

## Eunsook Kim, Ph.D.

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<https://www.usf.edu/education/faculty/faculty-profiles/eun-sook-kim.aspx>

### EDUCATION

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| Texas A&M University, College Station, TX      |               |
| Doctor of Philosophy in Educational Psychology | August 2011   |
| • Focus: Research, Measurement, & Statistics   |               |
| Master of Science in Educational Psychology    | May 2007      |
| • Focus: Research, Measurement, & Statistics   |               |
| Korea National Open University, Korea          | February 1997 |
| Bachelor of Arts in Korean Literature          |               |
| Pusan National University, Busan, Korea        | February 1993 |
| Bachelor of Arts in English Education          |               |

### PROFESSIONAL EXPERIENCE

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| <b><i>Professor</i></b>  | 2022-present |
| Department of Educational and Psychological Studies<br>University of South Florida, Tampa, FL  |              |
| <b><i>Associate Professor</i></b>  | 2017-2022    |
| Department of Educational and Psychological Studies<br>University of South Florida, Tampa, FL  |              |
| <b><i>Assistant Professor</i></b>  | 2011-2017    |
| Department of Educational and Psychological Studies<br>University of South Florida, Tampa, FL  |              |
| <b><i>Adjunct Professor</i></b>  | 2017-present |
| School of Music<br>University of South Florida, Tampa, FL  |              |
| <b><i>Graduate Research Assistant</i></b>  | 2010-2011    |
| Department of Educational Administration and Human Resource Development<br>Texas A&M University, College Station, TX<br><i>Project School Leadership Improvement Study</i> (PI: Dr. Roger Goddard) |              |
| <b><i>Instructor &amp; Teaching Assistant</i></b>  | 2007-2010    |
| Department of Educational Psychology<br>Texas A&M University, College Station, TX  |              |
| <b><i>Middle School Teacher</i></b>  | 1993-2011    |
| Busan Metropolitan City Office of Education, Busan, Korea  |              |
| • Taught English to 7 <sup>th</sup> - 9 <sup>th</sup> grade students   |              |

**RESEARCH INTERESTS**

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Measurement invariance testing  
 Multi-informant research  
 Multilevel/longitudinal data analysis  
 Observed/unobserved group analysis (mixture modeling)  
 Propensity score analysis  
 Student social, emotional and academic behaviors

**AWARDS/HONORS**

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|   |            |
|---|------------|
| Educational Researcher of the Year<br>Florida Educational Research Association                                | 2017       |
| Outstanding Alumni Award: Early Career<br>College of Education, Texas A&M University                          | 2015       |
| Psychological Science Graduate Superstars – Datablitz<br>American Psychological Association Annual Convention | 2010       |
| Award in Curriculum and Instruction<br>Busan Dongbu School District, Busan, Korea                             | 2004, 2000 |

**PUBLICATIONS**

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(\* indicates a graduate student; † indicates a publication from a graduate student dissertation/thesis)

**Peer Reviewed Journal Articles - Published**

Kim, E., & von der Embse, N. P. (2023, online first). Applying polynomial regression mixture modeling to investigate differential effects of informant congruence. *The Journal of Experimental Education*. <https://doi.org/10.1080/00220973.2023.2229760>

Allen, T. D., Miller, M. H., French, K. A., Kim, E., & Centeno, G. (2023, online first). Faculty time expenditure across research, teaching, and service: Do gender differences persist? *Occupational Health Science*.

Wang, Y., Cao, C., & Kim, E. (2022, online first). Covariate inclusion in factor mixture modeling: Evaluating one-step and three-step approaches under model misspecification and overfitting. *Behavior Research Methods*.

71. Li, H., Wei, R., Weinstein, T. L., Kim, E., Jacques-Tiura, A. J., Ning, X., & Ma, W. (2023). Development of the non-occupational post-exposure prophylaxis (NPEP) knowledge scale among Chinese men who have sex with men. *BMC Public Health*, 23: 1329.

70. Allen, T. D., Miller, M. H., French, K. A., Kim, E. S., & Centeno, G. (2023). Gender differences in tenure-track faculty time spent on child care. *Industrial and Organizational Psychology*, 16, 211-214.

69. Kim, E., Cao, C., \*Liu, S., Wang, Y., & Dedrick, R. (2023). Testing measurement invariance over time with intensive longitudinal data and identifying a source of noninvariance. *Structural Equation Modeling*, 30(3), 393-411. <https://doi.org/10.1080/10705511.2022.2130331>

68. von der Embse, N. P., Kim, E., \*Ross, D., Kilgus, S., & \*Koza, T. (2023). Multi-informant

