

DOHYO JEONG

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RESEARCH INTERESTS

Research Topic: Public Resources, Public Health, Finance, Public Policy Analysis,
Methodology Topic: Spatial-Temporal Causal Inference, Bayesian Inference, Machine Learning, GIS

EDUCATION

Aug. 2020 –	University of Texas at Dallas, Texas, USA Ph.D. Candidate on Public Policy and Political Economy
Aug. 2023 –	University of Texas at Dallas, Texas, USA Master of Geospatial Information Sciences
Aug. 2023 –	University of Texas at Dallas, Texas, USA Master of Science in Social Data Analytics and Research
Mar. 2017 – Feb. 2019	SUNGKYUNKWAN UNIVERSITY, SEOUL, KOREA Master of Public Administration (GPA: 4.45/4.5) <i>Thesis Title: Factor Affecting the Distribution of National Subsidies in Korean Local Governments: Focusing on Rhodes' Power-Dependence Model (Advisor: Professor SUHO BAE)</i>
Mar. 2011 – Feb. 2017	SEOKYEONG UNIVERSITY, SEOUL, KOREA Bachelor of Arts in Philosophy & Public Administration (GPA: 4.34/4.5)

PUBLICATIONS

[4] Hong, S., **DOHYO JEONG**, & Kim, P. (2024). Have offender demographics changed since the COVID-19 Pandemic? Evidence from money mules in South Korea. *Journal of Criminal Justice*, 91, 102156. <https://doi.org/10.1016/j.jcrimjus.2024.102156> (IF: 5.5)

[3] **DOHYO JEONG.**, Kim, D., Mohiuddin, H., Kang, S., & Kim, S. (2023). Regional Disparity in the Educational Impact of COVID-19: A Spatial Difference-in-Difference Approach. *Sustainability*, 15(16), 12514. <https://doi.org/10.3390/su151612514> (IF: 3.9)

[2] Odusola, A. O., **DOHYO JEONG**, Malolan, C., Kim, D., Venkatraman, C., Kola-Korolo, O., ... & Nwariaku, F. E. (2023). Spatial and temporal analysis of road traffic crashes and ambulance responses in Lagos state, Nigeria. *BMC public health*, 23(1), 2273. <https://doi.org/10.1186/s12889-023-16996-8> (IF: 4.7)

[1] Ogbudebe Chidubem, **DOHYO JEONG**, OdumeBethrand (2023). Editorial Decision/Comments on "Identifying Hotspots of Tuberculosis in Nigeria using Early Warning Outbreak Recognition System:

Publications in Korea

[6] CHANG-JIN KIM, **DOHYO JEONG**, (2022). Factors Influencing Public Officials Innovative Behavior for Platform Governance. *The Journal of Korea Policy Research*. Vol.22 No.3: 141-171.

[5] **DOHYO JEONG**, Sangho Moon, SUHO BAE. (2019). Factors Affecting the Distribution of National Subsidies in Korean Local Governments: Focusing on Rhodes' Power-Dependence Model. *The Korea Journal of Policy Analysis and Management*, Vol.29 No3: 21-53.

[4] **DOHYO JEONG**, CHANG-JIN KIM, SUHO BAE. (2019). A Study on Determinants of Tax Attitude: Focusing on Slippery Slope Framework, *Public Policy Review*, Vol.33 No.3: 43-72.

[3] CHANG-JIN KIM, **DOHYO JEONG**, SUNG-WOO HONG. (2019). The Effects of Decentralization Perception on the Recognition of Intergovernmental Relationship: Focusing on Mediating Effect of Dispute Settlement System - *Journal of Local Government Studies*. Vol.31 No.3: 1-35.

[2] **DOHYO JEONG**, YOUNGKYU LEE, SEONGYOUNG JEONG. (2018). An Analysis of the Effect of the Tax Rate on the Financial Efficiency of Local Governments. *The Korea Journal of Local Government Studies*, Vol.22 No.3: 415-443.

[1] Dae-yong Hyun, **DOHYO JEONG**, (2017). Analysis of differences in perception of administrative values among civil servants and general civil servants: Focused on Suwon City Government Officials. *Suwon Research Institute*. No. 12: 119-141.

Under Review

[3] **DOHYO JEONG**. (2024). Medical Resource Optimization Model Analysis for Vulnerable Areas of Emergency Medical Service Using Spatial Machine Learning: A Case Study on Korea. (*During peer reviewing*).

[2] **DOHYO JEONG**. (2024). The Patterns of COVID-19 Therapeutics Supply and Demand in Texas: A Spatial-Temporal INLA Approach. (*During peer reviewing*).

[1] **DOHYO JEONG**, Jessi Hanson-DeFusco, and Dohyeong Kim. (2022). Digital Mass Hysteria during Pandemics: A Case Study of Twitter Communication Patterns in the US during COVID-19 Period. (*During peer reviewing*).

CONFERENCE PRESENTATION

[6] **DOHYO JEONG**. (2023). Differential Side Effects of COVID-19 Response Policies on the U.S. Labor Market: A Spatial-Temporal Analysis. APPAM (Association for Public Policy Analysis and Management) 2023 Annual Conference. Nov. 2023.

