

Hanna Kim

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RESEARCH INTERESTS

Causal inference, Dyadic data analysis, Latent variable modeling, Multilevel modeling, Text data analysis in education and social sciences research

EDUCATION

Ph.D. in Educational Psychology (Quantitative Methods) 2018 – 2024

University of Wisconsin-Madison

Graduate minor in Statistics

- Dissertation: Addressing Heterogeneity in Longitudinal Intervention Effects Using a Causal Mediation Framework

M.S. in Educational Psychology (Quantitative Methods) 2018 – 2021

University of Wisconsin-Madison

- Thesis: A Latent Variable Framework for Extending the Actor-Partner Interdependence Model for Dyadic Data with Multiple Indicators

M.A. in Educational Measurement & Evaluation 2016 – 2018

Seoul National University (Seoul, South Korea)

- Thesis: The Effect of High School Entrance Plan on Private Tutoring of Middle School Students: Focusing on the Use of Propensity Scores and Multivariate Multilevel Modeling

B.A. in Education 2012 – 2016

Seoul National University (Seoul, South Korea)

Minor in German Language and Literature

EMPLOYMENT

Assistant Professor, Psychology Department, University of California, Santa Cruz 2024 – present

PUBLICATIONS

Kim, H., & Kim, J.-S. (2024). Extending the actor-partner interdependence model to accommodate multivariate dyadic data using latent variables. *Psychological Methods*, 29(5), 890-918. <https://doi.org/10.1037/met0000531>

- Kim, H., & Kim, J.-S.** (2024). Assessing the effects of a yearly renewable education program through causal mediation analysis. *Quantitative Psychology: The 88th Annual Meeting of the Psychometric Society, College Park, MD, USA* (pp. 155-164). Springer.
- Molfenter, T., **Kim, H.**, Kim, J.-S., Kisicki, T., Knudsen, H. K., Horst, J., Brown, R., Madden, L. M., Toy, A., Haram, E., & Jacobson, N. (2023). Enhancing use of medications for opioid use disorder (MOUD) through external coaching. *Psychiatric Services*, 74(3), 265-271.
<https://doi.org/10.1176/appi.ps.202100675>
- Nolan, M. B. et al. [CEC-UW, including **Kim, H.**] (2023). Relations of current and past cancer with severe outcomes among 104,590 hospitalized COVID-19 patients: The COVID EHR cohort at the University of Wisconsin. *Cancer Epidemiology, Biomarkers & Prevention*, 32(9), 12-21.
<https://doi.org/10.1158/1055-9965.EPI-22-0500>
- Molfenter, T., Jacobson, N., Kim, J.-S., Horst, J., **Kim, H.**, Madden, L. M., Brown, R., Haram, E., & Knudsen, H. K. (2023). Building medication for opioid use disorder prescriber capacity during the opioid epidemic: Prescriber recruitment trends and methods. *Journal of Substance Use and Addiction Treatment*, 147, 208975. <https://doi.org/10.1016/j.josat.2023.208975>
- Fiore, M. C. et al. [CEC-UW, including **Kim, H.**] (2022). The first 20 months of the COVID-19 pandemic: Mortality, intubation and ICU rates among 104,590 patients hospitalized at 21 United States health systems. *PLoS ONE*, 17(9): e0274571.
<https://doi.org/10.1371/journal.pone.0274571>
- Piasecki, T. M. et al. [CEC-UW, including **Kim, H.**] (2022). Smoking status, nicotine medication, vaccination, and COVID-19 hospital outcomes: Findings from the COVID EHR cohort at the University of Wisconsin (CEC-UW) study. *Nicotine & Tobacco Research*.
<https://doi.org/10.1093/ntr/ntac201>
- Kim, H., & Kim, J.-S.** (2021). Where the choice of model leads us: An empirical comparison of dyadic data analysis frameworks. In M. Wiberg, D. Molenaar, J. González, U. Böckenholt, & J.-S. Kim (Eds.), *Quantitative Psychology: The 85th Annual Meeting of the Psychometric Society, Virtual* (pp. 439-451). Springer.
https://doi.org/10.1007/978-3-030-74772-5_39
- Knudsen, H. K., Brown, R., Jacobson, N., Horst, J., Kim, J.-S., **Kim, H.**, Madden, L. M., Haram, E., & Molfenter, T. (2021). Prescribers' satisfaction with delivering medications for opioid use disorder. *Substance Abuse Treatment, Prevention, and Policy*, 16(1), 1-8.
<https://doi.org/10.1186/s13011-021-00413-7>
- Kyun, S., **Kim, H.**, & Lee, S.-Y. (2019). Analyzing the keywords of future education using text-mining methodology. *Asia-Pacific Journal of Multimedia Services Convergent with Art, Humanities, and Sociology*, 9(5), 11-23.
- Kim, N., Lee, C. D., & **Kim, H.** (2018). The effect of learner-centered instruction on the communicative competence of middle school students. *Journal of Learner-Centered Curriculum and Instruction*, 18(3), 101-118.
- Park, H., **Kim, H.**, & Hong, Y. (2017). A topic modeling analysis on the major social issues of the Student's Human Rights Ordinance in Korea. *Asian Journal of Education*, 18(4), 695-723.

