Administration

2014~2016

International Board Member, Korean Police Studies Association

2012~2013

Chairperson, Social Science Committee, Korean-American Scientists and Engineers Association, NC Chapter

*Refereeing as an external reviewer:*

2024

*Journal of Exposure Science and Environmental Epidemiology*  
*Reviews on Environmental Health*  
*Journal of Sustainability Research*  
*Journal of Safety and Crisis Management*  
*Crisisonomy*

2023

Letter writer for a promotion case at John Jay College of New York  
*International Journal of Criminal Justice*  
*Journal of Safety and Crisis Management*  
*Journal of Medical Internet Research*  
*Crisisonomy*

2022

University of Tennessee at Chattanooga Center of Excellence in Applied Computational Science & Engineering  
Grant Competition  
*Journal of Policy Studies*  
*Journal of Safety and Crisis Management*  
Letter writer for a tenure case at Indiana University Northwest  
Letter writer for a promotion case at Texas Tech University  
Letter writer for a tenure case at Colorado School of Public Health  
Letter writer for a promotion case at University of Nebraska at Lincoln

2021

*American Journal of Public Health*  
*Public Performance & Management Review*  
*Environmental Research*  
*Crisisonomy*  
*Journal of Safety and Crisis Management*  
*Journal of the Korean Regional Science Association*  
Letter writer for a tenure case at Idaho State University

2020

*American Journal of Public Health*  
*American Review of Public Administration*  
*Socio-Economic Planning Sciences*  
*BMC Public Health*  
*BMJ Open*  
*Journal of Environmental Management*  
*Atmosphere*  
*IEEE Access*  
*International Journal of Geo-Information*  
*Environment International*  
*Annals of GIS*  
*Electronics*  
*Collaborative Research Grant Competition by ConTex*

2019

Book chapters for Springer: *Global Encyclopedia of Public Administration, Public Policy and Governance*  
*International Journal of Environmental Research and Public Health*  
*BMJ Open*  
*Crisisonomy*  
*International Review of Administrative Sciences*  
*African Social Science Review*  
*Spatial and Spatio-temporal Epidemiology*  
*BMC Public Health*  
*PLOS ONE*

2018

*International Journal of Environmental Research and Public Health*  
*Papers in Regional Science*  
*BMJ Global Health*  
*Crisisonomy*  
*Insects*  
Book chapter for Sage: *A Guide to R for Social and Behavioral Sciences.*

2017

*Geospatial Health*  
*American Review of Public Administration*  
*International Journal of Environmental Research and Public Health*  
*PLOS ONE*  
*Review of Public Personnel Administration*  
*Journal of Health, Population and Nutrition*  
*African Social Science Review*  
*Crisisonomy*  
*Applied Spatial Analysis and Policy*  
Book Proposal for Springer: *Geospatial Technologies for Urban Health*

2016

*Journal of Biomedical Sciences*  
*American Review of Public Administration*  
*Public Personnel Management*  
*Annals of the American Association of Geographers*  
*Review of Public Personnel Administration*  
*International Journal of Environmental Research and Public Health*

2015

*Energy Policy*  
*American Journal of Tropical Medicine*  
*Public Policy Review*  
*African Social Science Review*  
*American Review of Public Administration*  
*International Journal of Critical Care and Emergency Medicine*

2014

Book Proposal for Routledge Books: *Global Health*  
*Geographic Analysis*  
*International Journal of Environmental Research and Public Health*

*The World Scientific Journal*  
*Public Policy Review*  
*The Exley: UTD Undergraduate Research Journal*  
*Journal of Cultural Policy*  
*International Review of Public Administration*

2013

*Asia-Pacific Journal of Public Health*  
*Seoul Journal of Economics*  
*Science of the Total Environment*  
*Global Health Perspectives*  
*International Journal of Hygiene and Environmental Health*  
*Archives of Korean Crisis and Emergency Management*  
*International Review of Public Administration*

2008 ~ 2012

*International Journal of Environmental Research and Public Health*  
*Asia-Pacific Journal of Public Health*  
*Science of the Total Environment*  
*Global Health Perspectives*  
*Environmental Science & Technology*  
*International Journal of Hygiene and Environmental Health*  
*Archives of Korean Crisis and Emergency Management*  
*International Review of Public Administration*  
*International Journal of Public Administration*  
*Public Policy Review*  
Abstracts for International Conference of Global Health

