

## *Curriculum Vitae*

**Walter Lana Leite**

walter.leite@coe.ufl.edu

352 – 273-4302

My current research program consists of developing and evaluating statistical and data mining methods to strengthen causal inference and understanding of causal mechanisms using quasi-experimental and non-experimental data from Virtual Learning Environments.

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### **Education**

05/2005	<b>Doctor of Philosophy</b> <i>Quantitative Methods</i> The University of Texas at Austin
08/2003	<b>Master of Arts</b> <i>Program Evaluation</i> The University of Texas at Austin
08/2000 - 05/2001	<b>Exchange Student</b> The University of Texas at Austin
02/2000	<b>Bachelor of Psychology</b> Universidade Federal de Minas Gerais (UFMG), Belo Horizonte, Brazil

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### **Appointments**

Fall 2017 - Present	<b>Professor</b> Research and Evaluation Methodology Program – University of Florida
Fall 2011 – Summer 2017	<b>Associate Professor</b> Research and Evaluation Methodology Program – University of Florida
Fall 2005 – Spring 2011	<b>Assistant Professor</b> Research and Evaluation Methodology Program – University of Florida
Spring 2003 – Spring 2005	<b>Assistant Instructor</b> Department of Spanish and Portuguese – The University of Texas at Austin
Summer 2004	<b>Summer Intern</b> Educational Testing Service
	<b>Teaching Assistant</b>

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Spring 2002 - Fall 2002	Quantitative Methods Program – The University of Texas at Austin
	<b>Research Assistant/Survey Manager</b>
Spring 2002	The University of Texas at Austin, University of Texas Pan American
	<b>Research Assistant</b>
Fall 2002 – Spring 2003	Minority Mathematics and Science Education Cooperative – The University of Texas at Austin
	<b>Research Intern/Survey Data Analyst</b>
Summer 2001	Texas Homeless Network

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## Books

Leite, W. L. (2017). *Practical propensity score methods using R*. Thousand Oaks, CA: Sage.

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## Book chapters

1. Leite, W. L., Nazari, S. (217). Marlowe-Crowne Social Desirability Scale. In: V. Zeigler-Hill, T.K. Shackelford (eds.), *Encyclopedia of Personality and Individual Differences*, New York: Springer, p. 45-46. DOI 10.1007/978-3-319-28099-8\_45-1
2. Leite, W. L., & Collier, Z. K. (2018). Data Mining. In. B. Fey (Eds.), *The SAGE Encyclopedia of Educational Research, Measurement, and Evaluation*. Thousand Oaks, CA: Sage, p. 459-461. DOI: <http://dx.doi.org/10.4135/9781506326139.n181>
3. Leite, W. L. (2015). Latent growth modeling of longitudinal data with propensity score matched groups. In Wei Pan, & Haiyan Bai. *Propensity Score Analysis: Fundamentals, Developments, and Extensions*, (pp. 191-216.) New York, NY: Guilford.
4. Marcoulides, G., & Leite, W. L. (2013). Exploratory data mining algorithms for conducting searches in structural equation modeling: A comparison of some fit criteria. In. J. J. McArdle & G. Ritschard. (Eds.), *Contemporary issues in exploratory data mining in the behavioral sciences* (pp. 150-171). New York, NY: Taylor & Francis.
5. Bandalos, D. L. & Leite, W. L. (2013). Use of Monte Carlo Studies in Structural Equation Modeling Research. In G. R. Hancock & R. O. Mueller (Eds.), *Structural equation modeling: A second course* (2nd Ed.) (pp.564-666). Greenwich, CT: Information Age Publishing.

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## Peer-reviewed articles

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Collier, Z. K., & Leite, W. L. (2021). A Tutorial on Artificial Neural Networks in Propensity Score Analysis. *Journal of Experimental Education*. DOI: 10.1080/00220973.2020.1854158

Collier, Z. K., Leite, W. L., & Zhang, H. (2021): Estimating propensity scores using neural networks and traditional methods: a comparative simulation study, *Communications in Statistics - Simulation and Computation*, DOI: 10.1080/03610918.2021.1963455

Myers, J.A., Redding, C., Brownell, M.T., Gage, N.A., & Leite, W. (In press). Teacher qualification typologies and their relationship with the math achievement of adolescents at-risk for math difficulties: A latent class analysis study. *Teacher Education and Special Education*.

Leite, W. L., Jing, X., Kuang, H., Kim, D. & Huggins-Manley, A. C. (2021). Multilevel mixture modeling with propensity score weights for quasi-experimental evaluation of virtual learning environments. *Structural Equation Modeling*.  
<https://doi.org/10.1080/10705511.2021.1919895>

Mitten, C., Collier, Z. K., & Leite, W. L. (2021). Online Resources for Mathematics: Exploring the Relationship between Teacher Use and Student Performance. *Investigations in Mathematics Learning*, 1-18. <https://doi.org/10.1080/19477503.2021.1906041>

Collier Z. K., Leite W. L., Karpyn A. (2021). Neural Networks to Estimate Generalized Propensity Scores for Continuous Treatment Doses. *Evaluation Review*.  
doi:10.1177/0193841X21992199

Qiu, Y., Leite, W., Rodgers, M., & Hagler, N. (in press). Construct Validation of an Innovative Observational Child Assessment System: Teaching Strategies GOLD® Birth Through Third Grade Edition. *Early Childhood Research Quarterly*.

Leite, W. L., Shen, Z., Marcoulides, K. M., Fisk, C., & Haring, J. (2021). Using Ant Colony Optimization for Sensitivity Analysis in Structural Equation Modeling. *Structural Equation Modeling*.  
<https://www.tandfonline.com/doi/full/10.1080/10705511.2021.1881786>

Castañeda, G., Colby, S. E., Barnett, T. E., Olfert, M. D., Zhou, W., Leite, W. L., Zein, A. E., & Mathews, A. E. (2020) Examining the effect of weight conscious drinking on binge drinking frequency among college freshmen, *Journal of American College Health*, 68:8, 906-913, DOI: 10.1080/07448481.2019.1642204

Kim, D., Lee, Yongseok, Leite, W. L., Huggins-Manley, A. C. (2020). Exploring student and teacher usage patterns associated with student attrition in an open educational resource-supported online learning platform. *Computers & Education*, 156,  
<https://doi.org/10.1016/j.compedu.2020.103961>

