

Kyung Yong Kim

CONTACT INFORMATION Educational Research Methodology 336-334-3477
School of Education 232 k_kim9@uncg.edu
University of North Carolina at Greensboro
Greensboro, NC 27412

EDUCATION **University of Iowa**, Iowa City, Iowa

Ph.D., Educational Measurement and Statistics Aug 2017

- Dissertaion: IRT linking methods for the bifactor model: A special case of the two-tier item factor analysis model
- Minor: Computer Science
- Academic Advisor: Won-Chan Lee, Ph.D.

M.S., Statistics May 2012

Korea University, Seoul, South Korea

B.S., Statistics Aug 2003

PROFESSIONAL EXPERIENCE **University of North Carolina at Greensboro**

Associate Professor Aug 2023 - Present

Assistant Professor Aug 2017 - June 2023

SK Telecom, Seoul, South Korea

Manager, Portal Service Team Jan 2004 - Jul 2008

PUBLICATIONS **Peer-Reviewed Journals**

** indicates graduate student at the time of publication.*

1. Nasibli, N., Su, J., & **Kim, K.** (2026). Chic meets tech: A text mining approach to unlock the Metaverse's fashion potential. *International Journal of Fashion Design, Technology and Education*. 1-14.
2. **Kim, K.**, *Kim, S., & *Lee, H. (2026). The impact of latent density misspecification on item response theory equating methods. *Applied Psychological Measurement*. Advanced Online Publication.
3. *Lee, H., & **Kim, K.** (2025). A comparison of anchor selection strategies for DIF analysis. *Journal of Educational Measurement*, *62*, 311-344.

4. Specker, E., Cotter, K. N., & **Kim, K.** (2025). The next step for the VAIK: An item-focused analysis. *Psychology of Aesthetics, Creativity, and the Arts*, *19*, 684-695.
5. Kelly, S., Croucher, S. M., **Kim, K.**, Permyakova, T., Turdubaeva, E., Eskiçorapçi, N., Stanaliev, G., Orunbekov, B., & Winchester, D. (2024). A multi-nation validation portfolio for a willingness to communicate measure. *Journal of Intercultural Communication Research*, *53*, 121-142.
6. Nasibli, N., Su, J., & **Kim, K.** (2024). Exploring the role of the Metaverse in the fashion industry: A text mining approach. *Proceedings of the 2024 American Marketing Association (AMA) Winter Conference*. St. Pete Beach, FL.
7. Park, S., **Kim, K.**, & Lee, W. (2023). Classification consistency and accuracy for multiple measures with the simple structure MIRT model. *Journal of Educational Measurement*, *60*, 106-125.
8. *Cotter, K. N., *Chen, D. F., *Christensen, A. P., **Kim, K.**, & Silvia, P. (2023). Item response theory and differential item functioning analysis of the aesthetic fluency scale. *Psychology of Aesthetics, Creativity, and the Arts*, *17*, 358-368.
9. **Kim, K.** (2022). Item response theory true score equating for the bifactor model under the common-item nonequivalent groups design. *Applied Psychological Measurement*, *46*, 479-493.
10. Kelly, S., Croucher, S. M., **Kim, K.**, Permyakova, T., Turdubaeva, E., Rocker, K. T., Eskiçorapçi, N., Stanaliev, G., Orunbekov, B., & Rimkeeratikul, S. (2022). A general math anxiety measure. *Education Sciences*, *12*, 370.
11. *Strachan, T., *Cho, J., **Kim, K.**, Willse, J. T., Chen, S-H., Ip, E. H., Ackerman, T. A., & Weeks, J. P. (2021). Using projection method in vertical scaling when construct shift is present. *Journal of Educational Measurement*, *58*, 211-235.
12. **Kim, K.**, Park, S., & Lee, W. (2021). Interval estimation procedures for true scores of a test composed of polytomous items: An application of the multinomial error model. *Psychological Methods*, *26*, 343-356.
13. **Kim, K.**, & *Cho, U. (2020). Approximating bifactor IRT true-score equating with a projective item response model. *Applied Psychological Measurement*, *44*, 215-218.
14. **Kim, K.** (2020). Two IRT fixed parameter calibration methods for the bifactor model. *Journal of Educational Measurement*, *57*, 29-50.