*Departmental, college, university committees:*

**University of Texas at Dallas**

*University-level Services*

2022~2025

Member, Committee on Effective Teaching

2022~2023

Member, IDEA (Inclusion, Diversity, Equity and Access) Committee

2024~present

Faculty Supervisor, CERESAV (Center for Rehabilitation of Survivors of Acid and Burns Violence), UTD Chapter

2023~present

Faculty Supervisor, Korean Student Association (KSA) at the University of Texas at Dallas

Fall 2022

Internal Reviewer, Program Review for MS in Art History

2021~2022

Chair, Information Technology, Planning, and Policy Committee

2020~2021

Vice Chair, Information Technology, Planning, and Policy Committee

2021~present

Council Member, Blackstone LaunchPad Stewardship Council

2014~present

Member, International Education Fund Scholarship (IEFS) Review Committee

2015~present

Outside Chair of the Dissertation Committee: Lei Gu (Electrical Engineering), David Quintero (Mechanical Engineering), Jonghae Youn (Chemistry), Romeo Abraham (Public and Nonprofit Management), Luis Fernando Colunga Ramos (Economics)

2016~2018

Faculty Senate

2017~2018

Vice Chair, Academic Program Review Committee

2014~2017

Member, Academic Program Review Committee

2015~2018

Faculty Supervisor, Mahabodh Foundation, UTD Chapter

2014~2018

Faculty Advisor, Liberty in North Korea (LiNK), UTD Chapter

2015~2016

UT-PACT Interviewer

August 18, 2014

Faculty Ambassador for EPPS

*School-level Services*

2024~present

Senior Associate Dean of Graduate Education

2021~2024

Associate Dean of Graduate Education

2024

Search Committee Member, Professor for Sociology

2024

Search Committee Chair, Assistant Professor for Global Health Policy

2024

Search Committee Chair, Assistant Professor for GIS and Sustainability

2024

Search Committee Member, Professor for Sociology and Public Health

2024~2025

Member, Ad Hoc Committee for the Tenure Review of Dr. Yeungjeom Lee

2020~present

Char, EPPS Method Committee

2020~present

Director, Social Data Analytics and Research (SDAR)

2023

Search Committee Member, Assistant Professor for Public Health and Sociology

Fall 2023

Member, Ad Hoc Committee for the Mid-Probationary Review of Dr. Andrew Krajewski

2021

Search Committee Member, Assistant Professor of Instruction - Economics

2020~2021

Search Committee Chair, Assistant Professor for Global Health Policy

2020~2021

Member, Ad Hoc Committee for the Tenure Review of Dr. Vito D'Orazio

2020~2021

Member, Graduate Recruitment Working Group

2019~present

Member, Admission Review Committee for MS Degree in Social Data Analytics and Research

2015~present

Program Advisor, Graduate Certificate in Economic and Demographic Data Analysis

2013~present

Program Advisor, Graduate Certificate in Program Evaluation

2019~2021

Undergraduate EPPS Course Advisory Task Force

2019~2021

EPPS Mentor for Teaching Assistants

2015~present

Principal Investigator & Managing Director, Geospatial Health Research Group

2019~2020

Member, Ad Hoc Committee for the Tenure Review of Dr. Anthony Cummings

2015~2016

Member, EPPS Scholarship Evaluation Committee

Fall 2015

Member, Ad Hoc Committee for the Mid-Probationary Review of Dr. Jonas Bunte

*Program-level Services*

2013~present

Program Committee Member, Public Policy and Political Economy Program

2013~present

Ph.D Methods Qualifying Exam (MQE) Committee, Public Policy and Political Economy Program

2014~2016

Director of Graduate Studies and Associate Program Head, Public Policy and Political Economy Program,  
School of Economic, Political and Policy Sciences

November 18, 2015

GIS Day Poster Competition Judge

2013~2014

GIS and Statistics Curriculum Committee Member, Geospatial Science Program

**North Carolina Central University**

Parliamentarian, Faculty Senate, 2011-2012

Chairperson, Electronic Journal Committee, College of Behavioral and Social Sciences, 2012-2013

Member of Advisory Board, Office of International Affairs, 2011-2013

Senator, Faculty Senate, 2010-2013

Member, Faculty Research and Professional Development Committee, 2010-2011

Faculty Editor, Scholarly Online Academic Review of Public Administration, 2010-2012

Member, Website Committee, College of Behavioral and Social Sciences, 2009-2011

NASPAA (Network of Schools of Public Policy, Affairs & Administration) Accreditation Committee, 2008-9