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- Raborn, W. N. , Leite, W. L., Marcoulides, . M. (2020). A Comparison of Metaheuristic Optimization Algorithms for Scale Short-Form Development. *Educational and Psychological Measurement*, 80, 910-931. <https://doi.org/10.1177%2F0013164420906600>
- Huggins-Manley, A. C., Beal, C. R., D’Mello, S. K., Leite, W. L., Cetin-Berber, D. D., Kim, D., & McNamara, D. S. (2019). A commentary on construct validity when using operational virtual learning environment data in effectiveness studies. *Journal of Research on Educational Effectiveness*, 12, 750-759. <https://doi.org/10.1080/19345747.2019.1639869>
- Smith-Adcock, S., Leite, W. L, Kaya, Y., Amatea, E. (2019). A Model of Parenting Risk and Resilience, Social-Emotional Readiness, and Reading Achievement in Kindergarten Children from Low-Income Families. *Journal of Child and Family Studies*. 28, 2826–2841. <https://doi.org/10.1007/s10826-019-01462-0>
- Leite, W. L. , Cetin-Berber, D. D., Huggins-Manley, A. C., Collier, Z. K., & Beal, C. R. (2019). The relationship between Algebra Nation usage and high-stakes test performance for struggling students. *Journal of Computer Assisted Learning*, 35, 569–581. <https://doi.org/10.1111/jcal.12360>
- Aydin, B., Algina, J., & Leite, W. L. (2019). Comparison of Model and Design-Based Approaches to Detect the Treatment Effect and Covariate by Treatment Interactions in Three-Level Models for Multi-site Cluster Randomized Trials. *Behavior Research Methods*. 51, 243–257. <https://doi.org/10.3758/s13428-018-1080-1>
- Leite, W. L., Stapleton, L. M., & Bettini, E. F. (2019). Propensity Score Analysis of Complex Survey Data with Structural Equation Modeling: A Tutorial with Mplus. *Structural Equation Modeling: A Multidisciplinary Journal*, 26:3, 448-469, DOI: 10.1080/10705511.2018.1522591
- Bishop, C. D., Leite, W. L., Snyder, P. (2018). Using Propensity Score Weighting to Reduce Selection Bias in Large-Scale Data Sets. *Journal of Early Intervention*, 40(4), 347-362.
- Leite, W. L., Aydin, B. & Gurel, S. (2019). A Comparison of Propensity Score Weighting Methods for Evaluating the Effects of Programs with Multiple Versions. *The Journal of Experimental Education*, 87, 75-88. DOI: 10.1080/00220973.2017.1409179
- Cetin-Berber, D. D., & Leite, W. L. (in press). A comparison of one-step and three-step approaches for including covariates in the shared parameter growth mixture model. *Structural Equation Modeling*. 10.1080/10705511.2018.1428806
- Bettini, E., Jones, N., Brownell, M. , Conroy, M., Leite, W. L. (2018). Relationships between Novice Teachers’ Social Resources and Workload Manageability. *Journal of Special Education*, 52 (2), 113-126.

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Rarborn, A. W. , & Leite, W. L. (2018). ShortForm: An R package to select scale short forms with the ant colony optimization algorithm. *Applied Psychological Measurement*, 42(6), 516-517.

Gage, N., Leite, W. L., Childs, K. & Kincaid, D. (2017). *Average Treatment Effect of School-wide Positive Behavior Supports (SWPBIS) on School-Level Academic Achievement in Florida*. *Journal of Positive Behavior Interventions*. 19(3), 158-167.

Collier, Z. K. & Leite, W. L. (2017). A Comparison of Three-Step Approaches for Auxiliary Variables in Latent Class and Latent Profile Analysis. *Structural Equation Modeling*, 24:6, 819-830, DOI: 10.1080/10705511.2017.1365304

Li, Z., Leite, W. L., Thompson, L., Gross, H. E., Shenkman, E., Reeve, B. B., DeWalt, D. A., & Huang. I. (2017). Determinants of longitudinal health-related quality of life change in children with asthma from low-income families: a report from the PROMIS Pediatric Asthma Study. *Clinical and Experimental Allergy*. 47, 383–394, doi: 10.1111/cea.12827

Hu, J., & Leite, W. L. (2017). An Evaluation of the Use of Covariates to Assist in Class Enumeration in Linear Growth Mixture Modeling. *Behavior Research Methods*, 49 (3), 1179-1190.

Kaya, Y., & Leite, W. L. (2017). Assessing change in latent skills across time with longitudinal cognitive diagnosis modeling: An evaluation of model performance. *Educational and Psychological Measurement*, 77(3) 369–388.

Barnes, T., Leite, W. L., & Smith, S. (2017). A Quasi-experimental analysis of school-wide violence prevention programs. *Journal of School Violence*, 16, 49-67.

Barnes, T. N., Smith, S. W., Daunic, A. P., & Leite, W. L. (2016). Do student characteristics influence the effectiveness of the tools for getting along curriculum?: an examination using a cognitive-behavioral intervention. *Education and Treatment of Children*, 39, 569-592.

Chang, Y., Ko, Y. J. & Leite, W. L. (2016). The Effect of Perceived Brand Leadership on Luxury Service WOM. *Journal of Services Marketing*, 30, 659 – 671.

Aydin, B., Leite, W. L., & Algina, J. (2016). The effects of including observed means or latent means as covariates in multilevel models for cluster randomized trials. *Educational and Psychological Measurement*, 76, 803–823.

Koo, N., Leite, W. L., & Algina, J. (2016). Mediated effects with the parallel process latent growth model: an evaluation of methods for testing mediation in the presence of nonnormal data. *Structural Equation Modeling*, 23, 32-44.

Tavares, H. R., Carvallho, Adriana. M., & Leite, W. L. (2016). Curva de crescimento em Matemática via Teoria da Resposta ao Item [Growth curve for Mathematics via Item

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Response Theory]. *Estudos em Avaliação Educacional [Studies in Educational Evaluation]*. 27, 242-266. doi: 10.18222/ae.v27i64.3790

Belchior, P., Marsiske, M., Leite, W. L., Yam, A., Thomas, K., and Mann, W. (2016). *Games for Health Journal*. 5(3): 151-156. doi:10.1089/g4h.2015.0049.

Leite, W. L., Jimenez, F., Kaya, Y., Stapleton, L. M., MacInnes, J. W., & Sandbach, R. (2015). An evaluation of weighting methods based on propensity scores to reduce selection bias in multilevel observational studies. *Multivariate Behavioral Research*. 50, 265–284.

Park, Y., Gurel, S., Oh, J., Leite, W., & Bettini, E. F. (2015). Literacy related school readiness skills of English language learners in Head Start: An analysis of the School Readiness Survey. *Journal of Early Childhood Research*, 13, 280–294.

Aydin, B., Leite, W. L., & Algina, J. (2014). The Consequences of Ignoring Variability in Measurement Occasions within Data Collection Waves in Latent Growth Models. *Multivariate Behavioral Research*, 49, 149–160.

Koo, N. & Leite, W. L. (2014). The Impact of Ignoring Time Series Processes in Linear Growth Mixture Modeling. *Structural Equation Modeling*, 21, 210–224.

Zhang, L., Jin, R., Leite, W. L., & Algina, J. (2014). Additive Models for Multitrait-Multimethod Data with a Multiplicative Trait-Method Relationship: A Simulation Study. *Structural Equation Modeling*, 21, 68–80.

Matos, D. A. S., Leite, W. L., Brown, G. T. L., & Cirino, S. D. (2014). An analysis of the factorial structure of the Teacher Communication Behavior Questionnaire with Brazilian high school science students. *Psicologia: Teoria e Pesquisa [Psychology: Theory and Research]*, 30(2), 223-234.

Adams, A., Ross, D., Swain, C., Dana, N, Leite, W., & Sandbach, R. (2013). Preparing teacher leaders in a job-embedded graduate program: Changes within and beyond the classroom walls. *Teacher Education and Practice*, 26 (3), 581-597.

Matos, D. A. S., Cirino, S. D., Brown, G. T. L., & Leite, W. L. (2013). A avaliação no ensino superior: Concepções múltiplas de estudantes Brasileiros [Assessment in higher education: Multiple conceptions of Brazilian students]. *Estudos em Avaliação Educacional [Studies in Educational Evaluation]*, 24 (54), 172-193.

