

Jiwoo Kim

PH.D. STUDENT · QUANTITATIVE METHODS IN PSYCHOLOGY

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Education

Cornell University

Ithaca, U.S.

PH.D. STUDENT IN HUMAN DEVELOPMENT

08. 2023 - current

- Major in Developmental Psychology
- 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

instrumental variable; causal mediation analysis; causal graphical model; sensitivity analysis

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
- 07. 2022
 - Revised and updated norms of tests
 - 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
- 05. 2021
 - Set criteria for welfare beneficiaries
 - 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. 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

Kim, Y. & **Kim, J.** Causal Interpretation of Algorithmic Fairness

- ▶ Defined the notion of existing algorithmic fairness measurement methods using DAG

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.

*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.**, & 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 Educational 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 **Harvard Summer Student Research Program**, Research Mentor
-August 2024 • 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

Gwanak Residence Hall, Resident Advisor

- June 2020 • Advised undergraduate students to well adapt in college
-Dec 2021 • Prepared Gwanak residence hall festival
• Assisted students who got Covid-19
• Advised international students to overcome psychological problems

Seoul National Univ

Dream School for Children of Traffic Accident Victims, Dream Mentor

- Spring 2016 • Planned an individualized career development program
-Fall 2016 • 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

Causal Mediation Analysis, Teaching Assistant

- Fall 2024 • Assisted students in utilizing R program
• Provided relevant papers during the lecture
• Led students having discussion

GESIS Workshop

Series

Multiple Regression Course: Center of Teaching and Learning, Teaching Assistant

- Spring 2021 • Assisted students in utilizing R program
• Provided appropriate supplementary material for each student

Seoul National Univ

Moral education, Practicing Teacher

- Spring 2019 • Mentored middle school students
• Taught students ethics using flipped learning

Sahmyook middle

school

Math, Afterschool Teacher

- Spring 2017 • Taught low-income students mathematics
- Fall 2018 • Delivered students a special lecture about career and college life

Samsung Dream

Class

Korean for North Korean Defectors, Afterschool Teacher

- Spring 2018 • 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

Yeomyeng school

English, Afterschool Teacher

- Spring 2017 • Taught low-income students English

Doksan high school

Korean as Second Language, Tutor

- Fall 2016 • Taught a multicultural student Korean

Korea Student Aid

Foundation

Outreach & Professional Development

STATISTICAL LANGUAGE

- R, SPSS, Amos

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)