Jiwoo Kim

PH.D. STUDENT · QUANTITATIVE METHODS IN PSYCHOLOGY

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Education

Cornell University   *Ithaca, U.S.*
PH.D. STUDENT IN PSYCHOLOGY   *08. 2023 - current*
- Major in Psychology, Minor in Applied Statistics
- Advisor: Dr. Felix Thoemmes
- Related courses: Quantitative methods 1 & 2, Probability model and inference, Studying social inequality with data science, Linear regression

Seoul National University   *Seoul, Republic of Korea*
MA IN EDUCATION   *03. 2020 - 02. 2022*
- Major in Educational Measurement and Evaluation
- Advisor: Dr. Sun-Geun Baek
- GPA: 4.3/4.3
- Dean's list for every semester(four times)
- Master's thesis title: The effect of self-directedness on college adjustment through academic resilience
- Related courses: Causal inference, Item response theory, Advanced statistical method for educational research, HLM, SEM

Ewha Womans University   *Seoul, Republic of Korea*
BA IN EDUCATION AND PSYCHOLOGY   *03. 2016 - 02. 2020*
- Major in Education and Psychology
- Undergrad Research Advisor: Dr. Kyoung-Hye Seo
- GPA: 4.13/4.3 Summa cum laude
- Dean's list for every semester(eight times)

Research Interests

CAUSAL INFERENCE

causal mediation analysis; causal graphical model; missing data; m-DAG

STRUCTURAL EQUATION MODEL

latent class analysis; fator analysis

Professional Experience

The Korea Chamber of Commerce and Industry   *Seoul, South Korea*
SENIOR RESEARCHER   *Aug. 2022 – Mar. 2023*
- Developed National Competency Standard test items for vocational high school students.
- Applied the Rasch model to analyze test results.
- Equated tests using the bookmark method.
- Wrote policy reports on vocational education and student competency evaluation.
- Collaborated with the Ministry of Education on test development.
- Revised tests to reflect changes in the national curriculum.

Korea Institute for Research in the Behavioral Sciences   *Seoul, South Korea*
RESEARCHER   *Jan. 2022 – Jul. 2022*

- Developed test items to assess competency and morality.
- Revised and updated norms for psychological assessments.
- Provided individualized feedback to test takers.
- Analyzed personality profiles using the CPI test scale.
- Assessed predictive validity and reported results to client firms.

Brain Korea 21, Department of Education, Seoul National University   *Seoul, South Korea*
RESEARCHER   *Sep. 2021 – Jan. 2022*

- Assessed academic resilience among undergraduate students using psychometric scales.
- Supported development and validation of new measurement tools.
- Participated in educational methodology workshops.

Publications

PUBLISHED

Kim, J & Thoemmes, F. J 2025. Causal assumptions of the two-wave longitudinal mediation model. Multivariate Behavioral Research. 10.1080/00273171.2025.2443360 (Abstract)

Kim, J., Baek, J. W., Lee, H. S(co-first author)., & Choi, Y. J(second author). 2025. Development and validation of the teacher competency diagnostic scale in online learning environment for preservice teacher using scenario method. SAGE Open, 15(2). https://doi-org/10.1177/21582440251344753

Baek, S. G., **Kim, J**(corresponding author), & Park, H. 2021. Development and validation of the academic resilience scale for undergraduate students using scenario method. The SNU Journal of Education Research, 30(3), 29-57.

IN PROGRESS

Kim, J.,& Thoemmes, F, J. Graphical Criteria of Recoverability under Not Missing at Random Case
  ▶Distinguish subtypes of missing-not-at-random according to their bias occurrence using a causal graphical model

Kim, J.,& Thoemmes, F, J. Recovering Causal Effects via the Front-Door Approach
  ▶Distinguish subtypes of missing-not-at-random according to their bias occurrence using a causal graphical model

Kim, J.,& Thoemmes, F, J. Causal Assumptions for Two-Wave Longitudinal Mediation Analysis
  ▶Confirm existing assumptions for two-wave longitudinal mediation using causal graphical model

Kim, J., Thoemmes, F, J.,& Ong, A. Systematic Literature Review for Mediation Analysis
  ▶Systematically analyze current trends of conducting mediation analysis
  ▶Suggest appropriate ways for mediation analysis
  ▶OSF link: osf.io/w64xn

Kim, J.& Kim, Y. Statistical Evidence of Sex Discrimination Using Instrumental Inequality
  ▶Defined the notion of discrimination using DAG
  ▶Proved whether there is statistical evidence of discrimination utilizing instrumental variable on a discrimination case

Soleimani, A, D., **Kim, J**.& Sternberg, R, J. An Augmented Triangular Theory of the Expression of Love
  ▶Using LPA, distinguished different love expression latent profiles

Presentations

* presenting author

ORAL PRESENTATIONS

***Kim, J**., & Thoemmes, F. 2025. Graphical Criteria of Recoverability under Not Missing at Random Case . Paper: 2025 International Conference on Education Research (ICER). Seoul, South Korea

Kim, J ., Baek, J., & *Lee, H. 2025. Development of the Pre-service Teacher Competency Scale in an Online Learning Environment. Oral Presentation: American Educational Research Association, Denver, U.S.

*Kim, Y., & **Kim, J**. 2022. Statistical Evidence for Inequality: Applying Causal Restriction of Instrumental Variable. Oral Presentation: Korea Inequality Research Network Conference, Seoul, Korea.