15. **Kim, K.** (2019). A comparison of the separate and concurrent calibration methods for the full-information bifactor model. *Applied Psychological Measurement, 43*, 512-526.
16. **Kim, K.**, Lim, E., & Lee, W. (2019). A comparison of the relative performance of four IRT models on equating passage-based tests. *International Journal of Testing, 19*, 248-269.
17. **Kim, K.**, & Lee, W. (2018). Interval estimation procedures for weighted composite scores. *Journal of Educational Measurement, 50*, 152-172.

Appointment to UNCG

18. **Kim, K.**, & Lee, W. (2017). Impact of three factors on the recovery of item parameters for the three-parameter logistic model. *Applied Measurement in Education, 30*, 228-242.

Unpublished Manuscript

1. Lee, W., **Kim, K.**, Wang, T., Kim, S., & Brennan, R. L. (2021). *A strong true-score model for test scores based on polytomous items*. Unpublished manuscript.

Manuscripts Under Review

1. **Kim, K.** (under review, 2nd round). Asymptotic standard errors of the classification consistency index under item response theory.
2. *Seo, Y., Reifsteck, E., & **Kim K.** (under review). Advancing athletic identity measurement: Application of the Rasch rating scale model.

PRESENTATIONS Peer-Reviewed Presentations

* indicates graduate student at the time of presentation.

1. *Kim, S., & **Kim, K.** (April, 2024). *Linking scales using the measurement alignment method for the simple-structure MIRT model*. Paper presented at the annual meeting of the National Council on Measurement in Education, Denver, CO.
2. *Kim, S., & **Kim, K.** (April, 2024). *A comparison of robust linking methods with multiple outlying common items*. Paper presented at the annual meeting of the National Council on Measurement in Education, Philadelphia, PA.

3. *Nasibli, N., Su, J., & **Kim, K.** (Feb, 2024). *Exploring the role of the metaverse in the fashion industry: A text mining approach*. Paper presented at the American Marketing Association Winter Academic Conference, St. Pete Beach, FL.
4. *Lee, H., *Smith, N., *Someshwar, S., *Kim, S., & **Kim, K.** (2023, February). *Investigating the impact of COVID-19 on student subgroups in 2019-2022*. Paper presented at the annual meeting of the North Carolina Association for Research in Education, Greensboro, NC.
5. *Someshwar, S., *Lee, H., *Smith, N., *Kim, S., & **Kim, K.** (2023, February). *Item parameter drift analysis*. Paper presented at the annual meeting of the North Carolina Association for Research in Education, Greensboro, NC.
6. *Lee, H., & **Kim, K.** (2022, April). *A comparison of anchor selection strategies for DIF analysis*. Paper presented at the annual meeting of the National Council on Measurement in Education, San Diego, CA.
7. *Lee, H., & **Kim, K.** (2022, April). *Anchor selection strategies using multiple-group categorical CFA*. Paper presented at the annual meeting of the National Council on Measurement in Education, San Diego, CA.
8. *Kim, S., & **Kim, K.** (2021, June). *A comparison study of linking methods including measurement alignment for mixed-format tests*. Paper presented at the annual meeting of the National Council on Measurement in Education.
9. *Lee, H., & **Kim, K.**, Suh, H., & Sireci, S. (2021, June). *Evaluating computer-based test accommodation for students with disabilities using DIF methods*. Paper presented at the annual meeting of the National Council on Measurement in Education.
10. **Kim, K.**, & *Cho, U. (2020, April). *Bifactor item response theory true score equating for passage-based tests under nonequivalent groups*. The annual meeting of the National Council on Measurement in Education, San Francisco, CA. (Conference canceled)
11. Park, S., **Kim, K.**, Lee, W., & Aloe, A. M. (2020, April). *Classification consistency and accuracy on multiple measures by using simple structure multidimensional item response theory model*. The annual meeting of the American Educational Research Association, San Francisco, CA. (Conference canceled)

