

# Woojin Jung

Assistant Professor

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## Contact

## Office Address

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[Faculty Profile](#)  
[CV](#)

## ORCID ID

0000-0001-9179-2573

## Education

## Highest Earned Degree

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

## Dissertation(s)

*Combating Poverty through Aid: A Critical Analysis of Alternative Models*, May 17, 2019, (Dissertation Chair: Dr. Neil Gilbert)

## Other Earned Degrees

**Harvard Kennedy School, Master in Public Policy**, Cambridge, November 2007,  
Concentration: Political and Economic Development

**Washington University in St. Louis, Master of Social Work**, December 2004,  
Concentration: Social and Economic Development

**Ewha Womans University, Bachelor of Arts in Social Welfare**, Seoul, March, 1998,  
Minor: Education Psychology

## Certificates and Licenses Held

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

## Linguistic Ability

Korean, English, French (Basic)

## Publications

## Articles in Refereed Journals

\* Denotes student

Under Review

- 2025 **Jung, W.**, Kim, A. H.,\* Sinha, A., Stoeffler., Q., Ghadimi, S., Shah, V.,\* Garg, K.,\* & Ammari, T. (Revise and Resubmit) Multimodal poverty mapping and geographic transfer allocation. *Sustainable Cities and Society*.

Accepted or In Press

- 2025 **Jung, W.**, Kim, A. H.,\* Hung, Y., Chear, C.,\* Shah, V.,\* & Ammari, T. (2026, 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

- 2025 **Jung, W.**, Benotsmane, R.,\* Stoeffler., Q., Kim, A. H.,\* Ghadimi, S., Ntarlagiannis, D., Hosseini, M.,\* Ammari, T., Lu, Y.,\* & Steiner, J.\* (2026). 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.\* (2025). Targeting urban poverty and food insecurity: A community-informed spatial analysis and machine learning approach. *Sustainable Cities and Society*. <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. (2025). The last mile in remote sensing poverty prediction. *Association for Computing Machinery (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.\* (2025). 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.\* (2024). 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. (2023). 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.** (2023). Mapping community development projects: Spatial analysis in Myanmar. *World Development*. 164. <https://doi.org/10.1016/j.worlddev.2022.106124>
- 2022 **Jung, W.** (2022). 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.** (2020). Two models of community-centered development in Myanmar. *World Development*, 136. <https://doi.org/10.1016/j.worlddev.2020.105081>
- 2020 **Jung, W.** (2020). 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. (2020). 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.** (2020). 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. (2019). 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.** (2018). Ownership and planning capacity in the Asian-style development cooperation: South Korean knowledge sharing program to Vietnam. *Korea Observer*, 49(2), 349-368. <https://doi.org/10.29152/KOIKS.2018.49.2.349>

### Published Conference Proceedings

#### Under Review

- 2014 **Jung, W.**, Chear, C.,\* Kim, A.,\* Shah, V.,\* & Ammari, T. (Revise and Resubmit). Spatiotemporal change-points in development discourse: Insights from social media in low-resource contexts. In Proceedings of the CHI 2026 Conference on Human Factors in Computing Systems (CHI'26).

#### Accepted or In Press

- 2025 **Jung, W.**, Kim, A. H.,\* Hung, Y., Chear, C.,\* Shah, V.,\* & Ammari, T. (2026). 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). 34 pages. 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

### Edited Books, Anthologies, Collections, Bibliographies

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

### Chapters in Books or Monographs

- 2015 Kim, P. H., & **Jung, W.** (2015). Does domestic welfare reform spill into development assistance overseas? The South Korean case. In R. Hasmath (Ed.), *Inclusive growth, development and welfare policy* (pp. 44-59). Routledge. <https://doi.org/10.4324/9781315732626>
- 2016 **Jung, W.** (2016). 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>

### Textbooks

- 2016 **Jung, W.** (2016). 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 or General Journals

