

Woojin Jung

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Education

- 2019 University of California, Berkeley, Ph.D., Social Welfare
Designated Emphasis: Development Engineering

Dissertation: *Combating Poverty through Aid: A Critical Analysis of Alternative Models*
Committee: Neil Gilbert (Chair), Jill D. Berrick, Alain de Janvry, Clair Brown
Award: Outstanding Dissertation Award, Society for Social Work and Research, 2020
- 2007 Harvard Kennedy School, Master in Public Policy
Concentration: Political and Economic Development
Dissertation: *Analysis of Impact Evaluation Systems for KOEXIM Bank's Bilateral Development Loans*
- 2004 Washington University in St. Louis, Master of Social Work
Concentration: Social and Economic Development
- 1998 Ewha Womans University in Seoul, Korea, Bachelor of Arts in Social Welfare
Minor: Education Psychology

Academic Appointments

- 02/2020–present Core Faculty, Rutgers Global Health Institute
- 07/2019–present Assistant Professor, School of Social Work, Rutgers University
- 2018–2019 Statistician, University of California, Berkeley
- 2011–2012 Research Fellow, Graduate School of International Studies, Ewha Womans University, Seoul, Korea
- 2010 Lecturer, Sogang University, Seoul, Korea
- 2007–2008 Data Analyst, Criminal Justice Program and Management at the Malcolm Wiener Center for Social Policy, Harvard Kennedy School, Cambridge, MA

Publications

Articles in Refereed Journals

Accepted or In Press

2026 **Jung, W.**, Kim, A. H., Sinha, A., Stoeffler, Q., Ghadimi, S., Shah, V., Garg, K., & Ammari, T. (In press). Multimodal poverty mapping and geographic transfer allocation. *Sustainable Cities and Society*.
<https://doi.org/10.1016/j.scs.2026.107248>

2026 **Jung, W.**, Kim, A. H., Hung, Y., Chear, C., Shah, V., & Ammari, T. (In press). Digital pulse of development: Leveraging social media discourse for poverty analysis. *Information Processing and Management*.
<https://doi.org/10.1016/j.ipm.2025.104579>

Published

2026 **Jung, W.**, Benotsmane, R., Stoeffler, Q., Kim, A. H., Ghadimi, S., Ntarlagiannis, D., Hosseini, M., Ammari, T., Lu, Y., & Steiner, J. Contextualized poverty targeting through multimodal spatial data and machine learning in Brazzaville, Congo. *Cities*.
<https://doi.org/10.1016/j.cities.2025.106429>

2025 **Jung, W.**, Kim, A. H., Stoeffler, Q., Goudarzi, S., Benotsmane, R., & Shah, V. Targeting urban poverty and food insecurity: A community-informed spatial analysis and machine learning approach. *Sustainable Cities and Society*, vol. 134, 106799.
<https://doi.org/10.1016/j.scs.2025.106799>

2025 **Jung, W.**, Sinha, A., Kim, A. H., Shah, V., Lu, Y., Lee, L., & Ammari, T. The last mile in remote sensing poverty prediction. *ACM Journal on Computing and Sustainable Societies*, 3(3), Article 16.
<https://doi.org/10.1145/3724422>

2025 **Jung, W.**, Ghadimi, S., Ntarlagiannis, D., & Kim, A. H. Using Artificial Intelligence/Machine Learning to evaluate the distribution of community development aid across Myanmar. *Socio-Economic Planning Sciences*, 98, 102139.
<https://doi.org/10.1016/j.seps.2024.102139>


2024 **Jung, W.**, Kim, H. A., & Chear, C. Data Science and Social Work. *Encyclopedia of Social Work*. Oxford University Press.
<https://doi.org/10.1093/acrefore/9780199975839.013.1649>

2023 Bukhari, M. H., Shad, M. Y., Nguyen, U. D. T., Treviño, J. A., **Jung, W.**, Bajwa, W. U., Gallego-Hernández, A. L., Robinson, R., Corral-Frías, N. S., Hamer, G. L., Wang, P., Annan, E., Ra, C. K., Keellings, D., & Haque, U. A Bayesian spatiotemporal approach to modelling arboviral diseases in Mexico. *Transactions of The Royal Society of Tropical Medicine and Hygiene*, 117(12), 867–874.
<https://doi.org/10.1093/trstmh/trad064>