Leite, W. L., Sandbach, R., Jin, R., MacInnes, J., & Jackman, G. A. (2012). An Evaluation of Latent Growth Models for Propensity Score Matched Groups. *Structural Equation Modeling*. 19, 437–456.

Boman IV, J. H., Ward, J. T., Gibson, C. L., & Leite, W. L. (2012) Can a perceptual peer deviance measure accurately measure a peer's self-reported deviance? *Journal of Criminal Justice*. 40, 463–471.

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Leite, W. L. (2012): Latent Growth Curve Modeling By Kristopher J. Preacher, Aaron L. Wichman, Robert C. MacCallum, and Nancy E. Briggs. *Structural Equation Modeling*, 19, 152-155.

Leite, W. L., & Stapleton, L. (2011). Detecting growth shape misspecifications in latent growth models: An evaluation of fit indices. *The Journal of Experimental Education*, 79, 361-381.

Jackman, M. G., Leite, W. L., & Cochrane, D. (2011). Estimating latent variable interactions with the unconstrained approach: A comparison of methods to form product indicators for large, unequal numbers of items. *Structural Equation Modeling*, 18, 274-288.

Leite, W. L., & Zuo, Y. (2011). Modeling latent Interactions at level two in multilevel structural equation models: An evaluation of mean-centered and residual-centered unconstrained Approaches. *Structural Equation Modeling*, 18, 449-464.

Behar-Horestein, L. S., & Leite, W. L. (2011). The Student-Centered Teachers' Beliefs Survey: An initial validity study based on a unified latent variable framework. *Curriculum and Teaching*, 26(1), 57-72.

Leite, W. L., & Beretvas, S. N. (2010). The performance of multiple imputation for Likert-type items with missing data. *Journal of Modern Applied Statistical Methods*, 9(1), 64-74.

Ward, J., Gibson, C., Boman, J. & Leite, W. L. (2010). Assessing the validity of the Retrospective Behavioral Self-Control scale: Is the General Theory of Crime stronger than the evidence suggests? *Criminal Justice and Behavior*. 37, 336-357.

Leite, W. L., & Cooper, L. A. (2010). Detecting social desirability bias using factor mixture models. *Multivariate Behavioral Research*, 45, 271-293.

Leite, W. L., Svinicki, M., & Shi, Y. (2010). Attempted validation of the scores of the VARK: Learning Styles Inventory with multitrait-multimethod confirmatory factor analysis models. *Educational and Psychological Measurement*. 70, 323-339.

Tuccitto, D. E., Giacobbi Jr., P. R., & Leite, W. L. (2010). The internal structure of positive and negative affect: A confirmatory factor analysis of the PANAS. *Educational and Psychological Measurement*, 70, 125-141.

Shi, Y., Leite, W. L., & Algina, J. (2010). The impact of omitting the interaction between crossed factors in cross-classified random effects modeling. *British Journal of Mathematical and Statistical Psychology*. 63, 1-15.

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Huang, I. C., Shenkman, E. A., Leite, W., Knapp, C. A., Thompson, L. A., & Revicki, D. A. (2009). Agreement was not found in adolescents' quality of life rated by parents and adolescents. *Journal of Clinical Epidemiology*, 62, 337-346.

Lane, H. B., Hudson, R. F., Leite, W. L., Kosanovich, M. L., Strout, M. T., Fenty, N. S., & Butler, T. W. (2009). Teacher knowledge about reading fluency and students' reading fluency growth in Reading First schools. *Reading and Writing Quarterly*. 25(1), 57-86.

Leite, W. L., Huang, I., & Marcoulides, G. A. (2008). Item selection for the development of short-forms of scales using an Ant Colony Optimization algorithm. <https://doi.org/10.1080/00273170802285743>

*Multivariate Behavioral Research*.43, 411-431.

Matos, D. A. S. ; Cirino, S. D. ; Leite, W. L. (2008). Instrumentos de avaliação do ambiente de aprendizagem da sala de aula: uma revisão da literatura. [Instruments for the evaluation of classroom learning environment: A literature review]. *Ensaio. Pesquisa em Educação em Ciências*, 10, 117-130.

Huang, I., Liu, J., Wu, A., Wu, M., Leite, W., & Hwang, C. (2008). Evaluating the reliability, validity and minimally important difference of the Taiwanese version of the Diabetes Quality of Life (DQOL) measurement. *Health and Quality of Life Outcomes*. 6, 87-99.

Huang I., Hwang, C. Wu M., Leite, W. L., & Wu A. W. (2008). Diabetes-specific or generic measures for health-related quality of life? Evidence from psychometric validation of the D-39 and SF-36. *Value in Health*, 11, 405-461.

Huang I., Frangakis C., Atkinson, M. J., Willkes, R. J., Leite, W. L., Vogel, W. B., & Wu., A. W. (2008). Addressing ceiling effects in health status measures: A comparison of techniques applied to measures for people with HIV disease. *Health Services Research*. 43, 327-339.

Leite, W. L. (2007). A comparison of latent growth models for constructs measured by multiple Items. *Structural Equation Modeling*. 14, 581-610.

Leite, W. L., & Beretvas, S. N. (2005). Validation of scores on the Marlowe-Crowne Social Desirability Scale and the Balanced Inventory of Desirable Responding. *Educational and Psychological Measurement*, 65, 140-154.

Stapleton, L. M., & Leite, W. L. (2005). A review of syllabi for a sample of structural equation modeling courses. *Structural Equation Modeling*, 12, 642-664.



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Beretvas, S. N., Meyers, J. L., & Leite, W. L. (2002). A reliability generalization study of the Marlowe-Crowne Social Desirability Scale. *Educational and Psychological Measurement*, 62(4), 570 -589.

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### Software

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1. Leite, W., & Shen, Z. (2020). SEMsens: A tool for sensitivity analysis in structural equation modeling (Version 0.2.6) [Software]. <https://CRAN.R-project.org/package=SEMsens>
  2. Raborn, A., & Leite, W. L. (2017). ShortForm: Automatic Short Form Creation. <https://cran.r-project.org/package=ShortForm>
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### Reports

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Rodgers, M.K., Leite, W., Ye, J., Gilliam, W., Glaser, L., & Thorman, A.; (2016). *Early Learning Performance Funding Pilot Project: Final Evaluation Report 2015-2016*. Tallahassee, FL: Florida's Office of Early Learning. Conference Proceedings

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### Conference Proceedings

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Leite, W. L., Roy, S., Chakraborty, N., Michailidis, G., Huggins-Manley, A. C., D'Mello, S. K., Faradonbeh, M. K. S., Jensen, E., Kuang, H. & Jing, Z. (2022). A novel video recommendation system for algebra: An effectiveness evaluation study. In LAK22: 12th International Learning Analytics and Knowledge Conference (LAK22), March 21–25, 2022, Online, USA. ACM, New York, NY, USA, <https://doi.org/10.1145/3506860.3506906>

Li, C., Xing, W., & Leite, W. L. (2021). Yet Another Predictive Model? Fair Predictions of Students' Learning Outcomes in an Online Math Learning Platform. *Proceedings of the 11th International Learning Analytics and Knowledge Conference (LAK21)*. <https://doi.org/10.1145/3448139.3448200>

