

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; instrumental variable

STRUCTURAL EQUATION MODEL

latent class analysis; factor analysis

Professional Experience

Senior Researcher , The Korea Chamber of Commerce and Industry

08. 2022 -

03. 2023

- Developed National Competency Standard test items for vocational high school students
- Used Rasch model to analyze the test result
- Equated tests using the bookmark method
- Wrote policy reports for vocational education and the way to evaluate students' competencies
- Conferred about upcoming test formula with the Ministry of Education
- Revised the test reflecting the changed national education curriculum

Researcher, Korea Institute for Research in the Behavioral Sciences

- 01. 2022 -
 - Developed competency and morality test items
 - Revised and updated norms of tests
- 07. 2022
 - Provided savvy and individualized feedback to test takers
 - Analyzed personality profile based on CPI test scale
 - Calculated predictive validity and provided it to test taker firms

Researcher. Brain Korea 21, Department of Education, Seoul National University

- 09. 2021 -
 - Analyzed current academic resilience competency of undergraduate school students by using scales
- 01. 2022
 - Assisted advisor in developing and validating scales
 - Completed educational methodology workshops

Researcher, Jeju Province

- 01. 2021 -
 - Proposed a new educational welfare policy for lower-income families
 - Set criteria for welfare beneficiaries
- 05. 2021
 - Attended meetings for educational welfare budget adjustment
 - Wrote policy reports

Research Assistant, Chungnam National University

- 01. 2021 -
 - Conducted Focus Group Interviews
- 03. 2021
 - Developed Science Experts' Competency Items in situational judgement test form
 - Analyzed previous studies

Publications

PUBLISHED

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

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.

UNDER REVIEW

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

- ▶ Have done focus group interviews with both pre-service teachers and in-service teachers
- ▶ Surveyed 600 pre-service teachers to prove validity
- ▶ Conducted confirmatory factor analysis

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

REVIEWER

► Psychological Methods

Presentations

** presenting author*

ORAL PRESENTATIONS

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.(Upcoming)

*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. (Upcoming)

***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. (Upcoming)

***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

2020 **Kang's Grant**, Kang's institution

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

June 2024 -August 2024	Harvard Summer Student Research Program , Research Mentor <ul style="list-style-type: none">• Democratize access to research for underprivileged students around the globe• Help students find research questions• Guide students to learn causal inference using literature that a mentor chose	Harvard University
June 2020 -Dec 2021	Gwanak Residence Hall , Resident Advisor <ul style="list-style-type: none">• Advised undergraduate students to well adapt in college• Prepared Gwanak residence hall festival• Assisted students who got Covid-19• Advised international students to overcome psychological problems	Seoul National Univ
Spring 2016 -Fall 2016	Dream School for Children of Traffic Accident Victims , Dream Mentor <ul style="list-style-type: none">• Planned an individualized career development program• Assisted a child of traffic accident victims in overcoming academic difficulties• Provided a child of traffic accident victims opportunities to meet one's role model	Hyundai Motor

Teaching Experience

Fall 2024	Causal Mediation Analysis , Teaching Assistant <ul style="list-style-type: none">• Assisted students in utilizing R program• Provided relevant papers during the lecture• Led students having discussion	GESIS Workshop Series
Spring 2021	Multiple Regression Course: Center of Teaching and Learning , Teaching Assistant <ul style="list-style-type: none">• Assisted students in utilizing R program• Provided appropriate supplementary material for each student	Seoul National Univ
Spring 2019	Moral education , Practicing Teacher <ul style="list-style-type: none">• Mentored middle school students• Taught students ethics using flipped learning	Sahmyook middle school
Spring 2017 - Fall 2018	Math , Afterschool Teacher <ul style="list-style-type: none">• Taught low-income students mathematics• Delivered students a special lecture about career and college life	Samsung Dream Class
Spring 2018	Korean for North Korean Defectors , Afterschool Teacher <ul style="list-style-type: none">• Taught North Korean defector students Korean to take the Korean Fluency test• Advised a delinquent student as a classroom teacher• Planned a special career lecture with experts from diverse fields	Yeomyeong school
Spring 2017	English , Afterschool Teacher <ul style="list-style-type: none">• Taught low-income students English	Doksan high school
Fall 2016	Korean as Second Language , Tutor <ul style="list-style-type: none">• Taught a multicultural student Korean	Korea Student Aid Foundation

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.

EXTRA CURRICULAR ACTIVITIES

- ▶ Curriculum Developing Club(2018-2019)
- ▶ Student Council in Ewha Womans University(2016-2018)
- ▶ Leader of Educational Academic Society in Ewha Womans University(2016-2017)