POSTER PRESENTATIONS

***Kim, J**., & Thoemmes, F. 2025. Graphical Criteria of Recoverability under Not Missing at Random Case . Poster: 2025 American Causal Inference Conference (ACIC). Detroit, U.S.

***Kim, J**., & Thoemmes, F. 2024. Causal Assumptions of the Two-Wave Longitudinal Mediation Model . Poster: 2024 The Society of Multivariate Experimental Psychology. Ithaca, U.S.

***Kim, J**., & Kim, Y. 2024. Credible Evidence of Gender Discrimination Using Instrumental Inequality. Poster: 2024 American Causal Inference Conference (ACIC). Seattle, U.S.

***Kim, J**. 2022. Table 2 Fallacy in Latent Class Analysis. Poster: 22nd International Conference on Educational Research (ICER). Seoul, Korea.

Baek, J., ***Kim, J**., Lee, H., Choi, Y.& Kim, S. 2022. Pre-Service Teachers' Experiences and Perceptions of Teacher Preparation Programs: How Are Teachers Educated to Teach Virtually?. Poster: 22nd International Conference on Education Research (ICER). Seoul, Korea.

***Kim, J**., & Park, H. 2022. Measurement and Analysis of S University students' academic resilience. Online Poster: SNU BK21 Seminar

***Kim, J**., Nam, C., & Seo, Y. 2017. A Narrative Exploration of the EBS Internet Lecture Experience of Low-Income High School Students. Poster: Korea Educational Research Society, Daejeon, Korea.

Awards, Fellowships, & Grants

2024	**Appenzeller Memorial Fellowship**, Ewha Foundation	*3,000$*
2023	**Sage Fellowship**, Cornell University	*64,186$*
2021	**Scholarship**, Korea Association of University Women	
	Excellence RA Award, Seoul National University Gwanak Residence Hall	
2019, 2020	**Career Building Scholarship**, Ewha Womans University	
2019	**Liberal Effective Artistic Practice Project Grant**, Ewha Womans University	
2018, 2019	**Humanities 100 Years Scholarship**, Korea Student Aid Foundation	
2017, 2018	**Wonju Talent Development Award**, Wonju Province	
2016	**Hyundai Motor Hope Scholarship**, Hyundai Foundation	

Mentoring

Harvard Summer Student Research Program   *Harvard University*

RESEARCH MENTOR   *June 2024 – August 2024*

- Supported equitable access to research for underprivileged students worldwide.
- Guided students in formulating their own research questions.
- Introduced students to causal inference using curated academic literature.

Gwanak Residence Hall   *Seoul National University*

RESIDENT ADVISOR   *June 2020 – December 2021*

- Advised undergraduate students on adjusting to university life.
- Planned and organized residence hall festivals.
- Provided assistance to students during COVID-19 isolation.
- Supported international students facing psychological challenges.

Dream School for Children of Traffic Accident Victims *Hyundai Motor*

Dream Mentor *Spring 2016 – Fall 2016*

- Designed individualized career development programs.
- Mentored a child of traffic accident victims to overcome academic challenges.
- Facilitated opportunities for students to meet inspiring role models.

Teaching Experience

Quantitative Methods-2 *Cornell University, Ithaca*

Guest Lecturer *Spring 2025*

- Delivered a guest lecture on causal mediation analysis.

Causal Mediation Analysis *GESIS Workshop Series*

Teaching Assistant *Fall 2024*

- Assisted students with using R for mediation modeling.
- Provided relevant academic papers and resources during the course.
- Facilitated class discussions and supported student engagement.

Multiple Regression Course (Center for Teaching and Learning) *Seoul National University*

Teaching Assistant *Spring 2021*

- Guided students in applying regression techniques using R.
- Provided tailored supplementary materials for diverse learning needs.

Moral Education *Sahmyook Middle School*

Practicing Teacher *Spring 2019*

- Mentored middle school students in moral and ethical reasoning.
- Implemented flipped learning strategies in lesson planning.

Mathematics *Samsung Dream Class*

Afterschool Teacher *Spring 2017 – Fall 2018*

- Taught mathematics to underprivileged middle school students.
- Delivered a special lecture on college life and career pathways.

Korean for North Korean Defectors *Yeomyung School*

Afterschool Teacher *Spring 2018*

- Prepared students for the Korean fluency test.
- Advised a delinquent student as a homeroom teacher.
- Organized a career lecture featuring professionals from various fields.

English *Doksan High School*

Afterschool Teacher *Spring 2017*

- Taught English to students from low-income families.

Korean as a Second Language *Korea Student Aid Foundation*

Tutor *Fall 2016*

- Provided one-on-one Korean language tutoring to a multicultural student.

Outreach & Professional Development

Statistical Language

▶ R, SPSS, Amos, LaTeX

Language

▶ Native: Korean

▶ Fluent: English

Licensure

▶ Teacher's Certificate for the Secondary School Teacher of Moral Education, Ministry of Education, Republic of Korea.

Service

▶ Reviewer - Psychological Methods (2025)

▶ Reviewer - Scientific Studies of Readings (2025)

▶ Volunteer - ACIC 2025 (American Causal Inference Conference 2025)

▶ Student Council in Ewha Womans University(2016-2018)

▶ Leader of Educational Academic Society in Ewha Womans University(2016-2017)