Xue, K., Huggins-Manley, A. C., & Leite, W. L. (2020). Semi-supervised Learning Method for Adjusting Biased Item Difficulty Estimates Caused by Nonignorable Missingness under 2PL-IRT Model. In: A. N. Rafferty, J. Whitehill, C. Romero, & V. Cavalli-Sforza (eds). *Proceedings of The 13<sup>th</sup> Conference of Educational Data Mining*. [https://educationaldatamining.org/files/conferences/EDM2020/papers/paper\\_217.pdf](https://educationaldatamining.org/files/conferences/EDM2020/papers/paper_217.pdf)

Raborn, A., Leite, W., and Marcoulides, K. (2019). A Comparison of Automated Scale Short Form Selection Strategies. In: M. Desmarais, C. F. Lynch, A. Merceron, & R. Nkambou (eds.) *The 12th International Conference on Educational Data Mining*, pp. 402 – 407

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### Conference Presentations

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1. Shin, J., Balyan, R., Banawan, M., Leite, W. L., McNamara, D. (2021, April). Theory-Driven Natural Language Processing: Revealing Distinct Patterns of Pedagogical Communication in Algebra Tutoring. Paper presented at the 2021 American Educational Research Association (AERA) Annual Meeting. Virtual.
  2. Li, Z., Huggins-Manley, A. C., Miller, D. & Leite, W. L. (2021, April). Ability Parameter Recovery in Virtual Learning Environment Item Response Data With the Sequential Two-Parameter Logistic Item Response Theory (2PL-IRT) Model. Paper presented at the 2021 American Educational Research Association (AERA) Annual Meeting. Virtual.
  3. Nazari, S. & Leite, W. L. (2021, April). Person-Fit Indices to Detect Social Desirability Bias Using Classifiers. Paper presented at the 2021 American Educational Research Association (AERA) Annual Meeting. Virtual.
  4. Shen, Z. & Leite, W. L. (2021, April). Optimal Design of Group-Randomized Trials Probing Meditation Effects With Group-Level Mediators. Paper presented at the 2021 American Educational Research Association (AERA) Annual Meeting. Virtual.
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  6. Zhang, H., Quan, J., & Leite, W. L. (2021, April). Causal Mediation Analysis in Structural Equation Modeling With Ratio-of-Mediator-Probability Weighting. Paper presented at the 2021 American Educational Research Association (AERA) Annual Meeting. Virtual.
  7. Shen, Z., & Leite, W. L. (2021, April). Using Ant Colony Optimization for Sensitivity Analysis in Structural Equation Modeling. Paper presented at the 2021 American Educational Research Association (AERA) Annual Meeting. Virtual.
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  9. Leite, W. L. (2021, April). The Potential and Challenges of Current Methods for Sensitivity Analysis in Structural Equation Modeling. Paper presented at the 2021 American Educational Research Association (AERA) Annual Meeting. Virtual.
  10. Leite, W. L., Jing, Z., Kuang, H., Kim, D., Huggins-Manley, A. C. (2020, July). Multilevel mixture modeling with propensity score weights for quasi-experimental evaluation of virtual learning environments. Paper presented at the Causal Inference Workshop of the 2020 Educational Data Mining (EDM20) Conference.
  11. Kuang, H., Leite, W. L., Jing, Z., & Huggins-Manley, A. C. (2020, March). Detecting Heterogeneity in an Experimental Study of a Personalized Learning Algorithm with Structural Equation Model Forests. Paper presented at the Society for Research on Educational Effectiveness (SREE) Spring 2020 Conference. Crystal City, VA.
  12. Kuang, H., & Jing, Z. (2019, November). A Comparison of Estimation Methods for Multilevel IRT Models. Paper presented at the Florida Educational Research Association (FERA) 64th Annual Meeting. St. Petersburg, FL.

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13. Kuang, H., Leite, W. L., & Jing, Z. (2019, November). Detecting Heterogeneous Treatment Effects in an Experimental Study of a Personalized Learning Algorithm. Paper presented at the Florida Educational Research Association (FERA) 64th Annual Meeting. St. Petersburg, FL.
  14. Jing, Z., & Kuang, H., Leite, W. L., & Huggins-Manley, A.C. (2019, November). Applying Hybrid Ant Colony Optimization Algorithm in Mixture Item Response Theory Model. Paper presented at the Florida Educational Research Association (FERA) 64th Annual Meeting. St. Petersburg, FL.
  15. Manley, A. C., Beal, C., Leite, W. L., D'Mello, S. & Cetin-Berber, D. D. (2019, April). Going From Virtual Learning Environment Data to Educational Constructs: A Call for Improved Construct Validity. Paper presented at the Annual Meeting of the American Educational Research Association. Toronto, Canada.
  16. Kuang, H., Leite, W. L., Jing, Z., & Marcoulides, K. M. (2019, April). Sensitivity Analysis: comparing the phantom variable approach and simulation approach. Poster presented at the 2019 American Educational Research Association (AERA) Annual Meeting. Toronto, Canada.
  17. Jing, Z., Leite, W. L., Kuang, H., & Marcoulides, K. M. (2019, April). Optimization of model specification search in structural equation modeling with hybrid ant colony optimization algorithm. Paper presented at the 2019 American Educational Research Association (AERA) Annual Meeting. Toronto, Canada.
  18. Jing, Z., Leite, W. L., Kuang, H., & Marcoulides, K. M. (2019, April). Using skew t distribution to estimate generalized propensity scores for highly skewed continuous treatments. Poster presented at the 2019 American Educational Research Association (AERA) Annual Meeting. Toronto, Canada.
  19. Kuang, H., Leite, W. L., Jing, Z., & Marcoulides, K. M. (2019, January). Sensitivity Analysis with the Mediation Effect in Structural Equation Modeling. Poster presented at Statistics Annual Winter Workshop 2019: Recent Advances in Causal Inference and Mediation Analysis and their Applications. Gainesville, FL.
  20. Jing, Z., Leite, W. L., Kuang, H., & Marcoulides, K. M. (2019, January). Using skew t distribution to estimate generalized propensity scores. Poster presented at Statistics Annual Winter Workshop 2019: Recent Advances in Causal Inference and Mediation Analysis and their Applications. Gainesville, FL.
  21. Leite, W. L. Cetin-Berber, D. D., Huggins-Manley, A. C., & Beal, C. (2019). Quasi-Experimental Evaluation of Usage of Virtual Learning Environments: A Latent Class Approach With Inverse Probability of Treatment Weighting. Poster Presented at the Annual Meeting of the American Educational Research Association.