[5] **DOHYO JEONG**. (2023). The Patterns of COVID-19 Therapeutics Supply and Demand in Texas: A Spatial-Temporal INLA Approach. APHA (American Public Health Association) 2023 Annual Conference. Nov. 2023.

[4] **DOHYO JEONG**. (2023). Regional disparity in the uninsurance rate impact of COVID-19: a spatial machine learning approach. ASPA (American Society for Public Administration) 2023 Annual Conference. 21. March. 2023.

[3] **DOHYO JEONG**. (2023). Digital Mass Hysteria? during Pandemics: A Case Study of Twitter Communication Patterns in the US during COVID-19 Period. Conference On Public Process Research. 12. Jan. 2023.

[2] **DOHYO JEONG**. (2022). A comparison of the spread trend prediction model according to the government's COVID-19 response policy change and its influence, 2022 Korean Public Administration International Conference. Korea. 22 June. 2022.

[1] **DOHYO JEONG**. (2021). The effect of the government's vaccination management plan on the change of sentiment toward vaccines, 2021 Global Disastronomy Workshop. Texas. USA. 17 Dec. 2021.

Presentation in Korea

[5] **DOHYO JEONG**, Chang-jin Kim. SUHO BAE. (2019). A Study on the Factors Affecting the Taxation Attitude of General Taxpayers. Korean Association for Local Government Studies Winter Conference. Seoul. KOREA. 14 Feb. 2019

[4] Chang-jin Kim. **DOHYO JEONG**, SUHO BAE. (2019). The Mediation Effect of Dispute Settlement System in the Perception of Regional Dispersion and Intergovernmental Relations. Korean Association for Local Government Studies Winter Conference. Seoul. KOREA. 14 Feb. 2019.

[3] **DOHYO JEONG**, YOUNGKYU LEE, SUHO BAE. (2018) An Analysis of the Effect of the Tax Rate on the Financial Efficiency of Local Governments. Korea Association of Local Administration Summer Joint Conference Chungcheong-do. KOREA. 20 Jul. 2018

[2] **DOHYO JEONG**. (2017). The Effects of Tax Recognition on the pros and cons of Welfare Policy. Seoul Association of Public Administration Fall Conference. Seoul. KOREA. 3 Nov. 2017

[1] Dae-yong Hyun, **DOHYO JEONG**. (2017). A Study on the Policy Diffusion of Local Government in Korea: focusing on Resident Participation Budget System. Korea Association of Local Administration Summer Joint Conference. Gyeonggi-do. KOREA. 18 Aug. 2017

WORK EXPERIENCE

Jan. 2020 – May. 2020	Gyeonggi Research Institute, Korea <i>Researcher, Economic and Social Research Lab</i> Responsibilities 1. Local industry geographic distribution data collection and analysis. 2. Establishment and analysis of strategic plans for regional strategic industries. 3. Industry policy evaluation and report.
Apr. 2019 – JAN. 2020	Sustainable Urban Development Institute (SUDI) SUNGKYUNKWAN UNIVERSITY, SEOUL, KOREA <i>Researcher, the Center for Urban Policy Studies</i> <ul style="list-style-type: none"> • Responsibilities: 1. Diagnosis of problems of local autonomy and decentralization, and development of improvement measures <ul style="list-style-type: none"> • Assessment of local government's fiscal soundness and efficiency 2. Policy development for sustainable local government and rational creation of finance <ul style="list-style-type: none"> • Study on applicability of flexible taxes, tax competition, evaluation of local fiscal reconciliation system, and allocation of government subsidies 3. Database city information and utilize that information for city research and policy development data <ul style="list-style-type: none"> • Research and application of statistics package such as STATA, SPSS, AMOS, and SAS

RESEARCH EXPERIENCE

Feb. 2023 - Dec. 2023	<p>Medical Resource Optimization Model Analysis for Vulnerable Areas of Emergency Medical Service Using Machine Learning: A Case Study on Korea.</p> <p>- Research, University of Texas at Dallas</p> <ul style="list-style-type: none"> Traffic accident case data collection and mapping. Demand-supply imbalance analysis for medical resources. Optimization model calculation through machine learning. Policy proposals and reports for optimizing medical resources.
December. 2021 – June. 2022	<p>Identifying Hotspots of Tuberculosis in Nigeria using EWORS: Implications for Active Case Finding and Intervention.</p> <p>- Research Assistant, University of Texas at Dallas</p> <ul style="list-style-type: none"> Combining and managing Nigerian tuberculosis data Disease distribution mapping and pattern analysis EWORS system effectiveness analysis and evaluation System effect mapping and geospatial analysis
Aug. 2021 – Dec. 2022	<p>Emergency Medical Services (EMS) Policy Implementation Evaluation and Efficiency Analysis in Nigeria</p> <p>- Research Assistant, University of Texas at Dallas</p> <ul style="list-style-type: none"> Nigeria traffic accident information mapping and data management Ambulance Reaction Time Patterns and Statistical Analysis Analysis and evaluation of traffic policy effects
Mar. 2017 – Feb. 2019	<p>Pursuing an Empathic Government Through Convergent Leadership Development Program</p> <p>- Research Assistant, SUNGKYUNKWAN UNIVERSITY/NATIONAL RESEARCH FOUNDATION OF KOREA</p> <ul style="list-style-type: none"> Party of support: National Research Foundation of Korea Responsibilities: <ol style="list-style-type: none"> Diagnosis and development of problems in interdisciplinary convergence research <ul style="list-style-type: none"> Compare the concept of 'Publicity' in the West and the East, and study the definition of publicity in Korean Public Administration Compare the bureaucracy theory of the Oriental administration Philosopher Han Feizi and the bureaucracy theory of Max Weber in the West, and derive various implications for application to modern bureaucracy Analysis and evaluation of the influence of government trust <p>Study the influence of tax recognition and government trust on the welfare policy attitude</p>