- 2023 **Jung, W.**
Mapping community development projects: Spatial analysis in Myanmar.
World Development, 164.
<https://doi.org/10.1016/j.worlddev.2022.106124>
- 2022 **Jung, W.**
The discrepancy between two approaches to global poverty: What does it reveal?
Social Indicators Research, 162(3), 1313–1344.
<https://doi.org/10.1007/s11205-021-02866-6>
- 2020 **Jung, W.**
Two models of community-centered development in Myanmar.
World Development, 136.
<https://doi.org/10.1016/j.worlddev.2020.105081>
- 2020 **Jung, W.**
Using data science to strengthen the social safety net: Predicting risk for Medicare and Medicaid insurers.
Journal of Governmental Studies, 26(2), 29–61. [In Korean]
<https://dx.doi.org/10.19067/jgs.2020.26.2.29>
- 2020 Organista, K. C., **Jung, W.**, & Neilands, T.
A structural-environmental model of alcohol and substance-related sexual HIV risk in Latino migrant day laborers.
AIDS and Behavior, 24(11), 3176–3191.
<https://doi.org/10.1007/s10461-020-02876-4>
- 2020 Wu, C.-F., Chang, Y.-L., Rhodes, E., MUSAAD, S., & **Jung, W.**
Work-hour trajectories and associated socioeconomic characteristics among single-mother families.
Social Work Research, 44(1), 47–57.
<https://doi.org/10.1093/swr/svz029>
- 2019 Organista, K., **Jung, W.**, & Neilands, T.
Working and living conditions and psychological distress in Latino migrant day laborers.
Health Education & Behavior, 46(4), 637–647.
<https://doi.org/10.1177/1090198119831753>
- 2018 Kim, P. H., & **Jung, W.**
Ownership and planning capacity in the Asian-style development cooperation: Korean knowledge sharing program to Vietnam.
Korea Observer, 49(2), 349–368.
<https://doi.org/10.29152/KOIKS.2018.49.2.349>

Articles in Refereed Conference Proceedings

Published

- 2025 **Jung, W.**, Kim, A. H., Hung, Y., Chear, C., Shah, V., & Ammari, T.
Digital pulse of development: Generating poverty metrics from social media discourse.
In *Proceedings of the 5th ACM Conference on Equity and Access in Algorithms, Mechanisms, and Optimization (EAAMO'25)*. Association for Computing Machinery.
 <https://doi.org/10.1145/3757887.3767680>

Works in Progress

- 2025 **Jung, W.**, Hosseini, M., & Shah, V. (Working paper).
Detecting human interpretable features from satellite imagery to support poverty mapping.
- 2025 **Jung, W.**, Kim, Y., & Kang, M. A. (Working paper).
How Public and Private Interventions Shape Social Capital and Community Resilience in Tacloban, Philippines.
- 2025 **Jung, W.**, Kim, A. H., & Shah, V. (Work in progress).
Data Science in Social Work.
- 2025 **Jung, W.**, Carney, P., Shah, V., Vishnubhotla, V., & Lee, L. (Work in progress).
Poverty, environment, and canine health: A spatial One Health analysis using the Golden Retriever Lifetime Study.

Books

Edited Books

- 2011 Kharas, H., Makino, K., & **Jung, W.** (Eds.).
Catalyzing development: A new vision for aid. 305 pages.
Brookings Institute Press.
<https://www.jstor.org/stable/10.7864/j.ctt12634s>

Chapters in Books

- 2016 **Jung, W.**
Korea's development assistance in fragile states: What is at stake?
In B. M. Howe (Ed.), *Post-conflict development in East Asia* (pp. 195–220).
Routledge.
<https://doi.org/10.4324/9781315601649>
- 2015 Kim, P. H., & **Jung, W.**
Does domestic welfare reform spill into development assistance overseas? The Korean case.
In R. Hasmath (Ed.), *Inclusive growth, development and welfare policy* (pp. 44–59).
Routledge.
<https://doi.org/10.4324/9781315732626>

Textbooks

- 2016 **Jung, W.**
Poverty and development.
In Korea International Cooperation Agency (KOICA) (Ed.), *International development cooperation: Advanced level* (pp. 559–665).
Korea International Cooperation Agency (KOICA). [In Korean]

