

SANGWON JU

Graduate School of Public Administration, Seoul National University

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Research Interests

- Policy analysis and evaluation: specifically societal impacts of information systems
- Public sector management information systems
- Organizational decision-making; specifically human-machine cooperation & organizational behavior
- Evidence-based public policy and management
- Data analytics & Computational Social Science

Academic Background

Seoul National University

2021 - 2023

Graduate School of Public Administration

Seoul, South Korea

- M.P.A. in Public Policy
- Evidence-Based Research Lab (Advisor: Dr. ByeongJo Kim)
- Overall GPA: 4.1/4.3
- Thesis: To be written

Yonsei University

2015 - 2021

College of Social Science

Seoul, South Korea

- B.A. in Public Policy and Management (GPA: 4.17/4.3)
- B.A. in Business Administration (GPA: 3.94/4.3)
- Minor in Applied Statistics (GPA: 4.1/4.3)
- Overall GPA: 3.97/4.3
- Thesis: Flexible work arrangement and perceived organizational satisfaction: comparing time-based and location-based public sector FWA programs (Honors Program in Social Science)

Experience

Korea Research Institute for Local Administration

2022

Research Assistant, Office of Local Administration and Innovation

Wonju, South Korea

- Participated on ‘The organizational analysis and diagnosis of local governments (2022)’
- Assisted building a framework of evidence-based job analysis and diagnosis for local government organization management.
- Analyzed the organizational data to quantify the actual workload per job, appraise the current organizational structure of municipal, and derive direction of improvement.
- Participated on weekly meetings with municipal practitioners to validate relevance and supplement the perspectives of street-level bureaucrats.

Korean Augmentation to the United States Army (ROK Army)

2016 - 2017

Administrative Assistant / Translator (Sergeant)

Seoul, South Korea

- Mandatory Military Service in United States Forces Korea Transformation & Restationing
- Served as non-commissioned officer assisting Major General James T. Walton, Director of Transformation and Restationing.

Publication

Manuscripts in preparation

Ju, S. & Lee, J., Kim, B.J. (2022), Evidence-Based Policy in Asian Countries: Applying Model of Evidence-Based Practice Implementation for Maturation Stage Analysis [in Korean], *Korean Public Administration Review*, Under Review

Academic Conference

Conference Presentations

Ju, S. & Lee, J. (2022), Evidence-Based Policy in Asian Countries: Applying Model of Evidence-Based Practice Implementation for Maturation Stage Analysis [in Korean, Poster Session], *2022 Korean Public Administration Summer Conference and Annual KAPA International Conference, Yeosu, Korea, June 2022*.

Seminar Presentations

Seminars on Evidence-Based Public Policy and Management <i>Evidence-Based Research Group, GSPA, SNU</i>	2021 - 2022
• Evidence-Based Policy: Current issues	Aug 2022
• Evidence-Based Management and Measurement Issue	Feb 2022
• Evidence-Based Management and Organizational Behavior	Nov 2021

Teaching Experience

Quantitative Analysis I (Instructor: Prof. Chongmin Na) <i>Teaching Assistant, Graduate School of Public Administration, SNU</i>	Spring/Fall, 2022
• Supervised lab exercises of statistical packages	
• Evaluated mid-term and final examination	
Research Methods (Instructor: Prof. ByeongJo Kim) <i>Teaching Assistant, Graduate School of Public Administration, SNU</i>	Fall, 2022
• Supervised research proposal paper development	
• Evaluated the topic-related journal article summary presentations	

Award and Scholarship

Awards

Yonsei Certificate For Excellence: Understanding and Using AI Project: <i>Disaster Management and AI - CNN Algorithms on Satellite Images</i>	Aug 2021
Certificate of Appreciation (CA) from US 8th Army	Oct 2017

Scholarship

SNU Subsequent Generation Research Courses TA Scholarship (\$ 5,000 equivalent)	Fall 2022
SNU Subsequent Generation Research Courses TA Scholarship (\$ 5,000 equivalent)	Spring 2022
SNU GSI(Graduate Student Instructor) Scholarship (\$ 4,500 equivalent)	Fall 2021
Yonsei Merit Scholarship (High Honor) (\$ 1,200 equivalent)	Spring 2021

Skills

Languages	Korean (Native), English (Fluent)
Programming	<ul style="list-style-type: none">• R (Tidyverse, Tidymodels, Ggplot2, Quarto Markdown)• Python (Numpy, Pandas, Scikit-learn, Matplotlib, Jupyter)• STATA, SPSS, SQL
Methodological Interests	<ul style="list-style-type: none">• Applied Econometrics (DID, PSM, RD, Synthetic Control)• Machine Learning (RNN, CNN, RF, SGboost, SVM etc.)• Text Mining

Data Analytics Projects

Analysis of the FWA in public sector organizations using data mining techniques	Dec 2021
<i>Final Report of 'Data Analytics for Public Data' Course [in Korean]</i>	
<ul style="list-style-type: none">• Code / Slide• Extracted frame regarding public-sector Flexible Work Arrangements using text-mining techniques• Visualized the trends of Flexible Work Arrangements within both private and public organizations• Identified significant factors affecting adoption of Flexible Work Arrangements using machine learning algorithms	
Loan Guarantee Default Prediction: US SBA Loan Guarantee Data (1987-2014)	Aug 2020
<i>Final Report of 'Introduction to Business Analytics' Course</i>	
<ul style="list-style-type: none">• Visualized the demographics of previous clients whose loan was charged off and paid in full• Identified the crucial factors that may affect prospective clients' loan status using machine learning algorithms• Compared the strengths and weaknesses of each algorithms (e.g. sgboost, random forest, support vector machine, logistic regression, neural network, etc.)	

Selected Courseworks

Public Policy and Management

Graduate	<ul style="list-style-type: none">• Studies in Policy Analysis (Philosophical Foundation and Methodologies : CBA, AHP, and Decision Analysis) (Ph.D Level, A+)• Experimental and Quasi-experimental Policy Evaluation (A+)• Evidence-Based Public Policy and Management (A)
Undergraduate	<ul style="list-style-type: none">• Honors Program in Social Science (A+)• Organizational Behavior (A+)• Strategic Policy Management (A+)

Information Systems, Statistics & Data Analytics

Graduate	<ul style="list-style-type: none">• Economics of Information Systems (Ph.D Level, A+)• Seminar on Quantitative IS Paper Writing (Ph. D. Level, ?)• Data Analysis and Visualization (Data Science Department, ?)• Machine Learning and Deep Learning 1 (Data Science Department, ?)• Studies in econometrics (Economics Department, ?)
Undergraduate	<ul style="list-style-type: none">• Management Information Systems (A+)• Mathematical Statistics I,II (A+, S)• Exploratory Data Analysis (A+)• Business Analytics, Data Mining for Business Analytics (A+, A+)• Strategic Management (A)

References

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