12. **Kim, K.**, & Park, S. (2019, April). *The impact of estimation procedures for latent-variable distributions on IRT linking*. Paper presented at the annual meeting of the National Council on Measurement in Education, Toronto, ON.
13. **Kim, K.**, & Lee, W. (2018, April). *A comparative study of three linking methods for the bifactor model*. Paper presented at the annual meeting of the National Council on Measurement in Education, New York, NY.
14. Shumin, J., **Kim, K.**, & Lee, W. (2018, April). *Examining item response theory scoring methods for mixed-format multistage tests*. Paper presented at the annual meeting of the National Council on Measurement in Education, New York, NY.
15. Park, S., **Kim, K.**, Ansley, T., & Aloe, A. (2018, April). *Classification consistency and accuracy in multiple measures using item response theory*. Paper presented at the annual meeting of the National Council on Measurement in Education, New York, NY.

Appointment to UNCG

16. **Kim, K.**, & Lee, W. (2017, April). *A general procedure for constructing intervals for various psychometric indices using MCMC*. Paper presented at the annual meeting of the National Council on Measurement in Education, San Antonio, TX.
17. **Kim, K.**, Park, S., Choi, J., & Seo, H. (2017, April). *Multiple-group calibration in SAS: The IRT procedure and SAS/IML*. SAS Global Forum 2017, Orlando, FL.
18. **Kim, K.**, & Lee, W. (2016, July). *Interval estimation procedures for polytomously-scored items*. Paper presented at the annual meeting of the International Meeting of the Psychometric Society, Asheville, NC.
19. **Kim, K.**, & Lee, W. (2015, July). *Interval estimation procedures under the compound binomial error model*. Paper presented at the annual meeting of the International Meeting of the Psychometric Society, Beijing, China.
20. **Kim, K.**, Lim, E., & Lee, W. (2015, April). *MIRT observed and true score equating for passage-based tests*. Paper presented at the annual meeting of the National Council on Measurement in Education, Chicago, IL.

21. Zhang, M., Kim, H., **Kim, K.**, Lee, W., Lim, E., & Brennan, R. L. (2015, April). *Investigating three IRT perspectives on equating testlet-based tests*. Paper presented at the annual meeting of the National Council on Measurement in Education, Chicago, IL.
22. Lim, E., **Kim, K.**, & Lee, W. (2015, April). *Model selection methods for passage based tests*. Presented at the Annual Meeting of the National Council on Measurement in Education, Chicago, IL.
23. **Kim, K.**, & Lee, W. (2014, July). *Recovery of item parameters under various IRT item calibration methods*. Paper presented at the annual meeting of the International Meeting of the Psychometric Society, Madison, WI.

Invited Presentations

* indicates graduate student at the time of presentation.

1. *Davis, J. R., *Yumsek, M., **Kim, K.**, & Willse, J. T. (2018, October) *A Mode comparability study on North Carolina's EOG test: English Language Arts and Reading Grade 7*. Presented at the LEA/Charter School Testing Directors/Coordinators Meeting, Raleigh, NC.

GRANTS AND CONTRACTS

Externally Funded

1. **Kim, K.**, & Henson, R. A. (July 2024 - June 2026). Special projects in development and maintenance of statewide assessments. *North Carolina Department of Public Instruction*, Lead PI.
2. **Kim, K.**, & Henson, R. A. (July 2022 - June 2024). Special projects in development and maintenance of statewide assessments. *North Carolina Department of Public Instruction*, Lead PI.
3. **Kim, K.**, & Henson, R. A. (July 2021 - June 2022). Special projects in development and maintenance of statewide assessments. *North Carolina Department of Public Instruction* Lead PI.
4. Willse, J. T. , & **Kim, K.** (July 2020 - June 2021). Special projects in development and maintenance of statewide assessments. *North Carolina Department of Public Instruction*, PI.
5. Willse, J. T. , & **Kim, K.** (July 2019 - June 2020). Special projects in development and maintenance of statewide assessments. *North Carolina Department of Public Instruction*, PI.