Articles in Non-refereed Journals

- 2013 Chun, S.-H. & **Jung, W.**
Delivering aid to African agriculture: New directions.
World Agriculture, 153(5), 55–80. [In Korean]
<http://repository.krei.re.kr/handle/2018.oak/20352>
- 2010 **Jung, W.**
The Korean Development Cooperation Model: From the perspective of Korean experience and comparative advantage.
Journal of International Development Cooperation, (1), 69–91. [In Korean]
<https://doi.org/10.34225/jidc.2010.1.69>
- 2010 **Jung, W.** & You-ah Chung
Cross-cutting issues: Poverty.
Journal of International Development Cooperation, (4), 120–150.
<https://doi.org/10.34225/jidc.2010.4.26>
- 2010 **Jung, W.**
Successful Asian Recipients: Case studies of Korea and Vietnam.
Journal of International Development Cooperation, (3), 120–150.
<https://doi.org/10.34225/jidc.2010.3.120>
- 2010 **Jung, W.**
The strategic partnership between Samsung Electronics and UNICEF India.
Journal of International Development Cooperation, (1), 92–124.
<https://doi.org/10.34225/jidc.2010.1.92>
- 2010 **Jung, W.**
Financial analysis and performance measurement of Oxfam America.
Journal of International Development Cooperation, (2), 108–126.
<https://doi.org/10.34225/jidc.2010.2.108>

Reviews

- 2021 **Jung, W.**
Review of the book *Becoming one: Religion, development, and environmentalism in a Japanese NGO in Myanmar*, by C. Watanabe.
Pacific Affairs, 94(4), 781–783.
<https://pacificaffairs.ubc.ca/book-reviews/becoming-one-religion-development-and-environmentalism-in-a-japanese-ngo-in-myanmar-by-chika-watanabe/>

Policy Reports

- 02/2025 Kang, M.-A., **Jung, W.**, & Kim, Y.
Study on assessing the vulnerability of climate-induced internally displaced persons (IDPs) and developing a project model to strengthen community resilience in the Philippines.
Korea International Cooperation Agency (KOICA). 215 pages.
<https://lib.koica.go.kr/search/detail/CATTOT000000049899>
- 11/2012 **Jung, W.** et al.
A systematic review of evaluation reports by Korea's ODA implementing agencies.
Office of the Prime Minister, Director-General for Development Cooperation Policy.
<https://www.prism.go.kr/homepage/asmt/popup/1101000-201200025>
- 10/2012 **Jung, W.** et al.
Development of technology inventory for ODA projects.
Ministry of Foreign Affairs, Development Cooperation Bureau.
<https://www.prism.go.kr/homepage/asmt/popup/1260000-201200048>
- 08/2012 **Jung, W.** et al.
Social protection programs for the urban poor in the Global South.
Korea International Cooperation Agency.
<https://lib.koica.go.kr/search/detail/CATTOT000000035059>
- 12/2011 **Jung, W.**
Promoting pro-poor growth: Policy guidance.
Korea International Cooperation Agency.
<https://lib.koica.go.kr/search/detail/CATTOT000000034417>
- 09/2011 **Jung, W.**
Development of content for Korea's integrated government web platform on official development assistance.
Office of the Prime Minister, Director-General for Development Cooperation Policy.
<https://www.odakorea.go.kr/>
- 01/2011 **Jung, W.** & You-ah Chung.
Strengthening the decentralized approach to aid management.
Korea International Cooperation Agency.
<https://lib.koica.go.kr/search/detail/CATTOT000000032850>
- 12/2010 **Jung, W.**
Korean development cooperation model: Sectoral programs based on Korean experience and comparative advantage.
Korea International Cooperation Agency.
<https://lib.koica.go.kr/search/detail/CATTOT000000030860>
- 2006 Bajracharya, A., **Jung, W.**, Prabhakar, B., & Singh, D.
Empowerment of women from an excluded community in Bihar State.
UNICEF India.
https://www.jungwoojin.org/_files/ugd/bef942_fe229bdcb258489cabf645a6d875f69e.pdf