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22. Leite, W. L., Jing, Z. Cetin-Berber, D. D., Huggins-Manley, A. C., Collier, Z. K., & Beal, C. R. (2019, March). Propensity Score Methods for the Evaluation of Multilevel Usage Patterns of Virtual Learning Environments. Poster Presented at the Annual Meeting of the Society for Research on Educational Effectiveness. Washington, DC.
  23. Zhou, J., Leite, W. L. Huggins-Manley, A. C. (2018, November). Using inverse probability weighting in an explanatory item response model to adjust for item-level missingness - An illustrative study. Paper presented at the Annual Meeting of the Florida Educational Research Association, St. Petersburg, FL.
  24. Leite, W. L., Jing, Z. Cetin-Berber, D. D., Huggins-Manley, A. C., Collier, Z. K., & Beal, C. R. (2018, November). Quasi-experimental evaluation of usage patterns of virtual learning environments with multilevel mixture models and propensity score weighting. Paper presented at the Annual Meeting of the Florida Educational Research Association, St. Petersburg, FL.
  25. Nazari, S., & Leite, W. L. (2018, November). Comparing piecewise latent growth model and parallel-process piecewise latent growth model: a power analysis. Paper presented at the Annual Meeting of the Florida Educational Research Association, St. Petersburg, FL.
  26. Jing, Z., Leite, W. L., & Kuang, H. (2018, November). Optimization of model specification search in structural equation modeling with hybrid ant colony optimization algorithm. Paper presented at the Annual Meeting of the Florida Educational Research Association, St. Petersburg, FL.
  27. Huggins-Manley, A. C., Beal, C. R., D’Mello, S., Leite, W. L., & Cetin-Berber, D. (2018, November). Going from virtual learning environment data to educational constructs: A call for improved construct validity. Paper presented at the Annual Meeting of the Florida Educational Research Association, St. Petersburg, FL.
  28. Leite, W. L., Zhou, J., Manley, A. C., & Primi, R. (2018, July).
  29. A Comparison of Models for Control of Response Styles in Ordinal Items. Paper presented at the International Meeting of the Psychometric Society, New York, NY.
  30. Leite, W. L., Cetin-Berber, D., Collier, Z. K., Manley, A. C., & Beal, C. (2018, April). Impact of the Algebra Nation Tutoring Program on the Performance of Students Who Retake the End-of-Course Exam. Poster presented at the annual meeting of the American Education Research Association Conference, New York, NY.
  31. Andrade, D., Schimitt, J., Leite, W. L., Huggins-Manley, A. C., & Borgatto, A. (2018, April). Validity Evidences for Scale of Student Propensity to Drop Out of

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Undergraduate Courses. Paper presented at the annual meeting of the American Education Research Association Conference, New York, NY.

32. Su, Y. & Leite, W. L. (2018, April). The Performance of Multilevel Growth Mixture Models With Between-Group Mixture for Identifying Between-Group Latent Classes. Paper presented at the annual meeting of the American Education Research Association Conference, New York, NY.
33. Leite, W. L., Cetin-Berber, D., Collier, Z. K., Manley, A. C., & Beal, C. (2017, November). Impact of the Algebra Nation Tutoring Program on the Performance of Students Who Retake the End-of-Course Exam. Poster presented at the annual meeting of the Florida Educational Research Association, Cocoa Beach, FL.
34. Cetin-Berber, D. & Leite, W. L. (2017, April). A Comparison of One-Step and Three-Step Approaches in the Shared Parameter Growth Mixture Model. Paper presented at the annual meeting of the American Education Research Association Conference. San Antonio, TX.
35. Collier, Z. K., & Leite, W. L. (2017, April). Teaching Neural Networks to Estimate Propensity Scores. Paper presented at the annual meeting of the American Education Research Association Conference. San Antonio, TX.
36. Rodger, M. K., He, J., Leite, W. L., Dogan, S. (2017, April). Improving Teacher Capacity in Early Childhood Classrooms Through an Innovative Professional Learning System. Paper presented at the annual meeting of the American Education Research Association Conference. San Antonio, TX.
37. Leite, W. L. (2016, December). Propensity Score Analysis. *Brazilian Conference on Item Response Theory*, Brasilia, Brazil.
38. Collier, Z. & Leite, W. L. (2016, November). Teaching neural networks to estimate propensity scores. Paper presented at the Annual Meeting of the Florida Educational Research Association. Lakeland, FL.
39. He, J., Dogan, S., Rodgers, M. K., & Leite, W. L. (2016, November). The effects of an innovative professional learning system for early childhood instructors. Paper presented at the Annual Meeting of the Florida Educational Research Association. Lakeland, FL.
40. Cetin-Berber, D., & Leite W. L. (2016, November). Examining the performance of one-step and three-step approaches by using shared
41. parameter growth mixture model. Paper presented at the Annual Meeting of the Florida Educational Research Association. Lakeland, FL.
42. Cetin-Berber, D., & Leite W. L. (2016, November). A comparison of one-step and three-step approaches for including covariates in the pattern

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43. mixture model. Paper presented at the Annual Meeting of the Florida Educational Research Association. Lakeland, FL.
  44. Leite, W. L. , Aydin, B., Gurel, S., & Cetin-Berber, D. (2016, May). A comparison of methods for imputation of missing covariate data prior to propensity score analysis. Paper presented at the Modern Modelling Methods Conference. Storrs, CT.
  45. Leite, W. L. , & Stapleton, L. M. (2016, May). Propensity score analysis with SEM: A tutorial using MPLUS. Paper presented at the Modern Modelling Methods Conference. Storrs, CT.
  46. Leite, W. L. & Aydin, B. (2016, April). A comparison of methods for imputation of missing covariate data prior to propensity score analysis. Paper presented at the annual meeting of the American Education Research Association Conference. Washington, D.C.
  47. Leite, W. L. & Collier, Z. (2016, April). Modeling Cross-Classified Data With and Without the Crossed Factors' Random Effects' Interaction. Poster presented at the annual meeting of the American Education Research Association Conference. Washington, D.C.
  48. Collier, Z., & Leite, W. L. (2016, April). Testing the Effectiveness of Three-Step Approaches with Auxiliary Variables in Latent Class and Profile Analysis. American Education Research Association Conference. Washington, D.C.
  49. Mitten, C., Collier, Z., & Leite, W. L. (2016, April). Online Resources for Mathematics: Exploring How and Why they Support Student Learning. Paper presented at the annual meeting of the American Education Research Association Conference. Washington, D.C.
  50. Cugini, S., Collier, Z., Leite, W. L., Adams, T. (2016, February). The Impact of Algebra Nation. Paper presented at the Research Council on Mathematics Learning, Orlando, FL.
  51. Leite, W. L. (2015, December). Latent Growth Modeling. *Brazilian Conference on Item Response Theory*, Brasilia, Brazil.
  52. Collier, Z., & Leite, W. L. (2015, November). Testing the Effectiveness of Three-Step Approaches with Auxiliary Variables in Latent Class and Profile Analysis. Paper presented at the annual meeting of the Florida Education Research Association. Altamonte Springs, FL.