CONFERENCE PRESENTATIONS

Kim, H., & Kim, J.-S. (2024, July). *Addressing Clustered Data Structures in Causal Mediation Analysis*. Paper presented at the International Meeting of the Psychometric Society (IMPS), Prague, Czech Republic.

Kim, H., & Kim, J.-S. (2024, April). *Understanding Variations in the Effects of Yearly Renewable Education Programs through Causal Mediation Analysis*. Poster presented at the Annual Meeting of the American Educational Research Association (AERA), Philadelphia, PA, U.S.

Kim, H., & Kim, J.-S. (2023, July). *A Causal Mediation Framework for Investigating Treatment Effects in Longitudinal Studies*. Paper presented at the International Meeting of the Psychometric Society (IMPS), College Park, MD, U.S.

Kim, H., & Kim, J.-S. (2023, June). *Disentangling Longitudinal Treatment Effects by Regimes: A Comparison of Selection Bias Adjustment Approaches*. Poster presented at the Modern Modeling Methods Conference (M³), Storrs, CO, U.S.

Kim, H., & Kim, J.-S. (2023, May). *A Causal Mediation Framework for Decomposing Treatment Effects in Longitudinal Studies*. Poster presented at the American Causal Inference Conference (ACIC), Austin, TX, U.S.

Kim, L.* , & Kim, H. (2023, April). *A Cross-national Study on How Gender Inequity Affects Gender Imbalance in Desiring Teaching Professions*. Paper presented at the Annual Meeting of the American Educational Research Association (AERA), Chicago, IL, U.S.

Flack, C. E., Oddleifson, C.* , Kim, H., Anderson, E.* , Twombly, T., Davis, E., Porter, J., Nosbusch, K., Klingbeil, D., & Kilgus, S. (2023, February). *Students' Academic, Social, Emotional, and Behavioral Functioning During COVID-19*. Poster presented at the National Association of School Psychologists Annual Convention (NASP), Denver, CO, U.S.

Kim, H., & Kim, J.-S. (2021, July). *Extending the Actor-Partner Interdependence Model for Analyzing Multivariate Dyadic Data Using Latent Variables*. Paper presented at the International Meeting of the Psychometric Society (IMPS), Virtual.

Kim, H., & Kim, J.-S. (2020, July). *Challenges and Strategies for Investigating Interdependence with Dyadic Data*. Poster presented at the International Meeting of the Psychometric Society (IMPS), Virtual.

