

Curriculum Vitae

Haoran Li

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Education

- 2018 - 2023 PhD, Educational Psychology (Research, Measurement, and Statistics),
Texas A&M University
- 2013 - 2015 MS, Applied Psychology,
East China Normal University
- 2009 - 2013 BA, Event Management,
Shanghai University of International Business and Economics

Professional Experience

- 2023 - present Assistant Professor, Quantitative Methods in Education, Department of
Educational Psychology, University of Minnesota, Twin-Cities
- 2015 - 2016 Assessment Consultant, Beijing Beisen Cloud Computing Co. Ltd.

Area of Interest

Multilevel modeling
Single-case experimental designs
Monte Carlo simulation
Longitudinal data analysis
Measurement development and validation

Grant Activity

Funded

Title: Design Comparable Incidence Rate Ratio (IRR) Effect Sizes for Count Data in Single-Case Experimental Designs (R305D240019, \$891,958)
Source: Institute of Education Sciences (IES)
PI: Wen Luo, PhD
Role: PI for subaward
Period: 09/01/24-08/31/27
Effort: 12.5% FTE for 3 years
Project Aim: The proposed project aims to investigate the performance of design comparable IRR effect sizes, establish domain-specific IRR effect size benchmarks, and develop an R package tailored to applied SCED researchers.

Publication

Peer Reviewed Journal Articles:

- Hou, X., Hu, T., **Li, H.**, Henry, S., Ren, S., Xi, J., & Möttus, R. (2024). Construct Validity, Longitudinal Measurement Invariance, Incremental Validity, and Predictive Validity of the Original Grit Scale in Chinese Young Adults. *Journal of Personality Assessment*. Advance online publication. <https://doi.org/10.1080/00223891.2024.2367547>
- Li, H.** (in press, 2024). Model selection of GLMMs in the analysis of count data in single-case studies: A Monte Carlo simulation. *Behavior Research Methods*. Advance online publication. <https://doi.org/10.3758/s13428-024-02464-7>
- Li, H.**, Luo, W., & Baek, E. (in press, 2024). Multilevel modeling in single-case studies with zero-inflated and overdispersed count data. *Behavior Research Methods*. Advance online publication. <https://doi.org/10.3758/s13428-024-02359-7>
- Li, H.**, Luo, W., Baek, E., Thompson, C. G., & Lam, K. H. (in press, 2023). Multilevel modeling in single-case studies with count and proportion data: A demonstration and evaluation. *Psychological Methods*. Advance online publication. <https://doi.org/10.1037/met0000607>
- Luo, W. & **Li, H.** (2023). A comparison of methods for specifying optimal random effects structures. *Methodology*, *19*(4), 365–386. <https://doi.org/10.5964/meth.9601>
- Ettekal, I., **Li, H.**, Chaudhary, A., Luo, W. & Brooker, R. J. (2023). Chronic, increasing and decreasing peer victimization trajectories and the development of externalizing and internalizing problems in middle childhood. *Development and Psychopathology*, *35*(4), 1–19. <https://doi.org/10.1017/S0954579422000426>
- Blake, J.J., Jackson, L., Ruffin, N., Salter, P., **Li, H.**, Banks, C., & Williams, K. S. (2022). Black girls and school discipline: The role of teacher race, pubertal development, and discipline philosophy on discipline decisions. *Journal of Emotional and Behavioral Disorders*, *30*(2), 128–137. <https://doi.org/10.1177/10634266221077896>
- Li, H.**, Luo, W., Baek, E., Thompson, C. G., & Lam, K. H. (2021). Estimation and statistical inferences of variance components in the analysis of single-case experimental design using multilevel modeling. *Behavior Research Methods*, *54*(4), 1559–1579. <https://doi.org/10.3758/s13428-021-01691-6>
- Li, H.**, Luo, W., Xi, J., & Peng, Y. (2021). Development and validation of the Multidimensional Procrastination Scale in Chinese: A comprehensive qualitative and quantitative investigation. *European Journal of Psychological Assessment*, *38*(5), 412–426. <https://doi.org/10.1027/1015-5759/a000675>
- Luo, W., **Li, H.**, Baek, E., Chen, S., Lam, K. H., & Semma, B. (2021). Reporting practice in multilevel modeling: A revisit after 10 years. *Review of Educational Research*, *91*(3), 311–355. <https://doi.org/10.3102/0034654321991229>

Edited Book Chapters:

- Luo, W., Baek, E., & **Li, H.** (2022). Transparency and replicability of multilevel modeling applications: A guideline for improved reporting practices. In Khine, M. S. (Eds), *Methodology for multilevel modeling in educational research: Concepts and applications*, [pp. 161–183]. Springer Nature, Singapore.