- 2013 Chun, S.-H. & **Jung, W.** (2013). 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.** (2010). The Korean Development Cooperation Model: From the perspective of Korean experience and comparative advantage. Korea International Cooperation. *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 (2010). Cross-cutting issues: Poverty. *Journal of International Development Cooperation*. (4), 120-150.  
<https://doi.org/10.34225/jidc.2010.4.26>
- 2010 **Jung, W.** (2010). 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.** (2010) 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.** (2010). 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, Editorials, Exemplars

- 2021 **Jung, W.** (2021). [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/>

#### Polity Reports and Other Publications

- 2012 Jung, W. et al. (2012, August). *Social protection programs for the urban poor in the Global South*. Korea International Cooperation Agency.  
<https://lib.koica.go.kr/search/detail/CATTOT000000035059>
- 2012 Jung, W. et al. (2012, October) *Development of technology inventory for ODA projects*. Ministry of Foreign Affairs, Development Cooperation Bureau.  
<https://www.prism.go.kr/homepage/asmt/popup/1260000-201200048>
- 2012 Jung, W. et al. (2012, November) *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>
- 2011 Jung, W. & You-ah Chung (2011, January). *Strengthening the decentralized approach to aid management*. Korea International Cooperation Agency.  
<https://lib.koica.go.kr/search/detail/CATTOT000000032850>
- 2011 Jung, W. (2011, September). *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/>
- 2011 Jung, W. (2011, December). *Promoting pro-poor growth: Policy guidance*. Korea International Cooperation Agency.  
<https://lib.koica.go.kr/search/detail/CATTOT000000034417>

- 2010 Jung, W. (2010, December). *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. (2006). *Empowerment of women from an excluded community in Bihar State*. UNICEF India. 57 pages. [https://www.jungwoojin.org/\\_files/ugd/bef942\\_fe229bdc258489cabf645a6d875f69e.pdf](https://www.jungwoojin.org/_files/ugd/bef942_fe229bdc258489cabf645a6d875f69e.pdf)

**Conference  
Presentations,  
Lectures,  
Demonstrations**

**Invited Addresses**

- 2015 **Invited Speaker**, "Targeting Urban Poverty and Food Insecurity: A Community-informed Spatial Analysis and Machine Learning Approach," hosted by the Institute of Social Welfare, **Seoul National University**, Seoul, Korea, September 2025.
- 2015 **Invited Speaker**, "Targeting Urban Poverty and Food Insecurity: A Community-informed Spatial Analysis and Machine Learning Approach," hosted by the Global Policy Lab, Stanford Doerr School of Sustainability, **Stanford University**, Aug 28th, 2025.
- 2025 **Invited Speaker**, "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, co-sponsored by the School of Social Welfare at **University of California Berkeley**, Aug 27th, 2025.
- 2025 **Selected Presenter** (Partially Funded), "Geographic targeting of food security in urban areas informed by community-driven insights," **Conference on Integrated Health and Social Work**, National Taiwan University, Taipei, Taiwan, May 29th, 2025.
- 2025 **Selected Presenter** (Fully Funded), "Contextualized poverty targeting through multimodal spatial data and machine learning in Brazzaville, Congo", **The 2025 Africa Evidence Summit** in Nairobi, Kenya, hosted by the Center for Effective Global Action (CEGA) at University of California Berkeley, June 23rd, 2025.
- 2023 **Invited Seminar Speaker**, "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.
- 2023 **Invited Seminar Speaker**, "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. May 2023.
- 2022 **Invited Guest Lecturer** in Innovation-technology-inclusion special lecture series: Ewha Womans University, Seoul Korea, May 2022.
- 2021 **Invited Guest Lecturer**, "Addressing global poverty through the convergence of AI and social welfare", Sungkyunkwan University, Seoul Korea, September 2021.
- 2021 **Invited Guest Lecturer** in Innovation-technology-inclusion special lecture series: Ewha Womans University, Seoul Korea, April 2021.
- 2020 **Invited Seminar Speaker**, "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 **Invited Colloquium Speaker**, "Using machine learning to evaluate aid distribution", Institute of Governmental Studies, Korea University, Seoul Korea, January 2020.

