

Jiwoo Kim

PH.D. STUDENT · QUANTITATIVE METHODS IN PSYCHOLOGY

☎ +1(607) 220-7446 | ✉ jk2759@cornell.edu | 🔗 [linkedin.com/in/jiwoo-kim-a775b0204/](https://www.linkedin.com/in/jiwoo-kim-a775b0204/)

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; factor 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

RESEARCHER

Seoul, South Korea

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

RESEARCHER

Seoul, South Korea

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)

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.

Kim, J., Baek, J. W., Lee, H. S(co-first author)., & Choi, Y. J(second author). Development and Validation of the Teacher Competency Diagnostic Scale in Online Learning Environment for Preservice Teacher Using Scenario Method (In press)

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

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

RESEARCH MENTOR

- 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.

Harvard University
June 2024 – August 2024

Gwanak Residence Hall

RESIDENT ADVISOR

- 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.

Seoul National University
June 2020 – December 2021

Dream School for Children of Traffic Accident Victims

DREAM MENTOR

- 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.

Hyundai Motor
Spring 2016 – Fall 2016

Teaching Experience

Quantitative Methods-2

GUEST LECTURER

- Delivered a guest lecture on causal mediation analysis.

Cornell University, Ithaca
Spring 2025

Causal Mediation Analysis

TEACHING ASSISTANT

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

*GESIS Workshop Series
Fall 2024*

Multiple Regression Course (Center for Teaching and Learning)

TEACHING ASSISTANT

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

*Seoul National University
Spring 2021*

Moral Education

PRACTICING TEACHER

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

*Sahmyook Middle School
Spring 2019*

Mathematics

AFTERSCHOOL TEACHER

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

*Samsung Dream Class
Spring 2017 – Fall 2018*

Korean for North Korean Defectors

AFTERSCHOOL TEACHER

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

*Yeomyung School
Spring 2018*

English

AFTERSCHOOL TEACHER

- Taught English to students from low-income families.

*Doksan High School
Spring 2017*

Korean as a Second Language

TUTOR

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

*Korea Student Aid Foundation
Fall 2016*

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)