

# Jiwoo Kim

PH.D. CANDIDATE · 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; m-DAG

### STRUCTURAL EQUATION MODEL

latent class analysis; factor analysis

## Professional Experience

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### 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

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### PUBLISHED

**Kim, J** & Thoemmes, F. J 2025. Causal assumptions of the two-wave longitudinal mediation model. *Multivariate Behavioral Research*. <https://doi-org/10.1080/00273171.2025.2443360> (Abstract)

**Kim, J.**, Baek, J. W., Lee, H. S(co-first author)., & Choi, Y. J(second author). 2025. Development and validation of the teacher competency diagnostic scale in online learning environment for preservice teacher using scenario method. *SAGE Open*, 15(2). <https://doi-org/10.1177/21582440251344753>

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 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

Soleimani, A, D., **Kim, J.**& Sternberg, R, J. An Augmented Triangular Theory of the Expression of Love

- ▶ Using LPA, distinguished different love expression latent profiles

## Presentations

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\* *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

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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

2016 **Hyundai Motor Hope Scholarship**, Hyundai Foundation

## Mentoring

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### Harvard Summer Student Research Program

Harvard University

#### RESEARCH MENTOR

June 2024 – August 2024

- 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.

### Gwanak Residence Hall

Seoul National University

#### RESIDENT ADVISOR

June 2020 – December 2021

- 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.

## **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**

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### **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*

## **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.

### **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)