Conferences, Presentations, and Lectures

Invited Talks

- 2026 “Contextualized poverty targeting with multimodal spatial data and machine learning in Brazzaville, Congo.”
Data Infrastructure for Development (DID) Summit.
Center for Effective Global Action (CEGA), **University of California, Berkeley**.
Lomé, Togo, February 19, 2026. (Fully funded)
<https://cega.berkeley.edu/event/data-infrastructure-for-development-did-2026-linking-geodata-to-decision-making-in-africa-and-beyond/>
- 2026 **Intergovernmental Panel on Climate Change (IPCC)**.
Workshop on Engaging Diverse Knowledge Systems and Methods of Assessment.
Reading, United Kingdom, February 10–12, 2026. (Fully funded)
<https://www.ipcc.ch/event/ipcc-workshop-on-engaging-diverse-knowledge-systems-and-ipcc-workshop-on-methods-of-assessment/>
- 2025 “Targeting Urban Poverty and Food Insecurity: A Community-informed Spatial Analysis and Machine Learning Approach.”
Institute of Social Welfare, **Seoul National University**.
Seoul, Korea, September 2025.
- 2025 “Targeting Urban Poverty and Food Insecurity: A Community-informed Spatial Analysis and Machine Learning Approach.”
Global Policy Lab, Doerr School of Sustainability, **Stanford University**.
Stanford, California, August 28, 2025.
- 2025 “Targeting Urban Poverty and Food Insecurity: A Community-informed Spatial Analysis and Machine Learning Approach.”
Seminar at the Institute for Research on Labor and Employment
University of California, Berkeley.
Berkeley, California, August 27, 2025. (Fully funded)
- 2025 “Contextualized poverty targeting through multimodal spatial data and machine learning in Brazzaville, Congo.”
13th Annual Africa Evidence Summit.
Center for Effective Global Action (CEGA), **University of California, Berkeley**.
Nairobi, Kenya, June 23–24, 2025. (Fully funded)
<https://cega.berkeley.edu/event/2025-africa-evidence-summit-2/>
- 2025 “Geographic targeting of food security in urban areas informed by community-driven insights.”
International Conference on Integrated Health and Social Work.
National Taiwan University.
Taipei, Taiwan, May 29, 2025. (Partially funded)
<https://socialwork.rutgers.edu/news/rutgers-school-social-work-co-hosts-2025-international-conference-integrated-health-and-social>

- 2023 “Using AI/ML to measure poverty and strengthen social safety net: The case of Sub-Saharan Africa and Southeast Asia.”
Seoul National University.
Seoul, Korea, July 2023.
- 2022 Innovation-technology-inclusion special lecture series.
Ewha Womans University.
Seoul, Korea, May 2022.
- 2021 “Addressing global poverty through the convergence of AI and social welfare.”
Sungkyunkwan University.
Seoul, Korea, September 2021.
- 2021 Innovation-technology-inclusion special lecture series.
Ewha Womans University.
Seoul, Korea, April 2021.
- 2020 “Combining satellite imagery with deep learning to predict poverty in data-sparse contexts.”
Korea Association of International Development and Cooperation (KAIDEC) and Asia Center at **Seoul National University.**
Seoul, Korea, July 2020.
- 2020 “Using machine learning to evaluate aid distribution.”
Institute of Governmental Studies, **Korea University.**
Seoul, Korea, January 2020.
- 2012 “Korea’s assistance to fragile states.”
East Asian Development and Human Security Workshop.
Harvard University.
Cambridge, MA, November 2012.
- 2011 “Korea: The road from a successful recipient to a major donor.”
4th Seoul ODA International Conference.
Ministry of Foreign Affairs, Republic of Korea.
Seoul, Korea, November 2011.

Conference Presentations

- 2026 **Jung, W.**, Kim, A. H., Hung, Y., Chear, C., Shah, V., & Ammari, T.
“Digital Pulse of Development: Constructing Poverty Metrics from Social Media Discourse.”
Society for Social Work and Research Annual Conference (**SSWR**).
Washington, DC. January 16, 2026.
- 2026 **Jung, W.**, Kim, A. H., & Shah, V.
“Spatial Data Science: Visualizing and Analyzing Community Needs” [Workshop].
Society for Social Work and Research Annual Conference (**SSWR**).
Washington, DC. January 15, 2026.