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53. Mitten, C., Collier, Z., & Leite, W. L. (2015, November). Online Resources for Mathematics: Exploring How and Why they Support Student Learning. Paper presented at the annual meeting of the Florida Education Research Association. Altamonte Springs, FL.
  54. Su, Y. & Leite, W. L. (2015, April). Testing the Effectiveness of Muthén's Maximum Likelihood (MUML) Estimation Method for Dyadic Data in Multilevel Structural Equation Models. Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.
  55. Adams, A., Miller, D., Leite, W. L., & He, J. (2015, April). Developing Teacher Leaders: Reported Behaviors of Participants in a Job-Embedded Master's Degree Program. Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.
  56. Kaya, Y. , & Leite, W. L. (2015, April). Longitudinal Cognitive Diagnosis Model Application of Latent Transition Analysis. Paper presented at the annual meeting of the National Council on Measurement in Education, Chicago, IL.
  57. Su, Y. & Leite, W. L. (2014, November). Testing the Effectiveness of Muthén's Maximum Likelihood (MUML) Estimation Method for Dyadic Data in Multilevel Structural Equation Models. Paper presented at the annual meeting of the Florida Educational Research Association, Cocoa Beach, FL.
  58. Adams, A., Ross, D., Leite, W. L., Jimenez, F. (2014, April). Evaluating the Impact of an Online, Job-Embedded Graduate Program for Practicing Teachers on Student Achievement. Paper presented at the annual meeting of the American Educational Research Association, Philadelphia, PA.
  59. Aydin, B., Algina, J., & Leite, W. L. (2014, April). Methods to Detect Treatment Effect in Cluster Randomized Trials. Paper presented at the annual meeting of the American Educational Research Association, Philadelphia, PA.
  60. Gurel, S., & Leite, W. L.(2014, April). Evaluation of Propensity Score Strategies With Multilevel Data When Treatment Assignment Mechanism Varies Between Clusters, Paper presented at the annual meeting of the American Educational Research Association, Philadelphia, PA.
  61. Leite, W. L., Gurel, S., & Stapleton, L. M. (2014, April). An Evaluation of Growth Models With Propensity Score Weighting for Longitudinal Observational Data. Paper presented at the annual meeting of the American Educational Research Association, Philadelphia, PA.

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62. Tingir, S., & Leite, W. L. (2014, April). The performance Genetic Matching to Reduce Selection Bias in Observational Studies. Paper presented at the annual meeting of the American Educational Research Association, Philadelphia, PA.
63. Smith, S., Amatea, E., Leite, W. L., Kaya, Y., & Mixon, K. (2014, April). Family-School Involvement: Rational Processes Influencing Children's Social-Emotional and Academic Development. Paper presented at the annual meeting of the American Educational Research Association, Philadelphia, PA.
64. Chang, Y., Ko, Y. J., & Leite, W. (2014, May). Propensity score analysis in structural equation modeling: A new approach dealing with selection bias in quasi-experimental studies. 2014 North American Society for Sport Management Conference (NASSM), Pittsburgh, PA.
65. Jimenez, F. A., Leite, W. L. (2013, April). *Estimating program effects with the interrupted time-series design and multilevel models: An application to the evaluation of a job-embedded master's degree program for teachers*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.
66. Gao, M., & Leite, W. L. (2013, April). *The Performance of Model Fit Indices with Multilevel Factor Mixture Models: A Monte Carlo simulation study*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.
67. Hu, J., & Leite, W. L. (2013, April). *An Evaluation of the Use of Covariates to Assist in Class Enumeration in Growth Mixture Modeling*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.
68. Leite, W. L., Aydin, B. & Gurel, S. (2013, April). *A comparison of propensity score methods for evaluating the effects of programs with multiple versions*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.
69. Jimenez, F. A., Leite, W. L. (2012, November). Estimating program effects with the interrupted time-series design and multilevel models: An application to the evaluation of a job-embedded master's degree program for teachers. Paper presented at the Annual Meeting of the Florida Educational Research Association, Gainesville, Florida.
70. Matos, D. A. S., Brown, G. T. L., Leite, W., & Cirino, S. (2012, August). Assessment in Brazilian higher education: Validation of a Portuguese version of the Students' Conceptions of Assessment (SCoA-VI) inventory. Paper presented at the biannual meeting of the SIG Assessment & Evaluation, European Association for Research in Learning Instruction, Brussels, BE.
71. Leite, W. L., Jimenez, F., Kaya, Y., Sandbach, & MacInnes, J. W. (2012, May). *A Comparison of Propensity Score Methods for the Estimation of Treatment Effects with*



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*Multilevel Observational Data*. Paper presented at the Modern Modeling Methods Conference, Storrs, CT.

72. Barnes, T. B., Leite, W. L., & Smith, S. W. (2012, April). *A quasi-experimental analysis of school-wide violence prevention programs*. Paper presented at the annual meeting of the American Educational Research Association, Vancouver, BC.
73. Gurel, S., & Leite, W. L. (2012, April). *The performance of propensity score methods to estimate the average treatment effect in observational studies with selection bias: a Monte Carlo simulation study*. Paper presented at the annual meeting of the American Educational Research Association, Vancouver, BC.
74. Kaya, Y., & Leite, W. L. (2012, April). *Evaluation of the use of propensity scores in mediation analysis*. Paper presented at the annual meeting of the American Educational Research Association, Vancouver, BC.
75. Leite, W. L., Sandbach, R., & Palardy, G. (2012, April). *Teachers' Graduate Education and Experience Affecting Elementary Student Achievement: A Crossed Random Effects Growth Model*. Paper presented at the annual meeting of the American Educational Research Association, Vancouver, BC.
76. Matos, D. A. S., Cirino, S. D., Brown, G. T. L., Leite, W. L. (2011, September). A avaliação no ensino superior: concepções múltiplas de estudantes brasileiros. [Assessment in Higher Education: multiple conceptions of Brazilian Students.]. Paper presented at the VI Reunião da Associação Brasileira de Avaliação Educacional - ABAVE [6th Meeting of the Brazilian Association for Educational Evaluation], Fortaleza, Brazil.
77. Leite, W. L., Jimenez, F., Kaya, Y., Sandbach, R., & MacInnes, J. (2011, April). *The use of propensity score matching to reduce selection bias in multilevel designs: A Monte Carlo evaluation of matching methods*. Paper presented at the annual meeting of the American Educational Research Association, New Orleans, LA.
78. Adams, A., Ross, D.D., Swain, C., Dana, N.F., Leite, W., Sandbach, R. (2011, April). *Preparing Teacher Leaders in Job-Embedded Graduate Program: Changes Within and Beyond the Classroom Walls*. Paper to be presented at the annual meeting of the American Educational Research Association, New Orleans, LA.
79. Leite, W. L., MacInnes, J. W., Jin, R., Sandbach, R., & Shi, Y. (2010, April). *Estimating time-varying treatment effects in observational studies: An evaluation of the performance of cross-classified growth curve models with inverse probability-of-treatment weights*. Paper presented at the Annual Meeting of the American Educational Research Association, Denver, CO.