- 2012 **Invited Workshop Speaker**, “*Korea’s assistance to fragile states*”, East Asian Development and Human Security Workshop, Harvard University, Cambridge, MA, November 2012.
- 2011 **Invited Presenter**, “*Korea: The road from a successful recipient to a major donor*”, 4th Seoul ODA International Conference, Seoul, Korea, November 2011. Hosted by Ministry of Foreign Affairs of Korea.

### Papers, Abstracts, and Lectures

- 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, United States
- 2016 **Jung, W.**, Kim, A. H., & Shah, V. (2026, January 15). Spatial Data Science: Visualizing and Analyzing Community Needs [Workshop]. Society for Social Work and Research Annual Conference (**SSWR**), Washington, DC, United States
- 2025 **Jung, W.**, Sinha, A., Kim, A. H., Shah, V., Lu, Y., Lee, L., & Ammari, T. The last mile in remote sensing poverty prediction, Paper accepted for a Panel Presentation at the 2025 Association for Public Policy Analysis and Management (**APPAM**) Conference. Seattle, WA, November 13th -15th, 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, Paper accepted for a presentation at the 5th Association for Computing Machinery (ACM) Conference on Equity and Access in Algorithms, Mechanisms, and Optimization (**EAAMO '25**). Pittsburgh, PA, November 5 - 7, 2025.
- 2025 **Jung, W.**, Sinha, A., Kim, A. H., Shah, V., Lu, Y., Lee, L., & Ammari, T. The last mile in remote sensing poverty prediction, Paper accepted for a Panel Presentation in the Reimagining Global Governance and Policymaking track at the **RISE AI Conference**, University of Notre Dame, Indiana, October 6th -8th, 2025.
- 2025 **Jung, W.**, Sinha, A., Kim, A. H., Shah, V., Lu, Y., Lee, L., & Ammari, T. The last mile in remote sensing poverty prediction, Association for Computing Machinery (ACM) Conference on Computing and Sustainable Societies (**COMPASS**) 2025, at the University of Toronto, Toronto, Canada, July 22nd–25th, 2025.
- 2025 **Jung, W.**, Sinha, A., Kim, A. H., Shah, V., Lu, Y., Lee, L., & Ammari, T. The last mile in remote sensing poverty prediction, The 2025 Symposium on Spatiotemporal Data Science, **Harvard Center for Geographic Analysis (CGA)**, Cambridge, MA. May 24th, 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, 2025 Conference of the Society for Social Work and Research (**SSWR**). Paper presentation.
- 2025 **Jung, W.** Contextualized poverty targeting through multimodal spatial data and machine learning in Congo, 2025 Conference of the Society for Social Work and Research (**SSWR**). Poster presentation.
- 2024 **Jung, W.** Contextualized poverty targeting through multimodal spatial data and machine learning in Congo, Association for Computing Machinery (ACM) conference on Equity and Access in Algorithms, Mechanisms, and Optimization (**EAAMO '24**), Virtual, Poster Presentation.
- 2024 **Jung W.** Invited participant at the Technical Executive Committee Meeting, the 2024 United Nations Framework Convention on Climate Change (**UNFCCC**), Bonn, Germany, to discuss the “*AI for Climate Action Initiative*”.