- 2025 **Jung, W.**, Sinha, A., Kim, A. H., Shah, V., Lu, Y., Lee, L., & Ammari, T.
 “The last mile in remote sensing poverty prediction.”
 Presented at:
- Association for Public Policy Analysis and Management (**APPAM**) Conference. Seattle, Washington. November 13–15, 2025.
 - **RISE AI Conference**. University of Notre Dame, Indiana, October 6–8, 2025.
 - **ACM Conference on Computing and Sustainable Societies (COMPASS)**. University of Toronto, Toronto, Canada, July 22–25, 2025.
 - Symposium on Spatiotemporal Data Science. **Harvard Center for Geographic Analysis (CGA)**, Cambridge, Massachusetts. May 24, 2025.
- 2025 **Jung, W.**, Hung, Y., Kim, A. H., Chear, C., Shah, V., & Ammari, T.
 “Digital pulse of development: Generating poverty metrics from social media discourse.”
 5th **ACM Conference on Equity and Access in Algorithms, Mechanisms, and Optimization (EAAMO’25)**.
 Pittsburgh, Pennsylvania, November 5–7, 2025.
- 2025 **Jung, W.**, Stoeffler, Q., Kim, A. H., Goudarzi, S., Benotsmane, R., & Shah, V.
 “Geographic targeting in urban areas informed by community-driven insights.”
 Society for Social Work and Research (**SSWR**).
- 2025 **Jung, W.**
 “Contextualized poverty targeting through multimodal spatial data and machine learning in Congo.”
 Society for Social Work and Research (**SSWR**). (Poster)
- 2024 **Jung, W.**
 “Contextualized poverty targeting through multimodal spatial data and machine learning in Congo.”
ACM Conference on Equity and Access in Algorithms, Mechanisms, and Optimization (EAAMO’24). (Poster)
- 2024 **Jung, W.**
 Invited participant at the Technical Executive Committee Meeting to discuss the “AI for Climate Action Initiative.”
 United Nations Framework Convention on Climate Change (**UNFCCC**).
 Bonn, Germany.
- 2023 **Jung, W.**, Ghadimi, S., Ntarlagiannis, D., & Kim, A. H.
 “Using Artificial Intelligence/Machine Learning to evaluate the distribution of community development aid across Myanmar.”
ACM Conference on Equity and Access in Algorithms, Mechanisms, and Optimization (EAAMO’23). (Poster)
 Northeastern University, Boston, Massachusetts.
- 2022 **Jung, W.**
 “AI-informed vulnerability index to target food security pack in Zambia.”
 International Conference on Sustainable Development (**ICSD**).
 Columbia University, New York, New York.

- 2022 **Jung, W.**
 “AI-informed vulnerability index to target food security pack in Zambia.”
 Association for Public Policy Analysis and Management (**APPAM**).
 Austin, TX. March 27, 2022.
- 2022 Ziemer, K., Ren, C., Rodriguez, M., & **Jung, W.**
 “Social Media as a Source of Data — Lessons Learned and Implications for Utilizing
 Computational Methods in Social Work Research.”
 Society for Social Work and Research (**SSWR**).
 Washington, DC. January 16, 2022.
- 2021 **Jung, W.**
 “Using deep learning to evaluate the distribution of community development aid.”
 Society for Social Work and Research (**SSWR**).
- 2020 Lee, J., **Jung, W.**, & Ren, C.
 “Teaching data science in social work: Lived experiences and future directions.”
 Accepted as a Panel in the Research and Program Evaluation Track at the Council
 on Social Work Education (**CSWE**) 66th Annual Program Meeting.
- 2020 **Jung, W.**
 “Mapping community-led development aid: Combining satellite imagery and spatial
 data.”
 Society for Social Work and Research (**SSWR**).
 Washington DC.
- 2019 **Jung, W.**
 “Mapping community-led development projects: Spatial analysis in Myanmar.”
 Poster presented at:
 ○ Geospatial Analysis for International Development (**Geo4Dev**). Berkeley, Califor-
 nia.
 ○ Society for Social Work and Research (**SSWR**). Washington DC.
 ○ International Conference on Sustainable Development (**ICSD**). New York, New
 York.
 ○ Association for Public Policy Analysis and Management (**APPAM**). Denver,
 Colorado. November 7, 2019.
- 2018 **Jung, W.**
 “Discrepancy between two approaches to global poverty: What does it reveal?”
 Society for Social Work and Research (**SSWR**).
 Washington DC.
- 2018 **Jung, W.**, & Organista, K.
 “Working and living conditions and psychological distress in Latino migrant day
 laborers.”
 Society for Social Work and Research (**SSWR**).
 Washington DC.