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80. Leite, W. L., Stapleton, L. M., Beretvas, S. N., & Algina, J. (2010, April). *Analyzing cross-classified data structures without a cross-classified random effects model: An evaluation of design-based methods*. Paper presented at the Annual Meeting of the American Educational Research Association, Denver.
81. Leite, W. L., MacInnes, J. W., Jin, R., & Sandbach, R. (2010, April). *Estimating treatment effects in observational longitudinal studies: The performance of a latent growth model for multiple matched groups*. Paper presented at the Annual Meeting of the American Educational Research Association, Denver.
82. MacInnes, J., Adams, A., Leite, W. L., & Ross, D. (2009, April). *Do students benefit equally from comprehensive school reform? A comparison of student gains in reading and mathematics achievement*. Paper presented at the Annual Meeting of the American Educational Research Association, San Diego.
83. Leite, W. L., & Marcoulides, G. A. (2009, April). *Using the Ant Colony Optimization Algorithm for specification searches: A comparison of criteria*. Paper presented at the Annual Meeting of the American Educational Research Association, San Diego.
84. Leite, W. L., Jackman, M. G., West-Olatunji, C., & MacInnes, J. W. (2009, April). *Identifying the effect of school mobility on the academic growth of elementary school children*. Paper presented at the Annual Meeting of the American Educational Research Association, San Diego.
85. Jackman, M. G., & Leite, W. L. (2009, April). *Estimating latent interactions between exogenous constructs measured by large or unequal numbers of observed variables*. Paper presented at the Annual Meeting of the American Educational Research Association, San Diego.
86. Underhill, J., & Leite, W. L. (2009, April). *Effect of misspecification of growth trajectory on class identification in growth mixture models*. Paper presented at the Annual Meeting of the American Educational Research Association, San Diego.
87. Zhang, O., & Leite, W. L. (2009, April). *Evaluating the effect of reliability changes across time on the trait-state-occasion model*. Paper presented at the Annual Meeting of the American Educational Research Association, San Diego.
88. Zuo, Y., & Leite, W. L. (2009, April). *Modeling latent interaction effects in multilevel structural equation models*. Paper presented at the Annual Meeting of the American Educational Research Association, San Diego.
89. Ward, J.T., Boman, J., Gibson, C., & Leite, W.L. (2009, March). *An item response analysis of the Retrospective Behavioral Self-Control scale*. Paper presented at the Academy of Criminal Justice Sciences, Boston, Massachusetts.

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90. Leite, W. L., Sandbach, R., Jin, R., MacInnes, J. W., & Jackman, M. (2009, November). Estimating treatment effects in observational longitudinal studies: The performance of latent growth models for multiple matched groups. Paper presented at the annual meeting of the Florida Educational Research Association, Orlando.
  91. West-Olatunji, C. A., Goodman, R. D., Sanders, T., Leite, W. L., & Reid, L. (2008, November). The impact of African American parenting behaviors on the academic achievement of their primary school children, Paper presented at the annual meeting of the Florida Educational Research Association, Orlando.
  92. Leite, W. L., Adams, A., Ross, D., Butler, T., & MacInnes, J. W. (2008, March). *Impact of comprehensive school reform on student achievement in high poverty elementary schools*. Paper presented at the Annual Meeting of the American Educational Research Association, New York.
  93. Leite, W. L., & Jackman, M. G. (2008, March). *The use of propensity scores with latent growth models to estimate time-varying treatment effects*. Paper presented at the Annual Meeting of the American Educational Research Association, New York.
  94. Leite, W. L., & Cooper, L. (2007, August). *Diagnosing social desirability bias with structural equation mixture models*. Poster session presented at the Annual Meeting of the American Psychological Association, San Francisco.
  95. Huang, I., Shenkman, B., Knapp, C., Leite, W. L. (2007, June). *Meaningful comparisons between ratings of children's health outcomes by parents and children*. Paper presented at the Annual Research Meeting of the Academy Health, Orlando.
  96. Leite, W. L. (2007, April). *A comparison of different approaches to include time-invariant and time-varying predictors in latent growth models*. Paper presented at the Annual Meeting of the American Educational Research Association, Chicago.
  97. Leite, W. L., & Huang, I. (2007, April). *Item selection for the development of short forms of scales using an Ant Colony Optimization algorithm*. Paper presented at the Annual Meeting of the American Educational Research Association, Chicago.
  98. Shi, Y., Leite, W. L., Algina, J. (2007, April). *The impact of omitting the cross-classified factors interaction in CCREM*. Paper to be presented at the Annual Meeting of the American Educational Research Association, Chicago.
  99. Hudson, R. F., Lane, H. B., & Leite, W. L. (2007, February). *Teacher knowledge of reading fluency and students' growth in decoding and reading fluency*. Paper presented at the annual Pacific Coast Research Conference, Coronado, CA.
  100. Adams, A., Ross, D., Quinn, D., Dana, N., Leite, W. L., & Pemberton, D. (2007, January). *PLC reform in high poverty elementary schools: Formative and*

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- summative assessment of impact*. Presentation at the NSRF Research Forum, Seattle, WA.
101. Ross, D., Adams, A., Quinn, D., Dana, N., Leite, W. L., & Pemberton, D. (2007, January). *Enhancing achievement in high poverty schools through building professional learning communities*. Paper presented at the Holmes Conference. San Antonio, TX.
  102. Matos, D. A. S., Cirino, S. D., Leite, W. L. (2007, April) . Um estado da arte sobre os instrumentos de avaliação do ambiente de aprendizagem da sala de aula. [The state of art of instruments for evaluation of classroom learning environments]. Paper presented at the VIII Congresso Nacional de Psicologia Escolar e Educacional [8th National Conference of School and Educational Psychology], São João del-Rei, Brazil.
  103. Matos, D. A. S., Cirino, S. D., Leite, W. L. (2007, April). A Percepção dos Alunos do Comportamento Comunicativo do Professor de Ciências. [Student perceptions of the communication behavior of science teachers]. Paper presented at the VIII Congresso Nacional de Psicologia Escolar e Educacional [8th National Conference of School and Educational Psychology], São João del-Rei, Brazil.
  104. Matos, D. A. S., Leite, W. L., & Cirino, S. D. (2006, July). A cross-validation of the Teacher Communication Behavior Questionnaire (TCBQ) with a Brazilian sample. Paper presented at the 5th International Testing Commission Conference, Brussels, Belgium.
  105. Leite, W. L., & Stapleton, L. M. (2006, April). *Sensitivity of fit indices to detect misspecifications of growth shape in latent growth modeling*. Paper presented at the Annual Meeting of the American Educational Research Association, San Francisco.
  106. Leite, W. L. (2006, April). *A comparison of latent growth models for constructs measured by multiple items*. Paper presented at the Annual Meeting of the American Educational Research Association, San Francisco.
  107. Whitaker, T. A., Beretvas, S. N., & Leite, W. L. (2006, April). *A model for longitudinal dyadic data: A comparison using HLM versus SEM*. Paper presented at the Annual Meeting of the American Educational Research Association, San Francisco, CA.
  108. Leite, W. L., & Beretvas, S. N. (2004, April). *The performance of multiple imputation for Likert-type items with missing data*. Paper presented at the Annual Meeting of the American Educational Research Association, San Diego, CA.
  109. Leite, W. L., & Beretvas, S. N. (2003, April). *A construct validation study of the Marlowe-Crowne Social Desirability Scale and the Balanced Inventory of Desirable Responding*. Paper presented at the Annual Meeting of the American Educational Research Association, Chicago.

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110. Sperling, R. A. & Leite, W. L. (2003, February). *Evaluation or exploitation?: How the misuse and under-evaluation of multi-cultural service-learning impact trainees and communities*. Paper presented at the 20<sup>th</sup> Anniversary Teachers College Winter Roundtable on Cross-Cultural Psychology and Education, New York.
111. Beretvas, S. N. Meyers, J. L., & Leite, W. L. (2002, February). A reliability generalization study of the Marlowe-Crowne Social Desirability Scale. Paper presented at the annual conference of the Southwest Educational Research Association, Austin, TX.
112. Goulart, I. B., & Leite, W. L. (2000, July). Movimentos emergentes na área de recursos humanos: A qualificação profissional. [Emergent movements in the area of human resources: Professional qualification.]. Poster session presented at the 52nd annual meeting of the Brazilian Society for the Progress of Science, Brasilia, DF, Brazil.
113. Leite, W. L., & Goulart, I. B. (1999, October). Qualidade de vida no trabalho: Uma análise da experiência de empresas brasileiras. [Quality of Life at Work: An analysis of the experience of Brazilian organizations]. Poster session presented at the 29th Annual Meeting of the Brazilian Society of Psychology, Campinas, SP, Brazil.