- 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. Association for Computing Machinery (ACM) conference on Equity and Access in Algorithms, Mechanisms, and Optimization (**EAAMO '23**) at Northeastern University, Poster presentation.
- 2022 **Jung, W.** AI-informed vulnerability index to target food security pack in Zambia. Paper accepted to the 2022 International Conference on Sustainable development (**ICSD**) at Columbia University.
- 2022 **Jung, W.** AI-informed vulnerability index to target food security pack in Zambia. Paper presented at the Session Machine Learning for Leveraging Rich Data Sources to the 2022 Public Policy Analysis and Management (**APPAM**), Austin, TX. March 27th, 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*”, to the 2022 Conference of the Society for Social Work and Research (**SSWR**), Washington, D.C. January 16<sup>th</sup>, 2022.
- 2021 **Jung, W.** Using deep learning to evaluate the distribution of community development aid. Paper presented at the virtual 2021 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 Virtual Council on Social Work Education (**CSWE**) 66<sup>th</sup> 2020 Annual Program Meeting.
- 2020 **Jung, W.** Mapping community-led development aid: Combining satellite imagery and spatial data. Paper presented at the 2020 Society for Social Work and Research (**SSWR**) in Washington D.C.
- 2019 **Jung, W.** Mapping community-led development projects: Spatial analysis in Myanmar. Poster accepted at the Geospatial Analysis for International Development in Berkeley, Berkeley, CA. (**Geo4Dev**).
- 2019 **Jung, W.** Mapping community-led development projects: Spatial analysis in Myanmar. Poster accepted at the 2019 Society for Social Work and Research (**SSWR**) in Washington D.C.
- 2019 **Jung, W.** Mapping community-led development projects: Spatial analysis in Myanmar. Poster accepted at the 2019 International Conference on Sustainable Development (**ICSD**) in New York.
- 2019 **Jung, W.** Mapping community-led development projects: Spatial analysis in Myanmar. Poster accepted at the 2019 Association for Public Policy Analysis and Management (**APPAM**), Denver, CO. November 7th, 2019.
- 2018 **Jung, W.** Discrepancy between two approaches to global poverty: What does it reveal? Paper presented at the 2018 Society for Social Work and Research (**SSWR**) in Washington D.C. and the 2016 Development Studies Association (**DSA**) in Oxford, UK.
- 2018 **Jung, W.**, & Organista, K. Working and living conditions and psychological distress in Latino migrant day laborers. Paper presented at the 2018 Society for Social Work and Research (**SSWR**) in Washington D.C.
- 2017 **Jung, W.** Analytical framework for community-driven development in fragile states: A case study in Myanmar. Paper presented at the 2017 Development Studies Association (**DSA**) in Bradford, UK.
- 2017 **Jung, W.** Evidence in a changing aid landscape. Paper presented at the 2017 Development Studies Association (**DSA**) in Bradford, UK.



- 2015 **Jung, W.** More aid to countries in need? Paper presented at the 2015 International Conference on Sustainable Development (**ICSD**) in New York.
- 2012 Kim, P. H., & **Jung, W.** Does the welfare-ODA nexus exist? Paper presented at the 2012 Asian Political and International Studies Association (**APISA**) in Hong Kong.

## Funding

### Externally-Funded Research and/or Training Grants

#### received/recommended

- 2026- (Grant Amount: \$201,545) Developing High Resolution Hazard Vulnerability Index to  
2028 Improve Community Resilience in New Jersey (Research grant recommended for funding by reviewers), Woojin Jung, Lucas Marxen, Tawfiq Ammari, Younsung Kim, Agency: National Oceanic and Atmospheric Administration (NOAA) & New Jersey Sea Grant Consortium, Role: PI (Expected decision date: November 2025)
- 2025- (Grant Amount: \$10,000) Leveraging AI/ML in Poverty Targeting & Social Safety Net  
2025 Programs. Received 2,000 GPU hours (equivalent to \$10,000) from NSF ACCESS to support our research projects., Woojin Jung, Agency: National Science Foundation (NSF), Role: PI
- 2023- (Grant Amount: \$100,600) Assessing the Vulnerability of Climate-Induced IDP  
2024 Communities and Developing Climate Resilience Models in the Philippines. Direct support of \$3,000 (₩4,055,963) from a total grant of \$100,600 (₩136,000,000)., Min-An Kang, Woojin Jung, and Younsung Kim, Agency: Korea International Cooperation Agency, Role: co-PI
- 2021- (Grant Amount: \$25,000) AI for Humanitarian Action Project Azure Grant, Woojin Jung,  
2023 Agency: Microsoft, Role: PI