- assessment of internalizing concerns: Rater concordance and implications for decision-making. *Journal of Psychopathology and Behavioral Assessment*, 45, 234–246.
67. Hadley, E. B., Newman, K. M., Kim, E. S. (2023). Identifying levers for improvement: Examining proximal processes and contextual influences on preschool language development. *Early Education and Development*, 34(1), 181-207.
66. Ogbu, C. E., Ravilla, J., Okoli, M. L., Ahaiwe, O., Ogbu., S. Kim, E. S., & Kirby, R. S. (2023). Association of depression, poor mental health status and asthma control patterns in US adults using a data-reductive latent class method. *Cureus*, 15(1): e33966. doi:10.7759/cureus.33966
65. Gray, H. L., Pang, T., Agazzi, H., Shaffer-Hudkins, E., Kim, E., Miltenberger, R. G., ... & Stern, M. (2022). A nutrition education intervention to improve eating behaviors of children with autism spectrum disorder: Study protocol for a pilot randomized controlled trial. *Contemporary Clinical Trials*, 119, 106814.
64. Jang, S., Allen, T., Kim, E., O'Brien, K., Cho, I., & Ceylan, S. (2022). Measurement invariance of organizational citizenship behavior across gender. *Applied Psychology: An International Review*, 71(4), 1535-1564. <https://doi.org/10.1111/apps.12373>
63. \*Yi, Z., Chen, Y.-H. \*Yin, Y., \*Cheng, K., \*Wang, Y., \*Nguyen, D. T., \*Pham, T. V., & Kim, E. (2022). Brief research report: A comparison of robust tests for homogeneity of variance in factorial ANOVA. *Journal of Experimental Education*, 90(2), 505-520.
62. Kim, E., \*Nguyen, D. T., \*Liu, S., & Wang, Y. (2022). Evaluating the impact of item parceling on performance of factor mixture modeling. *Structural Equation Modeling*, 29(2), 207-217. <https://doi.org/10.1080/10705511.2021.1965483>
61. Wang, Y., Kim, E., & \*Yi, Z. (2022). Robustness of latent profile analysis with measurement noninvariance between profiles. *Educational & Psychological Measurement*, 82(1), 5-28. <https://doi.org/10.1177/0013164421997896>
60. \*Wang, Y., Kim, E., \*Chun, S., \*Joo, S-H, \*Lee, P., & Stark, S. (2022). Reconsidering multilevel latent class models: Can level-2 latent classes affect item response probabilities? *Journal of Experimental Education*, 90(1), 158-172. <https://doi.org/10.1080/00220973.2020.1737913>
59. Brysbaert, M., Bakk, Z., Buchanan, E. M., Drieghe, D., Frey, A., Kim, E., et al. (2021). Into a new decade. *Behavior Research Methods*, 53, 1–3. <https://doi.org/10.3758/s13428-020-01497-y>
58. †Cao, C., Kim, E., Chen, Y-H., & Ferron, J. (2021). Examining the impact of and sensitivity of fit indices to omitting covariates interaction effect in multilevel Multiple-Indicator Multiple-Cause models. *Educational and Psychological Measurement*, 81(5), 817-846. <https://doi.org/10.1177/0013164421992407>
57. Hadley, E. B., Dedrick, R. F., Dickinson, D. K., Kim, E., Hirsh-Pasek, K., & Golinkoff, R. M. (2021). Why don't children learn more words? Exploring the relations between child and word characteristics and preschoolers' word-learning. *Journal of Educational Psychology*, 77, 101332. <https://doi.org/10.1016/j.appdev.2021.101332>
56. Wang, Y., Hsu, H-Y., Kim, E. (2021). Investigating the impact of covariate inclusion on sample size requirements of factor mixture modeling: A Monte Carlo Simulation Study. *Structural Equation Modeling*, 28(5), 716-724.

