Kyung Yong Kim

CONTACT INFORMATION	Department of Educational Research Methodology	336-334-3471
	School of Education	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

EMPLOYMENT HISTORY   **SK Telecom, Seoul, South Korea**

Manager, Portal Service Team   Jan 2004 - Jul 2008

PUBLICATIONS   **Peer-Reviewed Journals**

1. **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.

2. **Kim, K.**, & Lee, W. (under review). Interval estimation procedures for weighted composite scores.

3. **Kim, K.**, Lim, E., & Lee, W. (under review). Equating passage-based tests: The impact of four IRT models.

Research Reports

1. Lee, W., Malatesta, J., Brennan, L. R., Kim, H., **Kim, K.**, & Jing, S. (2016). *Review of current psychometric procedures for the Multistate Bar Examination.* Report submitted to the National Conference of Bar Examiners.

2. Malatesta, J., **Kim, K.**, Jing, S., Lee, W., & Brennan, L. R. (2016). *Replication of the February and July 2016 Multistate Bar Examination Equating.* Report submitted to the National Conference of Bar Examiners.

3. Lee, W., Brennan, L. R., **Kim, K.**, Lim, E., & Malatesta, J. (2015). *Replication of the February and July 2015 Multistate Bar Examination Equating.* Report submitted to the National Conference of Bar Examiners.

4. Lee, W., Brennan, L. R., **Kim, K.**, & Lim, E. (2015). *Replication of the July 2014 Multistate Bar Examination Equating.* Report submitted to the National Conference of Bar Examiners.

Externally Funded Research Projects

1. **Kim, K.**, & Lee, W. (2016). *Multiple-group concurrent calibration under the three-parameter logistic model* (2016 Covington Award). Madison, WI: National Conference of Bar Examiners.

PRESENTATIONS

1. **Kim, K.**, & Lee, W. (2017). *A general procedure for constructing intervals for various psychometric indices using MCMC.* National Council on Measurement in Education, San Antonio, TX.

2. **Kim, K.**, Park, S., Choi, J., & Seo, H. (2017). *Multiple-group calibration in SAS: The IRT procedure and SAS/IML.* SAS Global Forum 2017, Orlando, FL.

3. **Kim, K.**, & Lee, W. (2016). *Interval estimation procedures for polytomously-scored items.* Paper presented at the annual meeting of the International Meeting of the Psychometric Society, Asheville, NC.

4. **Kim, K.**, & Lee, W. (2015). *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.

5. **Kim, K.**, Lim, E., & Lee, W. (2015). *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.

6. Zhang, M., Kim, H., **Kim, K.**, Lee, W., Lim, E., & Brennan, R. L. (2015). *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.

7. Lim, E., **Kim, K.**, & Lee, W. (2015). *Model selection methods for passage based tests.* Presented at the Annual Meeting of the National Council on Measurement in Education, Chicago, IL.

8. **Kim, K.**, & Lee, W. (2014). *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.

RESEARCH EXPERIENCE

CASMA, University of Iowa

Redesigned SAT Equating   Oct 2015 - July 2017
- Supervisors: Dr. Robert L. Brennan, Dr. Won-Chan Lee
- Conducted equating replication for multiple administrations

Redesigned PSAT Equating   Oct 2015 - July 2017
- Supervisors: Dr. Robert L. Brennan, Dr. Won-Chan Lee
- Conducted equating replication for multiple administrations

Multistate Bar Examination Equating   Mar 2015 - Oct 2016
- Supervisors: Dr. Won-Chan Lee, Dr. Robert L. Brennan
- Conducted replication of IRT calibration, linking, and equating based on data from multiple administrations
- Co-wrote the final report

Multistate Bar Examination Psychometric Procedures

Sep 2015 - Aug 2016
- Supervisor: Dr. Won-Chan Lee
- Reviewed the current psychometric properties and various other aspects of the Multistate Bar Examination
- Made recommendations concerning how to potentially refine and improve the psychometric procedures
- Wrote the psychometric procedures section for the final report

SAT Equating
- Supervisors: Dr. Robert L. Brennan, Dr. Won-Chan Lee
- Conducted equating replication for multiple administrations
- Co-wrote the final report

Department of Statistics, University of Iowa

Consulting for the National Advanced Driving Simulator

Jan 2012 - May 2012
- Supervisor: Dr. Rhonda DeCook
- Investigated factors that affect the ability of vehicle drivers to see oncoming motorcycles

TEACHING EXPERIENCE	**Department of Statistics, University of Iowa**

Teaching Assistant Summer 2012

- Course: Statistics for Business
- Instructor: Dr. Osnat Stramer

Teaching Assistant Spring 2012, Spring 2013

- Course: Probability and Statistics for Engineering and Physical Sciences
- Instructor: Dr. Matthew Bognar

Teaching Assistant Spring 2011, Fall 2011

- Course: Probability and Statistics for Engineering and Physical Sciences
- Instructor: Dr. Osnat Stramer

Teaching Assistant Fall 2010, Fall 2012

- Course: Probability and Statistics for Engineering and Physical Sciences
- Instructor: Dr. Rhonda DeCook

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 ACTIVITIES

Affiliations

American Educational Research Association

National Council on Measurement in Education

Psychometric Society

Korean-American Educational Researchers Association

Reviewer

Graduate session at the 2017 annual meeting of National Council on Measurement in Education

Student Committee Member

Jason Millman Award Committee, National Council on Measurement in Education   Apr 2016 - April 2017

COMPUTER
SKILLS

Programming Language

R, SAS IML, C, Python

Software Package

BILOG-MG, PARSCALE, flexMIRT, IRT Command Language (ICL)

Others

LaTeX, Visual Basic for Applications (VBA)