### Internally-Funded Research and/or Training Grants

#### received

- 2025- (Grant Amount: \$20,000) Department Seed Grant, “Robust Spatial Poverty Prediction  
2026 and Data-Driven Resource Allocation”, School of Social Work., Woojin Jung, Agency: School of Social Work, Role: PI
- 06/2012- (Grant Amount: \$48,489) A Meta-Evaluation of Evaluation Reports by Korea’s ODA  
11/2012 Implementing Agencies (₩ 54,549,510),  
<https://www.prism.go.kr/homepage/asmt/popup/1101000-201200025>, Woojin Jung,  
Role: Project lead and corresponding author; conceptualized and led the proposal
- 2023- (Grant Amount: \$10,000) Detecting Human-Interpretable Features from Satellite  
2025 Imagery to Support Poverty Mapping, The Office for the Vice Provost for Research’s AI/ML Pilot Seed Grant., Woojin Jung, Agency: Office for the Vice Provost for Research (OVPR), Role: PI
- 2023- (Grant Amount: \$50,000) Detecting Human-Interpretable Features from Satellite  
2025 Imagery to Support Poverty Mapping, The Office for the Vice Provost for Research’s AI/ML Pilot Seed Grant., Woojin Jung, Agency: Office for the Vice Provost for Research (OVPR), Role: PI
- 2023- (Grant Amount: \$25,000) Improving Distribution of Food Aid via Trustworthy  
2024 Multimodal Poverty Prediction, Cyberinfrastructure & AI for Science and Society (CASS) Seed Grant., Woojin Jung, Agency: Cyberinfrastructure & AI for Science and Society (CASS), Role: PI
- 2021- (Grant Amount: \$18,000) Collaborative Multidisciplinary Awards, Rutgers University  
2023 Research Council, *Developing AI-informed Vulnerability Index to Target Food Security Pack Program in Zambia.*, Woojin Jung, Agency: Graduate Research Council, Role: PI



2021- (Grant Amount: \$10,000) Exploring Scalable Multimodal Approaches to Identify  
2022 Vulnerable Populations in the Congo, Woojin Jung, Agency: Global Health Institute,  
Role: PI

### Contracts

09/2024- (Grant Amount: \$1,717) Provided expert consultation on the Korean government's  
09/2024 strategy to promote artificial intelligence (AI) for climate action initiatives in UNFCCC  
in Bonn, Germany (₩2,232,000)., Woojin Jung, Agency: Korea International  
Cooperation Agency, Role: Consultant

06/2021- (Grant Amount: \$48,489) A systematic review of evaluation reports by Korea's ODA  
12/2011 implementing agencies (₩54,549,510), Woojin Jung, Agency: Korean Prime Minister's  
Office, Role: Project Lead and Principal Author for both proposal and report

07/2015- (Grant Amount: \$18,005) Provide consultation services for designing and evaluating  
10/2015 rural community development projects in Myanmar and Nepal (₩ 20,604,000), Woojin  
Jung, Agency: Korea Development Strategy, Role: PI

06/2013- (Grant Amount: \$36,363) Performance Evaluation of the Lee Jong-Wook Fellowship  
12/2013 Training (One-Year Medical Program)(Total Grant ₩45,454,000), Conducted a field  
survey in Laos, developed an evaluation framework, designed survey instruments, carried  
out survey interviews, and prepared and presented the final report., Minah Kang, Woojin  
Jung, Agency: Korea Foundation for International Healthcare, Role: co-PI

2013- (Grant Amount: \$1,320,180) Managing Integrated Rural Development Projects in  
2019 Myanmar and Nepal  
Role: Conceived project, identified funding opportunity and recruited partner  
organization, authored and presented proposal, and developed impact evaluation design  
and project performance indicators (₩1,445,191,190), Woojin Jung, Agency: Korea  
International Cooperation Agency, Role: Lead project proposal as a lead author