Appointment to UNCG

6. **Kim, K.** (2016). *Multiple-group concurrent calibration under the three-parameter logistic model*. National Conference of Bar Examiners. (\$6,000, Covington Award).

RESEARCH
EXPERIENCE

OAERS, University of North Carolina at Greensboro

NC Department of Public Instruction Aug 2017 - Present

CASMA, University of Iowa

Redesigned SAT Equating Oct 2015 - Jul 2017

Redesigned PSAT Equating Oct 2015 - Jul 2017

Multistate Bar Examination Equating Mar 2015 - Oct 2016

Multistate Bar Examination Psychometric Procedures
Sep 2015 - Aug 2016

SAT Equating Jun 2013 - Sep 2015

Department of Statistics, University of Iowa

Consulting for the National Advanced Driving Simulator
Jan 2012 - May 2012

GRADUATE
LEVEL COURSES
TAUGHT

University of North Carolina at Greensboro

ERM 604: Methods of Educational Research

ERM 669/769: Item Response Theory

ERM 681/781: Design and Analysis of Educational Experiments

ERM 682/782: Multivariate Analysis

ERM 685/785: R for Education and Social Sciences

ERM 731: Structural Equation Modeling in Education

ERM 734: Test Equating

ERM 735: Multidimensional Item Response Theory

ERM 745: Test Equating

ERM 771: Advanced Item Response Theory

PROFESSIONAL
SERVICE

University of North Carolina at Greensboro

Graduate School Dean Search Committee Sep 2022 - Jan 2023

School of Education, University of North Carolina at Greensboro

SOE Teaching Excellence Award Committee Jan 2022 - May 2023

SOE Faculty Access and Equity Committee Aug 2021 - May 2023

SOE Faculty Council Aug 2018 - May 2021

SOE International Committee Oct 2017 - Aug 2020

Educational Research Methodology Program, University of North Carolina at Greensboro

Chair of ERM Faculty Search Committee Oct 2024 - Feb 2025

Curriculum Committee Feb 2024 - Present

Graduate Program Director Aug 2019 - Present

Annual Faculty Review Committee 2019, 2020, 2021

National Council on Measurement in Education (NCME)

Chair of Contemporary Issues in Scaling, Linking, and Equating (SLE)
SIGIMIE Apr 2023 - Apr 2024

Vice Chair of Contemporary Issues in Scaling, Linking, and Equating
(SLE) SIGIMIE Apr 2022 - Apr 2023

Jason Millman Award Committee 2020 - 2023

Journal Editorial Board

Review of Communication 2025 - Present

Frontiers in Psychology and Frontiers in Applied Mathematics and
Statistics Oct 2021 - Present

Invited Journal Reviewer

Journal of Educational Measurement

Educational Measurement: Issues and Practices

Psychometrika

Applied Psychological Measurement

Educational and Psychological Measurement
Journal of Educational and Behavioral Statistics
British Journal of Mathematical and Statistical Psychology
Frontiers in Psychology
Studies in Educational Evaluation
Journal of Intercultural Communication Research
Statistica Neerlandica

AWARDS

National Conference of Bar Examiners

Joe E. Covington Award 2016

College of Education, University of Iowa

Blommers/Hieronymus/Feldt Fellowship 2015, 2016

Audrey Qualls Travel Award 2014, 2016

The Office of the Dean Travel Award 2014, 2016

Department of Statistics, University of Iowa

Allen T. Craig Award (Best teaching assistant of the year) 2012

**PROFESSIONAL
AFFILIATIONS**

- National Council on Measurement in Education (NCME)
- American Educational Research Association (AERA)
- Korean-American Educational Research Association (K-AERA)