- 2017 **Jung, W.**
 “Analytical framework for community-driven development in fragile states: A case study in Myanmar.”
 Development Studies Association (**DSA**).
 Bradford, UK.
- 2017 **Jung, W.**
 “Evidence in a changing aid landscape.”
 Development Studies Association (**DSA**).
 Bradford, UK.
- 2016 **Jung, W.**
 “Discrepancy between two approaches to global poverty: What does it reveal?”
 Development Studies Association (**DSA**).
 Oxford, UK.
- 2015 **Jung, W.**
 “More aid to countries in need?”
 International Conference on Sustainable Development (**ICSD**).
 New York, New York.
- 2012 Kim, P. H., & **Jung, W.**
 “Does the welfare-ODA nexus exist?”
 Asian Political and International Studies Association (**APISA**).
 Hong Kong.

Funding

External Grants

- 2026–2028 Developing High Resolution Vulnerability Index to Improve Community Resilience in New Jersey.
 Funder: National Oceanic and Atmospheric Administration (**NOAA**) & New Jersey Sea Grant Consortium
 Role: PI
- 2025–present Poverty, Environment, and Canine Health: A Spatial One Health Analysis Using the Golden Retriever Lifetime Study.
 Funder: Morris Animal Foundation.
 Role: PI
- 2025–2026 Leveraging AI/ML in Poverty Targeting & Social Safety Net Programs.
 Funder: National Science Foundation (**NSF**) ACCESS Program
 Role: PI
- 2023–2024 Assessing the Vulnerability of Climate-Induced IDP Communities and Developing Climate Resilience Models in the Philippines.
 Funder: Korea International Cooperation Agency (**KOICA**)
 Role: co-PI (PI: Min-An Kang)

2021–2023 AI for Humanitarian Action Project.
Funder: **Microsoft Corporation.** (Azure Grant)
Role: PI

Internal Grants

2025–2026 Robust Spatial Poverty Prediction and Data-Driven Resource Allocation.
Funder: School of Social Work, Rutgers University. (Department Seed Grant)
Role: PI

2023–2025 Detecting Human-Interpretable Features from Satellite Imagery to Support Poverty Mapping.
Funder: Office for the Vice Provost for Research (OVPR). (AI/ML Pilot Seed Grant)
Role: PI

2023–2024 Improving Distribution of Food Aid via Trustworthy Multimodal Poverty Prediction.
Funder: Cyberinfrastructure & AI for Science and Society (CASS). (Seed Grant)
Role: PI

2021–2023 Developing AI-informed Vulnerability Index to Target Food Security Pack Program in Zambia.
Funder: Graduate Research Council, Rutgers University. (Collaborative Multidisciplinary Awards)
Role: PI

2021–2022 Exploring Scalable Multimodal Approaches to Identify Vulnerable Populations in the Congo.
Funder: Global Health Institute.
Role: PI

Contracts

09/2024 Provided expert consultation on the Korean government’s strategy to promote artificial intelligence (AI) for climate action initiatives in UNFCCC in Bonn, Germany.
Funder: Korea International Cooperation Agency.
Role: PI

07/2015–10/2015 Provide consultation services for designing and evaluating rural community development projects in Myanmar and Nepal.
Funder: Korea Development Strategy.
Role: PI

06/2013–12/2013 Performance Evaluation of the Lee Jong-Wook Fellowship Training (One-Year Medical Program). Agency: Korea Foundation for International Healthcare.
Role: co-PI (PI: Minah Kang)

2013–2019 Managing Integrated Rural Development Projects in Myanmar and Nepal.
Funder: Korea International Cooperation Agency.
Role: Lead project proposal as a lead author.

- 07/2012–10/2012 Present strategies for building and utilizing a technology inventory for Official Development Assistance (ODA) projects.
Funder: Korea Ministry of Foreign Affairs.
Role: PI
- 06/2012–11/2012 A Meta-Evaluation of Evaluation Reports by Korea’s ODA Implementing Agencies.
Role: Project lead and corresponding author for both proposal and report.
- 06/2012–11/2012 Developed technology inventory for Korea’s ODA Projects.
Funder: Ministry of Foreign Affairs Korea.
Role: PI
- 12/2011–06/2012 A systematic review of evaluation reports by Korea’s ODA implementing agencies.
Funder: Korean Prime Minister’s Office.
Role: Project Lead and Principal Author for both proposal and report.
- 05/2011–08/2011 Development of content for Korea’s integrated government web platform on Official Development Assistance (ODA) at <https://www.odakorea.go.kr/>.
Funder: Office of the Prime Minister.
Role: Project Lead and Principal Author
- 2011–2012 Social protection programs for the urban poor in the Global South.
Funder: Korea International Cooperation Agency (KOICA).
Role: Project Lead and Principal Author for both proposal and report