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### Grants Funded

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**Title:** Precision Education: The Virtual Learning Lab

**Dates:** 7/1/2016 – 6/31/2021

**Sponsor Agency:** Institute of Education Sciences

Award number: R305C160004

**Objective:** Develop and evaluate an adaptive version of the Algebra Nation online learning environment.

**Amount:** \$8,994,849

**Role:** PI (7/1/2018 – 6/31/2021), Co-PI (7/1/2016-6/31/2018)

**Effort:** 50% (7/1/208 – 6/31/2021), 25% (7/1/2016-6/31/2018)

**Title:** Enhancing School Resource Officers Effectiveness through Online Professional Development

**Dates:** 01/01/18-12/31/20

**Sponsor Agency:** National Institute of Justice

**Award number:** 2017-CK-BX-0019

**Objective:** Implement and evaluate an online platform for training of school resource officers

**Role:** Co-Principal Investigator (PI: Dorothy Espelage)

**Role description:** Coordinate program evaluation, implement analysis of outcomes

**Effort:** 10% Annually

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**Title:** Prime Online  
**Dates:** 08/15/18-08/14/22  
**Objective:** Implement and evaluate the PRIME Online program  
**Sponsor Agency:** Institute of Education Sciences  
**Award number:** R324A180135  
**Role:** Co-principal investigator (PI: Cynthia Griffin)  
**Role Description:** Responsible for the statistical analysis  
**Effort:** 10% Annually

**Title:** BEST in CLASS Web: A Web-based Intervention Supporting Early Childhood Teachers' Use of Evidence-based Practices with Young Children at Risk for Emotional/Behavioral Disorders  
**Dates:** 8/1/2016 – 7/31/2019  
**Sponsor Agency:** Institute of Education Sciences  
**Award number:** R324A160158  
**Amount:** \$1,500,000  
**Role:** Statistician (PI: Maureen Conroy)  
**Role description:** Coordinate analysis of quantitative data  
**Effort:** 5% in Year 3

**Title:** Pay for Performance  
**Dates:** 8/1/2018- 11/30/2018  
**Sponsor Agency:** Florida's Office of Early Learning  
**Amount:** \$411,945  
**Role:** Co-Principal Investigator (PI: Phillip Poekert)

**Title:** Pay for Performance  
**Dates:** 8/1/2016– 9/15/2017  
**Sponsor Agency:** Florida's Office of Early Learning  
**Amount:** \$1,977,453.00  
**Role:** Co-Principal Investigator

**Title:** Pay for Performance  
**Dates:** 10/30/2015 – 9/15/2016  
**Sponsor Agency:** Florida's Office of Early Learning  
**Amount:** \$1,795,843  
**Role:** Co-Principal Investigator (PI: Phillip Poekert)

**Title:** MSP Palm Beach  
**Dates:** 7/1/2015 – 6/30/2016  
**Sponsor Agency:** Florida Department of Education  
**Amount:** \$499,917

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**Role:** Co-Principal Investigator

**Title:** PBC STEM Initiative - Community (Yr3)

**Dates:** 6/1/2015- 6/30/2016

**Agency:** Florida Department of Education

**Amount:** \$238,573

**Role:** Evaluator

**Title:** Postdoctoral research training fellowship in early intervention and early learning in special education at the University of Florida

**Dates:** May 2012 – May 2015

**Sponsor Agency:** Institute of Educational Sciences

**Award Number:** R324B120002

**Amount:** \$648,484

**Role:** Co-Principal Investigator

**Title:** Using item response theory to improve children's quality of life assessment

**Dates:** August 2010 - July 2012

**Sponsor Agency:** National Institute of Health

**Amount:** \$383,567

**Role:** Investigator

**Title:** The use of inverse probability-of-treatment weighting with growth curve models for the estimation of time-varying treatment effects: The impact of nonlinear growth.

**Dates:** August 2009 – March 2010

**Sponsor Agency:** College Research Incentive Fund award, College of Education, University of Florida

**Amount:** \$4,678.25

**Role:** Principal Investigator

**Title:** Combining latent growth modeling with propensity score matching to estimate the time-varying effect of student mobility

**Dates:** May 2008 – April 2009

**Sponsor Agency:** American Educational Research Association/ National Center for Educational Statistics

**Amount:** \$20,000

**Role:** Principal Investigator

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### **Other Funded Proposals**

**Title:** Understanding Data: A Course Proposal for Addressing the Grand Challenge of Data Literacy

**Sponsor Agency:** University of Florida

**Effective Date:** Fall 2014

**Amount:** \$31,250

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## Awards

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2015-2018

**University of Florida Research Foundation Professor**

2015

**Most distinguished paper: Testing the Effectiveness of Three-Step Approaches with Auxiliary Variables in Latent Class and Profile Analysis by Zachary K. Collier and Walter L. Leite**

2015 Annual Meeting of the Florida Educational Research Association

2009

**Most distinguished paper: Estimating Treatment Effects in Observational Longitudinal Studies: The Performance of Latent Growth Models for Multiple Matched Groups by Walter L. Leite, Robert Sandbach, Rong Jin, Jann MacInnes, Grace-Anne Jackman**

2009 Annual Meeting of the Florida Educational Research Association

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## Teaching

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EDF6400 – Foundations of Educational Research: Overview

EDF6402 – Quantitative Foundations of Educational Research: Inferential Statistics

EDF6403 - Quantitative Foundations of Educational Research

EDF6471 - Survey Design and Analysis in Educational Research

EDF7439 – Item Response Theory

EDF7412 – Structural Equation Modeling

EDF7413 – Advanced Topics in Structural Equation Modeling

EDF7474 – Multilevel Modeling

EDF7482 - Quasi-Experimental Design and Analysis in Education

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## Advisory and Editorial Boards

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### 2020 – present

Member of the advisory board of the Lastinger Center for Learning

### 2015 – present

Member of the advisory board of the University of Florida Informatics Institute

### 2018 – present

Member of the editorial board of Structural Equation Modeling: A Multidisciplinary Journal

### 2009 - present

Member of the editorial board of the Journal of Experimental Education

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## Service to profession

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**2015-2017**

Chair of the Educational Statisticians Special Interest Group of the American Educational Research Association

**2014-2015**

Program Chair of the Educational Statisticians Special Interest Group of the American Educational Research Association

**2012-2013**

Chair of the Structural Equation Modeling Special Interest Group of the American Educational Research Association

**2011-2013**

Secretary of the Florida Educational Research Association

**2011-2012**

Vice-chair of the Structural Equation Modeling Special Interest Group of the American Educational Research Association

**2010-2011**

Chair of the Hierarchical Linear Modeling Special Interest Group of the American Educational Research Association

**2009-2010**

Vice-chair of the Hierarchical Linear Modeling Special Interest Group of the American Educational Research Association

**Ad Hoc Reviewer for:**

Evaluation Review

Multivariate Behavioral Research

American Educational Research Journal

National Science Foundation

British Journal of Mathematical and Statistical Psychology

Educational and Psychological Measurement

Psychological Methods

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