55. von der Embse, N., Kim, E., \*Jenkins, A., \*Sanchez, A., Kilgus, S., & Eklund, K. (2021). Profiles of rater disagreement within universal screening in predicting distal outcomes. *Journal of Psychopathology and Behavioral Assessment*, 43(3), 632-645.
54. Kim, E., & von der Embse, N. (2021). Combined approach to multi-informant data using latent factors and latent classes: Trifactor mixture model. *Educational and Psychological Measurement*, 81(4), 728-755. <https://doi.org/10.1177/0013164420973722>
53. †Wang, Y., Kim, E., Ferron, J. M., Dedrick, R. F., Tan, T. X., & Stark, S. (2021). Testing measurement invariance across unobserved groups: The role of covariates in factor mixture modeling. *Educational and Psychological Measurement*, 81(1), 61-89.
52. Li, H., Wei, R., Ong, J. J., Kim, E., Weinstein, T. L., Ning, X., & Ma, W. (2021). Examining potential effects of non-occupational post-exposure prophylaxis (nPEP) on sexual behaviors of Chinese men who have sex with men: a cross-sectional study. *BMC Public Health*, 21:221.
51. \*French, K. A., Allen, T. D., \*Mancini, V. S., Miller, M. H., Kim, E. S., & Centeno, G. (2020). Faculty time allocation in relation to work-family balance and job attitudes: A latent profile approach. *Journal of Vocational Behavior*, 120, 103443.
50. Kim, E., Wang, Y., & \*Liu, S. (2020). The impact of measurement noninvariance on latent change score modeling: A Monte Carlo simulation study. *Structural Equation Modeling*, 27(6), 918-930.
49. Jang, S., Allen, T., Kim, E. S., & Cho, S. (2020). An examination of temporal order of helping behaviors and emotional exhaustion. *Stress and Health*, 36(5), 663-674.
48. \*Pham, T. V., Kromrey, J. D., Chen, Y.-H., Kim, E. S., \*Nguyen, D. T., & \*Wang, Y. (2020). ANOVA Robust: A macro for various robust approaches to testing mean differences in one-factor ANOVA models. *Journal of Statistical Software*, 95(1), 1-16. [Robust ANOVA group]
47. Tan, T. X., \*Yi, Z., Kim, E., \*Li, Z., & \*Cheng, K. (2020). Linguistic equivalence, construct validity, but lack measurement invariance: An illustration of challenges in cross-cultural research on adolescent adjustment. *Cross-Cultural Research*, 54(4), 323-345.
46. Li, H., Tucker, J., Ma, W., Kim, E. S., Marley, G., Wang, J., Kang, D., Liao, M., & Tang, W. Mediation analysis of peer norms, self-efficacy, and condom use among Chinese men who have sex with men: A parallel process latent growth curve model. (2020). *Archives of Sexual Behavior*, 49(1), 287-297. [The 2019 AARG Clark Taylor Professional Paper Prize in the Society for Medical Anthropology]
45. Li, H., Tucker, J., Ma, W., Kim, E. S., Marley, G., Kang, D., Liao, M., & Tang, W., & Jiang, B. (2020). Growth trajectories of peer norms, self-efficacy and condom use behavior, among sexually active Chinese men who have sex with men: Latent class analysis and growth mixture modeling. *AIDS and Behavior*, 24(3), 854-865.
44. \*Nguyen, D. T., Kim, E., \*Wang, Y., \*Pham, T. V., Chen, Y.-H., & Kromrey, J. D. (2020). Empirical comparison of tests for one-factor ANOVA under heterogeneity and non-normality: A Monte Carlo study. *Journal of Modern Applied Statistical Methods*, 18(2), eP2906. [Robust ANOVA group].
43. \*Joo, S.-H., & Kim, E. S. (2019). Impact of the strict invariance violations when testing a group mean difference and measurement invariance using MIMIC. *Behavior Research Methods*,

- 51(6), 2688-2699. [Fall 2015 SEM course project]
42. von der Embse, N., Kim, E. S., Kilgus, S., Dedrick, R., & \*Sanchez, A. (2019). Multi-informant universal screening: Evaluation of rater, item, and construct variance using a trifactor model. *Journal of School Psychology, 77*, 52-66.
  41. †Cao, C., Kim, E. S., Chen, Y-H., Ferron, J., & Stark., S. (2019). Exploring the test of covariate moderation effects in multilevel MIMIC models. *Educational and Psychological Measurement, 79*(3), 512-544.
  40. Kim, E. S., & \*Wang, Y. (2019). Investigating sources of heterogeneity with 3-step multilevel factor mixture modeling: Beyond testing measurement invariance in cross-national studies. *Structural Equation Modeling, 26*(2), 165-181.
  39. Lee, S-H., Carey, S., Lazinski, M., & Kim, E. S. (2019). An integrative intervention program for college musicians and kinematics in cello playing. *European Journal of Integrative Medicine, 25*(1), 34-40.
  38. \*Nguyen, D., Kim, E. S., & Chen, Y.-H. (2018). Can One Test Fit All? Responses to the Article “Striving for Simple but Effective Advice for Comparing the Central Tendency of Two Populations” (Ruxton & Neuhäuser, 2018). *Journal of Modern Applied Statistical Methods, 17*(2), eP2822. doi: 10.22237/jmasm/1552331481
  37. \*Wang, Y., \*Pham, T. V., \*Nguyen, D. T., Kim, E. S., Chen, Y-H., Kromrey, J. D., \*Yi, Z., & \*Yin, Y. (2018). Evaluating the efficacy of conditional analysis of variance under non-normality and heterogeneity. *Journal of Modern Applied Statistical Methods, 17*(2), eP2701. [Robust ANOVA group]
  36. Kim, E. S., \*Wang, Y., & Kiefer, S. M. (2018). Cross-level group measurement invariance when groups are at different levels of multilevel data. *Educational and Psychological Measurement, 78*(6), 973-997.
  35. \*Wang, Y., Kim, E. S., Dedrick, R., Ferron, J., & Tan, T. (2018). A multilevel bifactor approach to construct validation of the mixed-format Students Confident in Mathematics Scale. *Educational and Psychological Measurement, 78*(2), 253-271. [Doctoral qualifying exam]
  34. \*Jang, S. R., Kim, E. S., \*Cao, C., Allen, T., Cooper, C. Lapierre, L., et al. (2017). Measurement invariance of life satisfaction across 26 countries. *Journal of Cross-Cultural Psychology, 48*(4), 560-576. [Fall 2014 SEM course project]
  33. Kim, E. S., \*Cao, C., \*Wang, Y., & \*Nguyen, D. T. (2017). Measurement invariance testing with many groups: A comparison of five approaches. *Structural Equation Modeling, 24*(4), 524-544.
  32. Tan, T. X., Kim, E. S., Baggerly, J., \*Mahoney, E. E., & \*Rice, J. (2017). Beyond adoption status: Post-adoptive parental involvement and children’s reading and math performance from kindergarten to first grade. *American Journal of Orthopsychiatry, 87*(3), 337-346.
  31. \*Li, I., Chen, Y-H., \*Wang, Y., \*Rodriguez de Gil, P., \*Pham, T. V., \*Nguyen, D. T., Kim, E. S., & Kromrey, J. D. (2017). JMASM 47: ANOVA\_HOV: A SAS macro for testing homogeneity of variance in one-factor ANOVA models. *Journal of Modern Applied Statistical Methods, 16*(2), 506-539. doi: 10.22237/jmasm/1509496080 [Robust ANOVA group]
  30. Kim, E. S. & \*Wang, Y. (2017). Class enumeration and parameter recovery of growth mixture

