



Lijin Zhang

Ph.D. Student in Education, admitted Autumn 2022

Bio

LINKS

- Personal Website: <https://lijinzhang.com>
- Google Scholar: <https://scholar.google.com/citations?hl=en&user=h6kdPRwAAAAJ>

Publications

PUBLICATIONS

- **A Beta Mixture Model for Careless Respondent Detection in Visual Analogue Scale Data** *PSYCHOMETRIKA*
Zhang, L., Domingue, B. W., Vogelsmeier, L. E., Ulitzsch, E.
2025: 1-24
- **Augmented Reality Medical Simulation: A Multi-Site Study of Factors That Influence Acceptance.** *Paediatric anaesthesia*
Wang, E. Y., Castro, S., Zhang, L., Suen, M. Y., Parris, M., Marks, A., Weser, V., Longhini, A. B., Strupp, K. M., Hernandez, M. R., Libaw, J. S., Kupiec-Weglinski, S., Lockhart, et al
2025
- **Bayesian factor mixture modeling with response time for detecting careless respondents.** *Behavior research methods*
Zhang, L., Ulitzsch, E., Domingue, B. W.
2025; 57 (10): 286
- **An introduction to the Item Response Warehouse (IRW): A resource for enhancing data usage in psychometrics.** *Behavior research methods*
Domingue, B. W., Braginsky, M., Caffrey-Maffei, L., Gilbert, J. B., Kanopka, K., Kapoor, R., Lee, H., Liu, Y., Nadela, S., Pan, G., Zhang, L., Zhang, S., Frank, et al
2025; 57 (10): 276
- **Associations between testosterone and future PTSD symptoms among middle age and older UK residents.** *Translational psychiatry*
Shen, H., Stafford, C., Meijssen, J., Zhang, L., Reiter, J., Lawn, R. B., Smith, A. K., Vermuri, M., Duncan, L. E.
2025; 15 (1): 268
- **Bayesian Growth Curve Modeling with Measurement Error in Time.** *Multivariate behavioral research*
Zhang, L., Qu, W., Zhang, Z.
2025: 1-19
- **Polytomous explanatory item response models for item discrimination: Assessing negative-framing effects in social-emotional learning surveys.** *Behavior research methods*
Gilbert, J. B., Zhang, L., Ulitzsch, E., Domingue, B. W.
2025; 57 (4): 109
- **Acceptance of Virtual Reality in Trainees Using a Technology Acceptance Model: Survey Study.** *JMIR medical education*
Wang, E. Y., Qian, D., Zhang, L., Li, B. S., Ko, B., Khoury, M., Renavikar, M., Ganesan, A., Caruso, T. J.
2024; 10: e60767

- **A tutorial on Bayesian structural equation modelling: Principles and applications.** *International journal of psychology : Journal internationale de psychologie*
Chen, Q., Su, K., Feng, Y., Zhang, L., Ding, R., Pan, J.
2024
- **A technology acceptance model to predict anesthesiologists' clinical adoption of virtual reality.** *Journal of clinical anesthesia*
Wang, E. Y., Kennedy, K. M., Zhang, L., Zuniga-Hernandez, M., Titzler, J., Li, B. S., Arshad, F., Khoury, M., Caruso, T. J.
2024; 98: 111595
- **Awe Inducing Elements in Virtual Reality Applications: A Prospective Study of Hospitalized Children and Caregivers.** *Games for health journal*
He, E. M., Arshad, F., Li, B. S., Brinda, R., Ganesan, A., Zhang, L., Fehr, S., Renavikar, M., Rodriguez, S. T., Wang, E., Rosales, O., Caruso, T. J.
2024
- **Heterogeneity of Item-Treatment Interactions Masks Complexity and Generalizability in Randomized Controlled Trials** *JOURNAL OF RESEARCH ON EDUCATIONAL EFFECTIVENESS*
Ahmed, I., Bertling, M., Zhang, L., Ho, A. D., Loyalka, P., Xue, H., Rozelle, S., Domingue, B. W.
2024
- **Testing informative hypotheses in factor analysis models using bayes factors.** *Psychological methods*
Gu, X., Zhu, X., Zhang, L., Pan, J.
2023
- **Predicting pediatric healthcare provider use of virtual reality using a technology acceptance model.** *JAMIA open*
Wang, E. Y., Kennedy, K. M., Zhang, L., Qian, D., Forbes, T., Zuniga-Hernandez, M., Li, B. S., Domingue, B., Caruso, T. J.
2023; 6 (3): ooad076
- **Variety and Mainstays of the R Developer Community** *R JOURNAL*
Zhang, L., Li, X., Zhang, Z.
2023; 15 (3): 5-25
- **Bayesian regularization in multiple-indicators multiple-causes models.** *Psychological methods*
Zhang, L., Liang, X.
2023
- **The Influence of Using Inaccurate Priors on Bayesian Multilevel Estimation** *STRUCTURAL EQUATION MODELING-A MULTIDISCIPLINARY JOURNAL*
Zheng, S., Zhang, L., Jiang, Z., Pan, J.
2022
- **Evaluation and Comparison of SEM, ESEM, and BSEM in Estimating Structural Models with Potentially Unknown Cross-loadings** *STRUCTURAL EQUATION MODELING-A MULTIDISCIPLINARY JOURNAL*
Wei, X., Huang, J., Zhang, L., Pan, D., Pan, J.
2022; 29 (3): 327-338
- **Criteria for Parameter Identification in Bayesian Lasso Methods for Covariance Analysis: Comparing Rules for Thresholding, p-value, and Credible Interval** *STRUCTURAL EQUATION MODELING-A MULTIDISCIPLINARY JOURNAL*
Zhang, L., Pan, J., Ip, E.
2021; 28 (6): 941-950
- **Problematic Internet Usage and Self-Esteem in Chinese Undergraduate Students: The Mediation Effects of Individual Affect and Relationship Satisfaction** *INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH*
Zeng, G., Zhang, L., Fung, S., Li, J., Liu, Y., Xiong, Z., Jiang, Z., Zhu, F., Chen, Z., Luo, S., Yu, P., Huang, Q.
2021; 18 (13)
- **A Partially Confirmatory Approach to Scale Development With the Bayesian Lasso** *PSYCHOLOGICAL METHODS*
Chen, J., Guo, Z., Zhang, L., Pan, J.
2021; 26 (2): 210-235
- **blcfa: An R Package for Bayesian Model Modification in Confirmatory Factor Analysis** *STRUCTURAL EQUATION MODELING-A MULTIDISCIPLINARY JOURNAL*

Zhang, L., Pan, J., Dube, L., Ip, E.
2021; 28 (4): 649-658

- **Integration of Moderation and Mediation in a Latent Variable Framework: A Comparison of Estimation Approaches for the Second-Stage Moderated Mediation Model** *FRONTIERS IN PSYCHOLOGY*

Feng, Q., Song, Q., Zhang, L., Zheng, S., Pan, J.
2020; 11: 2167