Teaching Activities

Teaching

Current Institution (Rutgers University)

- AI/ML/Spatial Data Science for Global Development (Ph.D. Seminar), Spring 2026
- Social Welfare Policy, Fall 2023, Spring 2024
- Research Methods I, Spring 2021, 2022, 2025
- Advanced Statistical Methods II: Generalized Linear Models (Ph.D. Seminar), Spring 2020, 2021, 2022, 2024
- Program Evaluation, Fall 2020, 2021, 2022, 2024

Previous Institutions

- Social Welfare Policy, U.C. Berkeley, Summer 2018
- Berkeley Connect (Mentored undergraduates in small-group format), U.C. Berkeley, 2017–2018
- Data Science Discovery (Undergraduate Research Apprentice Program), U.C. Berkeley, 2015–2016
- Seminar in Social Welfare Research (Graduate Student Instructor), U.C. Berkeley, 2014–2016
- Social Work as a Profession (Graduate Student Instructor), U.C. Berkeley, Spring 2014
- Multi-Ethnic Societies & Conflict Management, Ewha University, Spring 2012

- Globalization and Development, Ewha University, Spring 2011
- International Cooperation, Sogang University, Spring 2010

Other teaching roles

- Economic Analysis of Public Policy (TA), Harvard University, Fall 2016
- Quantitative Analysis & Empirical Methods (TA), Harvard University, Spring 2016

Curricular Development

- 01/2026 *AI and Spatial Data Science for Global Development (Ph.D.)*
Developed a doctoral-level course emphasizing applied spatial data science for global development, including novel data sources, collaborative policy-relevant research projects, and hands-on computational training.
<https://rutgers.box.com/s/vd6mvti2qbf3qxjug1gnfl853et483pe>
- 01/2021 *Advanced Statistical Methods II: Generalized Linear Models*
Developed the course structure, instructional materials, and assessments.
<https://rutgers.app.box.com/s/vv0bhu6q9z8wtrqr1938gt0uys4mh7nz>
- 10/2021 Outreach/Instructional Resource: Developed a YouTube tutorial on Visual Studio Code for Azure Cloud Computing, in collaboration with a research assistant.
<https://www.youtube.com/watch?v=E6i8srRLvQQ>
- 2016 Contributed to the textbook *International development cooperation: Advanced level Dissemination*: In Korean.

Students Supervised

Doctoral — Committee

- 2023–present Andrew H. Kim, Doctoral student in Social Work.
Dissertation Committee Member, 2 hours per week.
- 2022–present Charles Chear, Doctoral student in Social Work.
Dissertation Committee Member, 1 hour per week.
- 2022 Maryam Hosseini, Ph.D. in Urban Systems.
Served on Dissertation Committee, 1 hour per week.
Dissertation title: “A walk in the city using large data sets to analyze urban sidewalks.”

Service

Editorial and Reviewing Activities

- 2026–present Grant proposal reviewer, Swiss National Science Foundation
- 2025 Program Committee Member and Paper Reviewer: ACM Equity and Access in Algorithms, Mechanisms, and Optimization (EAAMO).

- 2020–present Ad-hoc Reviewer
PLOS ONE, Scientific Reports, Socio-Economic Planning Sciences, World Development, Information Processing & Management, Social Science and Medicine, Social Indicators Research, European Journal of Development Research, Society for Social Work and Research, Humanities and Social Sciences Communications, Economics of Disasters and Climate Change, The International Review of Public Administration, International Journal of Social Welfare.
- 2020 Editorial board member of the Korean Association for Public Administration.

Organizing and Chairing Activities

- 2026 Moderator, Aligning Ethical AI in Social Work, Virtual Social Work AI Network (SWAN) Webinar (720 registered; 437 attendees)
- 2025 Faculty Network Organizer & Session Chair, Association for Computing Machinery (ACM) Equity and Access in Algorithms, Mechanisms, and Optimization (EAAMO), Ithaca, New York, United States.
- 2024 Session Chair, International Conference on Inequality & Social Policy in Korea, Korea Inequality Research Lab at Yonsei University, Seoul, Korea. August 2024.
- 2023 Co-organizer, Pre-Conference workshop on data science at the 2023 Conference of the Society for Social Work and Research (SSWR).
- 2010 Co-Chair, Catalyzing Development: A New Vision for Aid Workshop, Washington D.C., July 2010. Hosted by the Brookings Institute.