- modeling and second-order growth mixture modeling in the presence of measurement noninvariance between latent classes. *Frontiers in Psychology*, 8:1499. <https://doi.org/10.3389/fpsyg.2017.01499>
29. \*Wang, Y. & Kim, E. S. (2017). Evaluating model fit and structural coefficient bias: A Bayesian approach to multilevel bifactor model misspecification. *Structural Equation Modeling*, 24(5), 699-713. [Fall 2014 SEM course project]
  28. \*Wang, Y., \*Rodriguez de Gil, P., Chen, Y-H., Kromrey, J. D., Kim, E. S., \*Nguyen, D. T., \*Pham, T. V., & Romano, J. (2017). Comparing the performance of approaches for testing the Homogeneity of Variance assumption in one-factor ANOVA models. *Educational and Psychological Measurement*, 77(2), 305-329. [Robust ANOVA group]
  27. †Chun, S. Stark, S., Kim, E. S. & Chernyshenko, S. (2016). MIMIC methods for detecting DIF among multiple groups: Exploring a new sequential-free baseline procedure. *Applied Psychological Measurement*, 40(7), 486-499.
  26. Kim, E. S., Dedrick, R. F., \*Cao, C. & Ferron, J. M. (2016). Multilevel factor analysis: Reporting guidelines and a review of reporting practices. *Multivariate Behavioral Research*, 51(6), 881-898.
  25. Kim, E. S., \*Joo, S-H., \*Lee, P., \*Wang, Y., & Stark, S. (2016). Measurement invariance testing across between-level latent classes using multilevel factor mixture modeling. *Structural Equation Modeling*, 23(6), 870-887. <https://doi.org/10.1080/10705511.2016.1196108>
  24. Blake, J. J., Kim, E. S., Lund, E. M., Zhou, Q., Kwok, O., & Benz, M. R. (2016). Predictors of bully victimization in students with disabilities: A longitudinal examination using a national dataset. *Journal of Disability Policy Studies*, 26(4), 199-208.
  23. Tan, T. X., Camras, L. A., & Kim, E. S. (2016). Pre-adoption adversity and long-term clinical-range behavior problems in adopted Chinese girls. *Journal of Counseling Psychology*, 63(3), 319-330.
  22. \*Xu, X., Kim, E. S., & Lewis, J. (2016). Sex difference in spatial ability for college students and exploration of measurement invariance. *Learning and Individual Differences*, 45, 176-184. [Fall 2013 SEM course project]
  21. \*Nguyen, D., Kim, E. S., \*Rodriguez de Gil, P., \*Kellermann, A. P., Chen, Y.-H., Kromrey, J. D., & \*Bellara, A. P. (2016). Parametric tests for two population means under normal and non-normal distributions. *Journal of Modern Applied Statistical Methods*, 15(1), Article 9. [t-test group]
  20. †Im, M. H., Kim, E. S., Kwok, O., Yoon, M., & Willson, V. L. (2016). Impact of not fully addressing cross-classified multilevel structure in testing measurement invariance: A Monte Carlo study. *Frontiers in Psychology*, 7, number 328, 1-15.
  19. Kim, E. S., & \*Cao, C. (2015). Testing group mean differences of latent variables in multilevel data using multiple-group multilevel CFA and multilevel MIMIC modeling. *Multivariate Behavioral Research*, 50(4), 436-456.
  18. Kim, E. S., Yoon, M., Wen, Y., Luo, W., & Kwok, O. (2015). Within-level group factorial invariance in multilevel data: Multilevel factor mixture and multilevel MIMIC models. *Structural Equation Modeling*, 22(4), 603-616.