TEACHING

2023 Fall	<p>EPPS 2302. Methods of Quantitative Analysis in the Social and Policy Sciences (Fall, 2023)</p> <ul style="list-style-type: none"> This course introduces basic concepts and methods of statistical analysis used in different fields of social and policy science research to better understand human relationships and the impacts of government action on them. Topics include data description, using probability to assess the reasonableness of claims about the world
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	<p>based on sample data, exploring cause-effect interactions through regression models, and application of software to ease visualization and calculation. Students completing this course will be good consumers of statistical information and have a solid foundation for pursuing further study of quantitative analysis.</p> <ul style="list-style-type: none"> • Syllabus • Instructor Evaluation: 4.75/5
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TEACHING ASSISTANTS

2024 Spring	EPPS 7316. Regression and Multivariate Analysis Instructor: Dr. Patrick Brandt
2023 Spring	EPPS 7316. Regression and Multivariate Analysis Instructor: Dr. Patrick Brandt
2022 Fall	EPPS 7313. Descriptive and Inferential Statistics Instructor: Dr. Dohyeong Kim
2022 Spring	PPPE 6321. Economics for Public Policy Instructor: Dr. Dohyeong Kim

AWARDS, SCHOLARSHIPS AND HONORS

Spring 2023	Awarded Government and Political Science Fellowship in University of Texas at Dallas
Spring, 2023	Nominated for President's Teaching Excellence Awards in University of Texas at Dallas
Sep. 2022	Awards 3rd prize in the treatise contest by the KOREA INSTITUTE OF PUBLIC FINANCE
Feb. 2019	Awards for Excellent Records, SUNGKYUNKWAN UNIVERSITY
Nov. 2018	Awards The 3 rd Report for Korea National Tax Administration Policy Proposal Contest Participation Prize, National Tax Service
Fall 2018	Academic Excellence Scholarship, SUNGKYUNWAN UNIVERSITY
Spring 2018	Encouragement of Research Scholarship, SUNGKYUNWAN UNIVERSITY
Fall 2017	Academic Excellence Scholarship, SUNGKYUNWAN UNIVERSITY
Spring 2017	Encouragement of Research Scholarship, SUNGKYUNWAN UNIVERSITY
Fall 2016	An Excellent-grade Scholarship, SEOKYEONG UNIVERSITY
Spring 2016	An Excellent-grade Scholarship, SEOKYEONG UNIVERSITY
Fall 2015	Grade(extra) Scholarship, SEOKYEONG UNIVERSITY
Spring 2015	An Excellent-grade Scholarship, SEOKYEONG UNIVERSITY Recommendation of Department Scholarship, SEOKYEONG UNIVERSITY
Fall 2014	Special Scholarship, SEOKYEONG UNIVERSITY
Fall 2011	An Excellent-grade Scholarship, SEOKYEONG UNIVERSITY

VOLUNTARY/ EXTRACURRICULAR ACTIVITIES

Aug. 2016 – Aug. 2016	Educators Without Borders , Seoul, Korea <i>Participant</i> <ul style="list-style-type: none">Completion of the curriculum on cooperation in international education development
Mar. 2015 – Aug. 2015	Ministry of Foreign Affairs, Seoul, Korea <i>Supporter</i> <ul style="list-style-type: none">Friends of Ministry of Foreign Affairs (MOFA): Policy promotion and write articles
Feb. 2015 – Feb. 2015	Seokyeong University, Seoul, Korea <i>A member of student monitoring team</i> <ul style="list-style-type: none">Analysis and Evaluation of School Curriculum and Educational Conditions

CERTIFICATES & SKILLS

Computer	Word-processor credentials Computer Specialist in Spreadsheet & Database
Others	<ul style="list-style-type: none">ArcGIS proQGISR statistical packageSTATA statistical packagePython statistical packageSPSS statistical packageAMOS statistical packageSAS statistical packageDEA statistical packageHLM statistical package

ADDITIONAL REMARKS

I hereby certify that above detailed statements are all true and correct.



Signed by, **DOHYO JEONG**