07/2012- (Grant Amount: \$35,700) Present strategies for building and utilizing a technology  
10/2012 inventory for Official Development Assistance (ODA) projects.  
<https://www.prism.go.kr/homepage/asmt/popup/1260000-201200048> (₩ 40,000,000),  
Woojin Jung, Agency: Korea Ministry of Foreign Affairs, Role: PI

06/2012- (Grant Amount: \$37,383) Developed technology inventory for Korea's ODA Projects,  
11/2012 <https://www.prism.go.kr/homepage/asmt/popup/1260000-201200048> (₩40,000,000).,  
Woojin Jung, Seong-il Bae, Hyeong-gon Kim, Myeong-ji Park, Ah-reum Lee, Agency:  
Ministry of Foreign Affairs Korea, Role: PI

05/2011- (Grant Amount: \$18,400) Development of content for Korea's integrated government web  
08/2011 platform on Official Development Assistance (ODA) at <https://www.odakorea.go.kr/>,  
Acting as project lead and main author (₩19,800,000), Woojin Jung, Agency: Office of  
the Prime Minister, Role: co-PI (Project lead and main author)

2011- (Grant Amount: \$56,250) Social protection programs for the urban poor in the Global  
2012 South, <https://lib.koica.go.kr/search/detail/CATTOT000000035059>  
Led proposal development, secured funding, managed research execution, conducted  
field work in Indonesia, the Philippines, and authored manuscript, Acting as project lead  
and main author (₩63,010,000), Woojin Jung, Agency: Korea International Cooperation  
Agency (KOICA), Role: co-PI.(Project Lead and lead author)

### Teaching Activities

### Courses Taught

AI/ML/Spatial Data Science for Global Development (Ph.D. Seminar), Spring 2026

Social Welfare Policy, Rutgers University, Fall 2023, Spring, 2024

Research Methods I, Rutgers University, Spring 2021, 2022, 2025

Advanced Statistical Methods II: Generalized Linear Models (Ph.D. Seminar), Rutgers University, Spring 2020, 2021, 2022, 2024

Program Evaluation, Rutgers University, Fall 2020, 2021, 2022, 2024

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

International Cooperation, Sogang University, Spring, 2010

Multi-Ethnic Societies & Conflict Management, Ewha University, Spring, 2012

Globalization and Development, Ewha University, Spring, 2011

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

### **Curricular Development - Courses and Programs Developed**

- |                 |  |
|-----------------|--|
| 11/2022-ongoing | Designed and developed an interdisciplinary Ph.D.-level course <a href="#"><i>AI/ML/Spatial Data Science for Global Development</i></a> : Developed a doctoral-level instructional design emphasizing applied spatial data science for global development, including novel data sources, collaborative policy-relevant research projects, and hands-on computational training. |
| 10/2021-10/2021 | 10/2021-10/2021: Outreach/Instructional Resource: Developed a YouTube tutorial on <a href="#"><i>Visual Studio Code for Azure Cloud Computing</i></a> , in collaboration with a research assistant.  |
| 01/2021-ongoing | Fully redesigned Advanced Statistical Methods II: Generalized Linear Models, including updated course structure, instructional materials, and assessments.   |
| 2016-2016       | Contributed to the textbook <i>International development cooperation: Advanced level</i> (2016). Dissemination: in Korea   |

### **Syllabi**

[Advanced Statistical Methods II: Generalized Linear Models](#)

### **Teaching Other**

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

## **Students Supervised**

### **Master's or Doctoral Students by Type of Supervision**

#### Doctoral - Committee

- |      |   |
|------|---|
| 2023 | Andrew H. Kim, Doctoral student in Social Work, Dissertation Committee Member, 2 hour per week, 2023 - ongoing, |
|------|---|

- 2022 Maryam Hosseini, Ph.D. in Urban Systems, Served on Dissertation Committee, 1 hour per week, 2022.  
Dissertation title: "A walk in the city using large data sets to analyze urban sidewalks"
- 2022 Charles Chear, Doctoral student in Social Work, , Dissertation Committee Member, 1 hour per week, 2022 - ongoing

## Service

### Service to Other Public Bodies

- 10/2024-ongoing Approved Puppy Raiser, The Seeing Eye Puppy Raising Program
- 01/2024-12/2024 Opinion Columnist of the Newspaper, eToday
- 2021-2022 The Parent and Teacher Organization for Bartle Elementary School.