Manuscripts under Review/in Revision:

- Li, H.,** Avendaño, S. M., & Bak, M.Y.S. (revise & resubmit). Analyzing the effects of a repeated reading intervention on reading fluency: An application of generalized linear mixed models.
- Li, H.,** Baek, E., Luo, W., Du, W., & Lam, K. H. (revise & resubmit). Using generalized linear mixed models in the analysis of SCED count and rate data: A step-by-step tutorial.
- Baek, E., Luo, W., **Li, H.,** Koehler, N. (under review). GLMM for meta-analysis of SCED with count data: An introduction and tutorial.
- Mendoza, M., Stanford-Galloway P., Ruffin, N., **Li, H.,** Russell, N., & Blake, J.J. (under review). Validating an adapted version of the teacher multicultural attitude scale.

Conference Presentation

- Li, H.** (2024, June) *Model selection of GLMMs in the analysis of count data in single-case studies: A Monte Carlo simulation.* Paper presented at the Modern Modeling Methods Conference, Storrs, CT. https://modeling.media.uconn.edu/wp-content/uploads/sites/1188/2024/07/M3_2024_Haoran-Li.pdf
- Li, H.,** Luo, W., Baek, E., Lam, K. H., & Du, W. (2024, April). *Tests for overdispersion and zero inflation in SCED (single-case experimental design) count data: A multistage model-selection procedure.* Poster presented at the Annual Meeting of the American Educational Research Association, Philadelphia, PA. <http://tinyurl.com/ylnp87uv>
- Luo, W., **Li, H.,** Baek, E., Li, C., Du, Z., Koehler, N., & Yang, X. (2024, April). *Establishing domain-specific empirical benchmarks for GLMM-based effect sizes in SCEDs.* Poster presented at the Annual Meeting of the American Educational Research Association, Philadelphia, PA. <http://tinyurl.com/2xbsvhdc>
- Li, H.,** Luo, W., Baek, E., Lam, K. H., Du, W., & Koehler, N. (2023, June). *GLMMs for overdispersed count data in SCED studies: Does autocorrelation matter?* Paper presented at the Modern Modeling Methods Conference, Storrs, CT. https://modeling.uconn.edu/wp-content/uploads/sites/1188/2023/06/Haoran-Li_M3.pdf
- Li, H.,** Luo, W., Baek, E., Lam, K. H., Du, W., & Koehler, N. (2023, May). *Single-case studies with count and proportion outcomes: A data analytical framework using generalized linear mixed models.* Poster presented at the Wing Institute Single-Case Conference, Nashville, TN.
- Li, H.,** Luo, W., Baek, E., Thompson, C. G., & Lam, K. H. (2022, April). *Multilevel modeling in single-case studies with zero-inflated count data.* Poster presented at the Annual Meeting of the American Educational Research Association, San Diego, CA. <https://tinyurl.com/y6qydc7>
- Li, H.,** Luo, W., Baek, E., Thompson, C. G., & Lam, K. H. (2022, April) *Generalized Linear Mixed Modeling in Single-Case Studies with Count and Proportion Data.* Poster presented at the Annual Meeting of the American Educational Research Association, San Diego, CA. <https://tinyurl.com/yxa4mwmc>
- Li, H.,** Luo, W., Lam, K. H., Baek, E., & Thompson, C. G. (2021, April) *Multilevel modeling in single case studies with count and proportion data.* Poster presented at the Annual Meeting of the American Educational Research Association. <https://tinyurl.com/yxgfmrjy>
- Chaudhary, A., **Li, H.,** Ettekal, I., Brooker, R.J., & Luo, W. (2021, April). *Peer victimization trajectories and longitudinal associations with children's externalizing and internalizing problems, and inhibitory control.* Poster presented at the Society for Research in Child

Development Biennial Meeting, virtual conference.

Li, H., Lam, K. H., Luo, W., Baek, E., & Thompson, C. G. (2020, June). *Innovated methods to improving performance of multilevel modeling for variance components in the analysis of SCED*. [Paper Session]. Modern Modeling Methods Conference, Storrs, CT (Conference Canceled).

Li, H., Lam, K. H., Luo, W., Baek, E., Thompson, C. G., & Majzun, A. (2020, April) *Performance of multilevel modeling and power of tests for variance components in the analysis of single-case experimental designs* [Structured Poster Session]. Annual Meeting of the American Educational Research Association, San Francisco, CA. <http://tinyurl.com/y29c9tl3> (Conference Canceled)

Teaching and Curriculum Development

EPSY 8251: Statistical Methods in Education I (Fall 2023)

EPSY 8252: Statistical Methods in Education II (Spring 2024)

EPSY 8266: Statistical Analysis Using Structure Equation Analysis (Spring 2024)

Advising and Mentoring

Doctoral Student Advising

Jichuan Wu, Educational Psychology Ph.D. (Fall 2023–present)

Service

Service to the Department of Educational Psychology, University of Minnesota

Member, Diversity Committee 2023–present

Conference Proposal Reviewer

SIG-Multilevel Modeling, AERA 2022–present

Division D - Measurement and Research Methodology, AERA 2023–present

Ad Hoc Reviewer

Evaluation and the Health Professions 2023

Behavior Research Methods 2024

Journal of School Psychology 2024

Psychologica Belgica 2024

Invited Talk

Job Seeking in Academia, Texas A&M University 2023

Job Seeking in Academia, University of Southern California 2023