Kim, N., Lee, C. D., & Kim, H. (2017, November). *The Effect of Learner-centered Instruction on the Communicative Competence of Middle School Students*. Poster presented at the 11th Korean Educational Longitudinal Study Conference, Seoul, Korea

* indicates student author

TEACHING EXPERIENCES

Instructor, PSYC 214A Multivariate Techniques for Psychology (Graduate; In-Person), Psychology Department, University of California, Santa Cruz

Winter 2025

Instructor , <i>PSYC 204 Quantitative Data Analysis</i> (Graduate; In-Person), Psychology Department, University of California, Santa Cruz	Fall 2024
Instructor , <i>ED PSYCH 763 Regression Model in Education</i> (Graduate; In-Person), Department of Educational Psychology, University of Wisconsin-Madison	Fall 2023, Summer 2022
Teaching Assistant , <i>ED PSYCH 761 Statistical Methods Applied to Education II</i> (Graduate; Virtual), Department of Educational Psychology, University of Wisconsin-Madison	Spring 2021
Teaching Assistant , <i>ED PSYCH 760 Statistical Methods Applied to Education I</i> (Graduate; Virtual), Department of Educational Psychology, University of Wisconsin-Madison	Fall 2020
Workshop Assistant , <i>Hierarchical Linear Modeling, Structural Equation Modeling</i> (Graduate; Hybrid), Educational Research Methodology Workshop, Education Research Institute, Seoul National University	Winter 2017
Teaching Assistant , <i>Advanced Statistical Method for Educational Research</i> (Graduate; In-Person), Department of Education, Seoul National University	Summer 2017
Lecture & Research Assistant , <i>Seminar in Education Statistics: Analysis of Big Data</i> (Graduate; In-Person), Department of Education, Seoul National University	Fall 2016
Lecture & Research Assistant , <i>Statistics for Educational Research</i> (Undergraduate; In-Person), <i>Multivariate Statistical Methods: HLM</i> (Graduate; In- Person); <i>Advanced Statistical Method for Educational Research</i> (Graduate; In- Person), Department of Education, Seoul National University	Spring 2016

HONORS & AWARDS

Forward in Access Award <i>McBurney Disability Resource Center, University of Wisconsin-Madison</i>	Apr 2025
Student Travel Award <i>Department of Educational Psychology, University of Wisconsin-Madison</i>	Jun 2024
Patricia and Michael Busk Travel Fellowship Award <i>School of Education, University of Wisconsin-Madison</i>	Oct 2023
Travel Award <i>Society for Causal Inference</i>	May 2023
Student Research Grants Competition Award <i>University of Wisconsin-Madison Graduate School</i>	Apr 2023
Student Travel Award <i>Department of Educational Psychology, University of Wisconsin-Madison</i>	Oct 2021

University Fellow , <i>University of Wisconsin-Madison Graduate School</i>	2018-2019; 2022-2023
Merit-based Scholarship , <i>Seoul National University</i>	Fall 2016; Spring 2017
Lecture & Research Scholarship , <i>Seoul National University</i>	Spring 2016; Fall 2017

SERVICES

Panelist , <i>First-Year Student Seminar (ED PSYCH 709)</i> , Department of Educational Psychology, University of Wisconsin-Madison	Fall 2022
Student Representative , <i>Diversity Steering Committee</i> , Department of Educational Psychology, University of Wisconsin-Madison	Summer 2021 – Summer 2022
Inclusion Organizer , <i>Diversity and Inclusion Association (DIA) Leadership Committee</i> , Department of Educational Psychology, University of Wisconsin-Madison	Fall 2020 – Spring 2021
Quantitative Methods Area Student Representative , <i>Diversity and Inclusion Association (DIA) Steering Committee</i> , Department of Educational Psychology, University of Wisconsin-Madison	Fall 2020 – Spring 2021
Graduate Student Mentor , <i>Educational Psychology Student Association</i> , Department of Educational Psychology, University of Wisconsin-Madison	Fall 2019
Workshop Committee , <i>Education Research Institute</i> , Seoul National University	Spring 2016 – Spring 2017

COMPUTER SKILLS

R, SPSS, Mplus, HLM, MLwiN, and LaTeX

PROFESSIONAL MEMBERSHIPS

American Educational Research Association (AERA), American Psychological Association (APA), Psychometric Society, Society for Causal Inference (SCI)