### Service to Rutgers University

- 01/2025-ongoing Affiliates, Rutgers Climate and Energy Institute
- 01/2025-ongoing Interviewed faculty candidate for Rutgers Global Health Institute. Rutgers Center for Climate, Health, and Healthcare
- 09/2024-ongoing Scholarly community affiliates, The Rutgers Artificial Intelligence and Data Science (RAD) Collaboratory
- 08/2024-ongoing Appointed to Critical AI @ Rutgers steering committee, School of Arts and Sciences
- 05/2024-ongoing Course Coordinator for Social Welfare Policy and Services
- 01/2024-01/2024 Peer teaching observer for non-tenure-track faculty
- 08/2023-08/2023 Qualifying Exam Grader
- 06/2023-ongoing Appointed to serve on the Research Advisory Committee
- 01/2023-ongoing 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.

## Employment History

### Positions Held

- 02/2020-ongoing **Core Faculty**, Rutgers Global Health Institute
- 07/2019-ongoing **Assistant Professor**, Rutgers, The State University of New Jersey, School of Social Work

2018- 2019	<b>Statistician</b> , University of California at Berkeley
2012- 2013	<b>Senior Researcher</b> , Korea Institute for Development Strategy (KDS) in Seoul, Korea
2011- 2012	<b>Research Fellow</b> , Graduate School of International Studies at Ewha Womans University in Seoul, Korea
2010- 2010	<b>Lecturer</b> , Sogang University in Seoul, Korea
2009- 2011	<b>Senior Policy Analyst</b> , Korea International Cooperation Agency (KOICA) in Seongnam, Korea
2007- 2008	<b>Consultant</b> , UNICEF Division of Policy and Planning in New York, NY
2007- 2008	<b>Data Analyst</b> , Malcolm Wiener Center for Social Policy, Harvard Kennedy School in Cambridge, MA
2002- 2004	<b>Public Relations Officer</b> : The Korean Community Service Center of Greater Washington, Annandale, VA
1998- 2020	<b>Youth Department Manager</b> , Jeonghae Bokji in Seoul, Korea
1998- 1999	<b>Corporate Social Responsibility</b> Coordinator, Samsung Corporation in Seoul, Korea

## Editorial Activities

### Editorship of Scholarly or Professional Journals

2025- ongoing	Ad-hoc Reviewer: Socio-Economic Planning Sciences
2025- ongoing	<b>Ad-hoc reviewer</b> , <i>Information Processing &amp; Management</i>
2025- 2025	<b>Paper Reviewer</b> , 2025 Association for Computing Machinery (ACM) Equity and Access in Algorithms, Mechanisms, and Optimization (EAAMO)
2025- 2025	<b>Program Committee Member</b> , 2025 Association for Computing Machinery (ACM) Equity and Access in Algorithms, Mechanisms, and Optimization (EAAMO)
2024- ongoing	<b>Ad-hoc reviewer</b> , <i>Society for Social Work and Research</i>
2024- ongoing	<b>Ad-hoc reviewer</b> , <i>Scientific Report</i>
2022- ongoing	<b>Ad-hoc reviewer</b> , <i>European Journal of Development Research</i>
2022- ongoing	<b>Ad-hoc reviewer</b> , <i>Humanities and Social Sciences Communications</i>
2022- ongoing	<b>Ad-hoc reviewer</b> , <i>Social Indicators Research</i>
2021- ongoing	<b>Ad-hoc reviewer</b> , <i>Economics of Disasters and Climate Change Springer Nature</i>

