

Jiwoo Kim

PH.D. STUDENT · QUANTITATIVE METHODS IN PSYCHOLOGY

☎ +1(607) 220-7446 | ✉ jk2759@cornell.edu | 🌐 jk2759@cornell.edu

Education

Cornell University

New York, U.S.

PH.D. STUDENT IN HUMAN DEVELOPMENT

08. 2023 - recently

- Major in Developmental Psychology
- Advisor: Dr. Felix Thoemmes
- Related courses: Quantitative methods 1 & 2, Probability model and inference, Studying social inequality with data science

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 -

07. 2022

- Developed competency and morality test items
- 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
 - 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

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 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, 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 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	Harvard Summer Student Research Program , Research Mentor	
-August 2024	<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
	Gwanak Residence Hall , Resident Advisor	
June 2020	<ul style="list-style-type: none"> Advised undergraduate students to well adapt in college 	
-Dec 2021	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Planned an individualized career development program 	
-Fall 2016	<ul style="list-style-type: none"> 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 (Upcoming), Teaching Assistant <ul style="list-style-type: none"> Assist students in utilizing R program 	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 	Yeomyeng 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

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)