

Tai Sun Jeong

Ph.D. Student in Quantitative Methods
Department of Educational Psychology
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EDUCATION

MA in Education

February 2021

Korea National University of Education, Department of Education

Thesis: *Modeling Likert-scaled predictors in penalized regression: A Monte Carlo simulation on nonlinear effect*

Advisor: Jin Eun Yoo, Ph. D.

BA in Education

February 2017

Korea National University of Education, Department of Education

EMPLOYMENT

Research Assistant

Aug 2026 to Current

National Conference of Bar Examiners

Program Assistant

Aug 2024 to Aug 2026

Testing & Evaluation Services, University of Wisconsin-Madison

Research Assistant

Aug 2023 to Dec 2023

Bureau of University-Industry Cooperation & Research, Jeonbuk National University

Appointed Researcher

Mar 2021 to Feb 2023

Division of Educational Evaluation, Korea Institute for Curriculum and Evaluation

Teaching Assistant

Mar 2020 to Dec 2020

Korea National University of Education, Department of Education

PUBLICATIONS

Lee, S., Sang, K., **Jeong, T. S.**, & Sim, J. S. (2023). The effect of the construction of mixed anchor items on the test equating in mixed-format tests. *Journal of Educational Evaluation*, 36(1), 199-227.

<https://doi.org/10.31158/JEEV.2023.36.1.199>

Immekus, J. C., **Jeong, T. S.**, & Yoo, J. E. (2022). Machine learning procedures for predictor variable selection for schoolwork-related anxiety: Evidence from PISA 2015 mathematics reading and science assessments, *Large-scale Assessments in Education*, 10, 30. <https://doi.org/10.1186/s40536-022-00150-8>

- Yoo, J. E., & Jeong, T. S. (2022). Predictor exploration on the effect of sports for all participation via machine learning: 2020 National survey on sports for all data analysis, *The Korean Journal of Physical Education*, 61(5), 29-42. <https://doi.org/10.23949/kjpe.2022.9.61.5.3>
- Yoo, J. E., & Jeong, T. S. (2020). Exploration of variables to predict high school students' career information needs employing group Mnet, a machine learning. *Journal of Vocational Education & Training*, 23(3), 88-113.

CONFERENCE PRESENTATIONS

- Jeong, T. S., & Wollack, J. A. (2026, July 21–24). *Heterogeneous Conditional Dependence Between Response Time and Accuracy as Evidence for Cheating Detection* [Oral presentation]. International Meeting of the Psychometric Society, Seoul, South Korea. <https://drive.google.com/file/d/1g3cihdrwjHOTQY9S2WAo3CHq3Jup9AG7/view>
- Jeong, T. S., & Wollack, J. A. (2026, April 8–11). *Validating a behavioral measure of test-taking engagement: A latent regression approach* [eBoard presentation]. National Council on Measurement in Education Annual Meeting, Los Angeles, CA, United States. https://drive.google.com/file/d/1_OcJL-xrYMsLciRglv0dDd_EKwIU3wj/view
- Jeong, T. S., & Wollack, J. A. (2025, November 14). *Mixture Item Response Model as Unsupervised Classifier: Preknowledge Detection* [Conference presentation]. Ideas in Testing Research Seminar, Chicago, IL, United States. <https://ideasintesting.org/2025/schedule.html>
- Jeong, T. S., Yoo, J. E., & Kim, H. G. (2022, April 21-26). *A Monte Carlo simulation on nonlinear effects of Likert-scaled items with machine learning* [Roundtable presentation]. American Educational Research Association Annual Meeting, Sand Diego, CA, United States. <https://doi.org/10.3102/IP.22.1884930>
- Yoo, J. E., Jeong, T. S., & Immekus, J. C. (2022, April 21-26). *PISA test anxiety predictor exploration via penalized regression* [Poster session]. American Educational Research Association Annual Meeting, Sand Diego, CA. United States. <https://doi.org/10.3102/1883407>

AWARDS & HONORS

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|--|----------------------|
| First Place, 2026 NCME Graduate Student eBoard Competition | May 2026 |
| GSSC Fellow, University of Wisconsin-Madison | Sep 2024 to May 2025 |
| Outstanding Thesis Award, Korea National University of Education | February 2021 |

SERVICES

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| Quantitative Methods RISE-AI Search Committee, University of Wisconsin-Madison | Jan 2025 to April 2025 |
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TRAININGS