- 2021-ongoing **Ad-hoc reviewer**, *Social Science and Medicine*
- 2021-ongoing **Ad-hoc reviewer**, *World Development*
- 2020-ongoing **Ad-hoc reviewer**, *The International Review of Public Administration*
- 2020-ongoing **Ad-hoc reviewer**, *International Journal of Social Welfare*

#### **Membership on Editorial Boards of Scholarly or Professional Journals**

- 2020-ongoing Editorial board member of the Korean Association for Public Administration.

### **Organizing and Chairing Activities**

#### **Participation in Organizing or Chairing Conferences, Workshops, and Organizations**

- 2024-ongoing **Faculty Network Organizer & Session Chair**, *Association for Computing Machinery (ACM) Equity and Access in Algorithms, Mechanisms, and Optimization (EAAMO)*, Ithaca, New York, United States
- 2024-2024 **Session Chair**, International Conference on Inequality & Social Policy in South Korea, Korea Inequality Research Lab at Yonsei University, Seoul, Korea. August 2024.
- 2023-2023 **Co-organizer**, *Pre-Conference workshop on data science* at the 2023 Conference of the Society for Social Work and Research (SSWR).
- 2010-2010 **Co-Chair**, *Catalyzing Development: A New Vision for Aid Workshop* on 07/2010 in Washington D.C., Hosted by the Brookings Institute.

### **Memberships**

#### **Memberships, Offices And Committee Assignments In Professional Societies**

- 2025-ongoing Social Work AI Network (SWAN)
- 2023-ongoing Association for Computing Machinery (ACM)
- 2018-ongoing Society for Social Work and Research (SSWR)
- 2018-ongoing Association for Public Policy Analysis and Management (APPAM)
- 2017-ongoing Development Studies Association (DSA)

### **Honors and Awards**

#### **Fellowships**

- National Science Foundation (NSF) Innovations at the Nexus of Food, Water, and Energy Systems Program (InFEWS) Fellowship, 2017-2019. (\$34,000)
- Doctoral Completion Fellowship Award, Fall 2018 & Spring 2017. (\$18,438)
- Berkeley Connect Fellowship, 2017-2018. (\$22,000)

Human Rights Center Fellowship, Human Rights Center, 2016. (\$5,000)

### **Professional Awards and Honors**

- |      |  |
|------|--|
| 2025 | Honorable Mention, EAAMO 2025,<br>Digital Pulse of Development: Constructing Poverty Metrics from Social Media<br>Discourse (selected from 100+ submissions) |
| 2025 | 2025 Rutgers Innovation Award: Social Innovation, <i>Robust Spatial Poverty Mapping and<br/>Efficient Resource Allocation</i>                                |
| 2020 | 2020 Society for Social Work and Research Outstanding Social Work Doctoral<br>Dissertation Award, Washington D.C.  |
| 2025 | Gold Medalist, Forms Division, 2025 International Kukkiwon Open Cup; awarded<br>official Certificate of Award by World Taekwondo Headquarters.               |
| 2018 | National Science Foundation Research Traineeship Program (NRT) Grant   |
| 2018 | Graduate Division Summer Grant, U.C. Berkeley Graduate Division, 2018, 2016 & 2014   |
| 2017 | Development Studies Association Travel Funding   |
| 2016 | Highest Honors in Graduate Research Award, Korea Association of International<br>Development Cooperation   |
| 2014 | Social Welfare Block Grant Award, U.C. Berkeley, 2014-2015   |
| 2006 | Roy Family Scholarship, Harvard Kennedy School   |
| 2004 | National Winner of the Influencing State Policy Contest, Council on Social Work<br>Education   |
| 2002 | Daniel Sandra Scholarship, Washington University in St. Louis  |
| 1997 | Honorary Award and Scholarship for Community Services, Ewha Womans University  |