University Service

- 01/2025–present Affiliates, Rutgers Climate and Energy Institute
- 01/2025–present Interviewed faculty candidate for Rutgers Global Health Institute. Rutgers Center for Climate, Health, and Healthcare
- 09/2024–present Scholarly community affiliates, The Rutgers Artificial Intelligence and Data Science (RAD) Collaboratory
- 05/2024–present Course Coordinator for Social Welfare Policy and Services
- 01/2024 Peer teaching observer for non-tenure-track faculty
- 08/2023 Qualifying Exam Grader
- 06/2023–present Appointed to serve on the Research Advisory Committee
- 01/2023–present Research Advisory Committee, Rutgers School of Social Work
- 05/2022–09/2022 Organized and hosted monthly data science seminars
- 03/2022–05/2022 Interviewed faculty candidate for Rutgers Global Health Institute

- 09/2006– Vice President of Academic Affairs (elected), Harvard Kennedy School
05/2007
- 09/2002– Community Liaison (elected), Washington University in St. Louis, Brown School of
05/2003 Social Work
- 03/1996– Vice President (elected), Ewha Woman’s University, School of Social Welfare
02/1997

Community Service

- 10/2024– Approved Puppy Raiser, The Seeing Eye Puppy Raising Program
present
- 01/2024– Opinion Columnist of the Newspaper, eToday
12/2024

Honors and Awards

Professional Awards and Honors

- 2026 Excellence Award
Northeast Regional Conference (NRC)
Korean-American Scientists and Engineers Association (KSEA)
- 2025 Honorable Mention Award,
5th Association for Computing Machinery (ACM) Conference on Equity and Access
in Algorithms, Mechanisms, and Optimization (EAAMO’25)
*Digital Pulse of Development: Constructing Poverty Metrics from Social Media
Discourse.* (selected from 120+ submissions)
- 2025 Rutgers Innovation Award: Social Innovation
Rutgers University
- 2020 Outstanding Social Work Doctoral Dissertation Award
Society for Social Work and Research (SSWR)
- 2019 National Science Foundation Research Traineeship Program (NRT) Grant
- 2018 Graduate Division Summer Grant
University of California, Berkeley Graduate Division, 2018, 2016 & 2014
- 2017 Development Studies Association Travel Funding
- 2016 Highest Honors in Graduate Research Award
Korea Association of International Development Cooperation
- 2015 Social Welfare Block Grant Award
University of California, Berkeley, 2014–2015
- 2006 Roy Family Scholarship
Harvard Kennedy School

- 2004 National Winner of the Influencing State Policy Contest
Council on Social Work Education (CSWE)
- 2002 Daniel Sandra Scholarship
Washington University in St. Louis
- 1997 Honorary Award and Scholarship for Community Services
Ewha Womans University

Fellowships

- 2017–2019 National Science Foundation (NSF) Innovations at the Nexus of Food, Water, and Energy Systems Program (InFEWS) Fellowship
University of California, Berkeley
- FA. 2018 & SP. 2017 Doctoral Completion Fellowship Award
- 2017–2018 Berkeley Connect Fellowship.
University of California, Berkeley
- 2016 Human Rights Center Fellowship
Human Rights Center

Professional Experience

- 2012–2013 Senior Researcher, Korea Institute for Development Strategy (KDS), Seoul, Korea
- 2009–2011 Senior Policy Analyst, Korea International Cooperation Agency (KOICA), Seongnam, Korea
- 2007–2008 Consultant, UNICEF Division of Policy and Planning, New York, NY
- 2002–2004 Public Relations Officer, The Korean Community Service Center of Greater Washington, Annandale, VA
- 1998–2000 Youth Department Manager, Jeonghae Bokji, Seoul, Korea
- 1998–1999 Corporate Social Responsibility Coordinator, Samsung Corporation, Seoul, Korea

Professional Membership

- 2025 Korean-American Scientists and Engineers Association (KSEA)
- 2025 Social Work AI Network (SWAN), Program Committee
- 2023 Association for Computing Machinery (ACM), Faculty Network Organizer
- 2018 Society for Social Work and Research (SSWR)
- 2018 Association for Public Policy Analysis and Management (APPAM)

Additional Information

Certificates and Licenses

Certificate of Social Worker, License grade: 1st, License number: 1-12903.
Issued by Korea Association of Social Workers.

Linguistic Ability

English, Korean, French (Basic)