

# Jiwoo Kim

PH.D. STUDENT · QUANTITATIVE METHODS IN PSYCHOLOGY

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## Education

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### 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

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### CAUSAL INFERENCE

causal mediation analysis; causal graphical model; missing data; instrumental variable

### STRUCTURAL EQUATION MODEL

latent class analysis; factor analysis

## Professional Experience

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### Senior Researcher , The Korea Chamber of Commerce and Industry

- 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
08. 2022 -  
03. 2023

**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

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### 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](https://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

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*\*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.**, & 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

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 **Gwanak Residence Hall**, Resident Advisor  
-Dec 2021

- 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

## **Dream School for Children of Traffic Accident Victims**, Dream Mentor

Spring 2016  
- Fall 2016

- 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

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### **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  
- Fall 2018

- Taught low-income students mathematics
- 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

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### STATISTICAL LANGUAGE

► R, SPSS, Amos,  $\text{\LaTeX}$

### 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

#### REVIEWER

► Reviewer - Psychological Methods (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)