17. \*Rodriguez de Gil, P., \*Bellara, A. P., \*Lanehart, R. E., \*Lee, R. S., Kim, E. S., & Kromrey, J. D. (2015). How do propensity score methods measure up in the presence of measurement error: A Monte Carlo study. *Multivariate Behavioral Research*, *50*(5), 520-532. [Propensity Score Analysis group]
16. Asunda, P. A., Kim, E. S., & Westberry, R. (2015). Technology student characteristics: Course taking patterns as a pathway to STEM disciplines. *Journal of Technology Education*, *27*(1), 2-22.
15. \*Shoraka, M., Arnold, R. Kim, E. S., Kromrey, J. D., Salinitri, G. (2015). Parental characteristics and the achievement gap in mathematics: Hierarchical linear modeling analysis of Longitudinal Study of American Youth (LSAY). *Alberta Journal of Educational Research*, *61*(3), 280-293. [Spring 2013 MLM course project]
14. Goddard, R. D., Goddard, Y. L., Kim, E. S., & Miller, R. J. (2015). A theoretical and empirical analysis of the roles of instructional leadership, teacher collaboration, and collective efficacy beliefs in support of student learning. *American Journal of Education*, *121*(4), 501-530.
13. Raffaele Mendez, L., Kim, E. S., Ferron, J., & Woods, B. (2015). Altering school progression through delayed entry or kindergarten retention: Propensity score analysis of long-term outcomes. *Journal of Educational Research*, *108*(3), 186-203.
12. Kim, E. S., & Willson, V. L. (2014b). Testing measurement invariance across groups in longitudinal data: Multi-group second-order latent growth model. *Structural Equation Modeling*, *21*(4), 566-576.
11. Kim, E. S., & Willson, V. L. (2014a). Measurement invariance across groups in latent growth models. *Structural Equation Modeling*, *21*(3), 408-424.
10. Yoon, M., & Kim, E. S. (2014). A comparison of sequential and non-sequential specification searches in testing factorial invariance. *Behavior Research Methods*, *46*(4), 1199-1206.
9. Jacob, R., Goddard, R. D., & Kim, E. S. (2014). Assessing the use of aggregate data in the evaluation of school-based intervention: Implications for evaluation research and state policy regarding public use data. *Educational Evaluation and Policy Analysis*, *36*(1), 44-66.
8. Kim, E. S., Kwok, O., & Yoon, M. (2012). Testing factorial invariance in multilevel data: A Monte Carlo study. *Structural Equation Modeling*, *19*(2), 250-267.
7. Kim, E. S., Yoon, M., & Lee, T. (2012). Testing measurement invariance using MIMIC: The likelihood ratio test with a critical value adjustment. *Educational & Psychological Measurement*, *72*(3), 469-492.
6. Graves, S., Blake, J. J., & Kim, E. S. (2012). Differences in parent and teacher ratings of preschool problem behavior in a national sample: Implications for practicing school psychologists. *Journal of Early Intervention*, *34*(3), 151-165.
5. Kim, E. S., & Yoon, M. (2011). Testing measurement invariance: A comparison of multiple-group categorical CFA and IRT. *Structural Equation Modeling*, *18*(2), 212-228.
4. Thoemmes, F., & Kim, E. S. (2011). A systematic review of propensity score methods in the social sciences. *Multivariate Behavioral Research*, *46*(1), 90-118.

3. Blake, J. J., Kim, E. S., & Lease, A. M. (2011). Exploring the incremental validity of nonverbal social aggression: The utility of peer nominations. *Merrill-Palmer Quarterly*, 57(3), 293-318.
2. Blake, J. J., Kim, E. S., McCormick, A. S., & Hayes, D. (2011). The dimensionality of social victimization: A preliminary investigation. *School Psychology Quarterly*, 26(1), 56-69.
1. Kim, E. S., & Willson, V. L. (2010). Evaluating pretest effects in pre-post studies. *Educational and Psychological Measurement*, 70(5), 744-759.

#### **Peer Reviewed Journal Articles – Accepted**

Kim, E., Wang, Y., & Hsu, H-Y. A systematic review of and reflection on the applications of factor mixture modeling. *Psychological Methods*.

Hadley, E. B., Liu, S., Kim, E., McKenna, M. (accepted). State-funded pre-k and children's language and literacy development: The case of COVID-19. *Educational Researcher*.

Mennes, H., von der Embse, N., Kim, E., Sundar, P., Hines, D., & Welliver, M. (accepted). Are "well" teachers "better" teachers?: A look into the relationship between first-year teacher emotion and use of evidence-based instructional strategies. *School Psychology*.

#### **Peer Reviewed Journal Articles – Submitted**

Blake, J., Kim, E., Epstein, R., Howard, S., Reyes, J., & Gilreath, T. (R&R). The effect of school discipline on the reproductive health of black girls. *Journal of School Psychology*.

Blake, J., Kim, E., Marchbanks III, M., Swift, C., Booth, E., Eason, J., Mendoza, M., & Peguero, A. (R&R). An empirical test of the school to prison pipeline. *School Psychology Review*.

Jang, S., Kim, E. S., Allen, T., & Bolino, M. C. (R&R). Helping behaviors and emotional exhaustion: An examination across four waves of data. *Journal of Organizational Behaviors*.

Kim, E., von der Embse, N., & Kiefer, S. M. (reject). When teachers and students disagree: Applying polynomial structural equation modeling to disentangle rater incongruence. *Journal of School Psychology*.

Wang, Y., Kim, E., & Hsu, H-Y. The impact of prior specifications on performance of Bayesian factor mixture modeling. *Behavior Research Methods*.

Gray, H. L., Jimenez, C., Pang, T., Kim, E., Shaffer-Hudkins, E., Agazzi, H., Rosado, A., Klinger, A., Young, C., Kandil, C., Won, S., Perez, A., Miltenberger, R. G., & Stern, M. (submitted). Recruitment feasibility and baseline findings of a pilot randomized controlled trial: Autism Eats. *Pediatrics*, XXX, XXX.

Cao, C., Wang, Y., & Kim, E. (submitted). Multilevel Factor Mixture Modeling: Illustrations for Multilevel Constructs. *Structural Equation Modeling – Teachers Corner*.

#### **Book Chapters - Published**

9. Wolgemuth, J. R., Chen, Y-H., Rodriguez-Campos, L., Ferron, J., Kim, E., Dedrick, R. F., & Lamb, D. (2023). What are we teaching for? Humility and responsibility in social science research. In M. Nind (Ed.), *Handbook of Teaching and Learning Social Research Methods* (pp. 198-212). Edward Algar.

8. Ferron, J., \*Wang, Y., \*Yi, Z., \*Yin, Y., Kim, E., & Dedrick, R. F. (2022). Reporting results. *Multilevel Modeling Methods with Introductory and Advanced Applications*. Charlotte, NC: Information Age Publishing, Inc.
7. Lee, S-H. & Kim, E. (2022). Social science research. *Scholarly Research for Musicians: Disciplinary-Specific Practices*. Routledge.
6. Lee, S-H. & Kim, E. (2022). Descriptive statistics. *Scholarly Research for Musicians: Disciplinary-Specific Practices*. Routledge.
5. Lee, S-H. & Kim, E. (2022). Inferential statistics. *Scholarly Research for Musicians: Disciplinary-Specific Practices*. Routledge.
4. Lopez, E., Lee, S. H., Bahr, R., Carey, S. L., Mott, B., Fults, A., ... & Kim, E. S. (2020). Breathing Techniques in Collegiate Vocalists: The Effects of the Mind-Body Integrated Exercise Program on Singers' Posture, Tension, Efficacy, and Respiratory Function. In S-H Lee, M. L. Morris, & S. V. Nicosia (Eds.), *Perspectives in Performing Arts Medicine Practice: A Multidisciplinary Approach* (pp. 111-125). Springer.
3. Blake, J. J., Smith, D. M., Marchbanks, M. P., Seibert, A. L., Wood, S. M., & Kim, E. S. (2016). Does student teacher racial/ethnic match impact Black students' discipline risk? In R. J. Skiba, K. Mediratta, & M. K. Rausch (Eds.), *Inequality in School Discipline: Research and Practice to Reduce Disparities* (pp. 79-98). New York: Palgrave-Macmillan.
2. Kim, S., Sturman, E., & Kim, E. S. (2015). Structural equation modeling (SEM): Principles, processes, and practices. In K. D. Strang (Ed.), *Palgrave Handbook of Research Design in Business and Management* (pp. 153-172). New York: Palgrave-Macmillan.
1. Willson, V. L., & Kim, E. S. (2010). Pretest sensitization. In N. Salkind (Ed.), *Encyclopedia of Research Design: Vol.2* (pp. 1091-1094). Thousand Oaks, CA: Sage Publications.

### **Book Chapters – Accepted**

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### **CONFERENCE PRESENTATIONS/SYMPOSIA**

- \*Schoffel, M., \*Waiwood, A., \*Smith, C., Allen, T. D., Miller, M. H., French, K. A., Kim, E., Centeno, G. (2023, Nov 8). *Sleep health, vitality, and work-family balance: A person-centered approach* [poster presentation]. Work, Stress, and Health Conference 2023 (virtual).
- Mahon, E. & Kim, E. (2023, Apr 13-16). *Universal screening for special educational needs in primary general education in Barbados*. [Paper presentation]. AERA Annual Meeting 2023, Chicago, IL.
- Kim, E., Dedrick, R. F., Mahon, E., Hines, C. V., Leacock, C. J., Warricon, S. J., & Smith, P. (2023, Apr 13-16). *Evaluating validity evidence and measurement invariance of the elementary school climate assessment instrument across five Caribbean countries*. [Paper presentation]. AERA Annual Meeting 2023, Chicago, IL.
- Kim, E., Wang, Y., & Hsu, H-Y. (2023, Apr 13-16). *A systematic review of and reflection on the applications of factor mixture modeling* [Poster presentation]. AERA Annual Meeting 2023, Chicago, IL.

- Gray, H.L., Jimenez, C., Harris, M., Pang, T., Waters, K., Agazzi, H., Shaffer-Hudkins, E., Kim, E., Miltenberger, R., & Stern, M. (2022, June). *Integrated Nutrition Education Through the Part C Early Intervention Services for Children with Autism Spectrum Disorder: Material Reviews Involving Providers and Parents*. [Abstract] *Current Developments in Nutrition*, 6(Suppl. 1), 835. Presented at Nutrition 2022, the American Society for Nutrition conference.
- Cao, C., Wang, Y., & Kim, E. (2022, April). *Multilevel Factor Mixture Modeling: Illustrations for Multilevel Constructs*. Paper presented at the annual meeting of 2022 AERA Annual Meeting, San Diego, CA.
- \*Liu, S., Dedrick, R. F., Ferron, J. M., Kim, E., Chen, Y-H., Wolgemuth, J. R., Veguilla, M., Topsakal, E., Yin, Y., & Li, G. (2022, April). *A Review of Syllabi of University Courses Focusing on Causal Inference*. Paper presented at the annual meeting of 2022 AERA Annual Meeting, San Diego, CA.
- Wang, Y., Cao, C., & Kim, E. (2021, Apr 8-12). *Evaluating Performance of Factor Mixture Modeling and Multiple-Causes-Multiple-Indicators (MIMIC) in Measurement Invariance Testing With Multiple Covariates*. Paper presented at the annual meeting of 2021 AERA Annual Meeting, (virtual).
- Wang, Y., Kim, E., & Hsu, H-Y. (2021, Apr 8-12). *Investigating Impact of Covariate Inclusion on Sample Size Requirements of Factor Mixture Modeling*. Paper presented at the annual meeting of 2021 AERA Annual Meeting, (virtual).
- Kim, E., Wang, Y., & \*Liu, S. (2020, April 17-21). *The Impact of Measurement Noninvariance on Latent Change Score Modeling: A Monte Carlo Simulation Study* [Paper Session]. AERA Annual Meeting San Francisco, CA. <http://tinyurl.com/snm2e8d> (Conference Canceled)
- \*Nguyen, D. T., & Kim, E. (2020, April 17-21). *Empirical Investigation of Three Statistical Models to Test Measurement Invariance with Partially Nested Data* [Paper Session]. AERA Annual Meeting San Francisco, CA. <http://tinyurl.com/sk6rjhp> (Conference Canceled)
- Wang, Y., Kim, E., & \*Yi, Z. (2020, April 17-21). *Robustness of Latent Profile Analysis with Measurement Noninvariance Between Profiles* [Paper Session]. AERA Annual Meeting San Francisco, CA. <http://tinyurl.com/rvb22qb> (Conference Canceled)
- \*Cao, C., Kim, E., Chen, Y., & Ferron, J. M. (2020, April 17-21). *Exploring the Impact of Omitting Covariates Interaction Effect in Multilevel Multiple Indicators, Multiple Causes (MIMIC) Models* [Paper Session]. AERA Annual Meeting San Francisco, CA <http://tinyurl.com/sywucdq> (Conference Canceled)
- \*Alamri, A., & Kim, E. S. (2019, August). *Testing Cross-Cultural Measurement Invariance: To Approximate or Not to Approximate?* Paper presented at the annual meeting of 2019 World Education Research Association, Tokyo, Japan.
- Kim, E. S., & \*Wang, Y. (2019, April). *Investigating sources of heterogeneity with 3-step multilevel factor mixture modeling: Beyond testing measurement invariance in cross-national studies*. Poster presented at the annual meeting of 2019 American Educational Research Association, Toronto, CA.
- \*Wang, Y., \*Chun, S., \*Joo, S-H, Lee, P., Kim, E. S., & Stark, S. (2019, April). *Evaluating latent class models when ignoring and accounting for clustering*. Paper presented at the annual meeting of 2019 American Educational Research Association, Toronto, CA.

- \*Mancini, V., \*French, K. A., Allen, T. D., Miller, M. H., Kim, E. S., & Centeno, G. (2018, June). *Job Crafting and Work-Family Balance Across Family Stages*. Poster presented at the annual meeting of 2018 Work and Family Researchers Network, Washington, D.C.
- \*Alamri, A., \*Wang, Y., Kim, E. S. (2018, April). *Examining source of measurement noninvariance in multilevel confirmatory factor analysis using multilevel multiple indicators multiple causes (MIMIC) modeling: A simulation study*. Poster presented at the annual meeting of 2018 American Educational Research Association, New York, NY.
- \*Wang, Y., & Kim, E. S. (2018, April). *Covariates in factor mixture modeling: Investigating measurement invariance across unobserved groups*. Poster presented at the annual meeting of 2018 American Educational Research Association, New York, NY.
- \*Yi, Z., \*Yin, Y., \*Cheng, K., \*Pham, T. V., \*Nguyen, D. T., \*Wang, Y., Kim, E. S., & Chen, Y.-H. (2018, April). *A Comparison of Robust Tests for Homogeneity of Variance in Factorial ANOVA*. Paper presented at the annual meeting of 2018 American Educational Research Association, New York, NY. [Robust ANOVA group]
- \*Wang, Y., Kim, E. S., \*Nguyen, D. T., \*Pham, T. V., Chen, Y.-H., \*Yi, Z., \*Yin, Y., & Kromrey, J. D., (2017, April). *Evaluating the efficacy of conditional analysis of variance under non-normality and heterogeneity*. Paper presented at the annual meeting of 2017 American Educational Research Association, San Antonio, TX. [Robust ANOVA group]
- \*French, K. A., \*Mancini, V. S., Allen, T. D., Miller, M. H., Centeno, G., & Kim, E. S. (2017, April). *Faculty time allocation: A latent profile approach*. Poster presented at the annual meeting of 2017 Society for Industrial and Organizational Psychology, Orlando, FL.
- \*Jang, S. et al. (2017, April). *Measurement invariance of work-family conflict and psychological well-being measures*. Symposium presented at the annual meeting for 2017 Society of Industrial and Organizational Psychology, Orlando, FL.
- \*Alamri, A. & Kim, E. S. (November, 2016). *A demonstration of five different approaches on estimating reliability coefficients with multilevel confirmatory factor analysis*. Paper presented at the annual meeting of 2016 Florida Educational Research Association, Lakeland, FL. [Summer 2016 Directed study]
- \*Wang, Y., & Kim, E. S. (2016, April). *Evaluating model fit and structural coefficient bias: A Bayesian approach to multilevel bifactor model misspecification*. Paper presented at the annual meeting of 2016 American Educational Research Association, Washington, DC. [Spring 2015 MLM course project]
- Kim, E. S., \*Cao, C., \*Wang, Y., & \*Nguyen, D. T. (2016, April). *Testing measurement invariance with many groups: An empirical comparison of five approaches*. Poster presented at the annual meeting of 2016 American Educational Research Association, Washington, DC.
- \*Nguyen, D. T., Kim, E. S., \*Pham, T. V., \*Wang, Y., Kromrey, J. D., & Chen, Y.-H. (2016, April). *Testing mean equality under heterogeneity and nonnormality*. Paper presented at the annual meeting of 2016 American Educational Research Association, Washington, DC. [Robust ANOVA group]
- \*Rodriguez de Gil, P., Kromrey, J. D., \*Joo, S.-H., \*Wang, Y., Kim, E. S., & \*Montgomery, J. (2016, April). *An empirical comparison of multiple imputation approaches for treating missing data in observational studies*. Poster presented at the annual meeting of 2016 American

- Educational Research Association, Washington, DC. [Propensity Score Analysis group]
- \*Wang, Y., \*Li, Y., & Kim, E. S. (November, 2015). *A cross-cultural study of students confidence in mathematics using a modified multiple-indicators multiple-causes approach on TIMSS 2011 data*. Paper presented at the annual meeting of 2015 Florida Educational Research Association, Orlando, FL.
- \*Pham, T. V., Kim, E. S., \*Nguyen, D. T., \*Wang, Y., Kromrey, J. D., & Chen, Y-H. (2015, September). *ANOVA\_Robust: A SAS Macro for various robust approaches to testing mean differences in one-factor ANOVA models*. Paper presented at the annual meeting of 2015 Southeast SAS Users Group, Savannah, GA. (Proceedings: 134-2015) [Robust ANOVA group]
- Kim, E. S., Kromrey, J. D., \*Joo, S.-H., \*Wang, Y., \*Montgomery, J., \*Lee, R., \*Rodriguez de Gil, P., \*Ashford, S., \*Lanehart, R., & \*Cao, C. (2015, August). *Propensity score analysis with missing data: A comparison of multiple imputation approaches*. Paper presented at the annual meeting of 2015 Joint Statistical Meetings, Seattle, WA. (Proceedings: 316951\_98130) [Propensity Score Analysis group]
- \*Wang, Y., & Kim, E. S. (2015, August). *Evaluation of model fit indices and structural coefficient bias with bifactor model misspecification*. Paper presented at the annual meeting of 2015 Joint Statistical Meetings, Seattle, WA. [Fall 2014 SEM course project]
- \*Montgomery, J., \*Ashford, S., \*Cao, C., \*Joo, S.-H., Kim, E. S., Kromrey, J. D., Lanehart, R., \*Lee, R., \*Rodriguez de Gil, P., & \*Wang, Y. (2015, May). *An empirical comparison of multiple imputation approaches for treating missing data in observational studies*. Paper presented at the annual meeting of 2015 Modern Modeling Methods Conference, Storrs, CT. [Propensity Score Analysis group]
- \*Rodriguez de Gil, P., Kromrey, J. D., Lanehart, R. E., Kim, E. S., \*Montgomery, J., \*Wang, Y., \*Lee, R., \*Cao, C., & \*Ashford, S. (2015, April). *An empirical comparison of multiple imputation approaches for testing missing data in observational studies*. Paper presented at the annual meeting of 2015 SAS Global Forum, Dallas, TX. (Proceedings: 3300-2015) [Propensity Score Analysis group]
- \*Nguyen, D., Kim, E. S., & \*Pham, T. V. (2015, April). *Performance of five SEM Models with a small number of indicators: A Monte Carlo study*. Poster presented at the annual meeting of 2015 American Educational Research Association, Chicago, IL. [Fall 2013 SEM course project]
- \*Hicks, T., Kim, E. S., MacDonald, G., Kromrey, J. D., \*Joo, S., \*Holmes, H., & Archer, S. (2015, April). *Testing applications of Bayesian statistics with convenience priors in multilevel analysis of small data sets with complex structures: A Monte Carlo study*. Paper presented at the annual meeting of 2015 American Educational Research Association, Chicago, IL. (Proceedings: 935006.1) [Bayesian group]
- \*Wang, Y., \*Rodriguez de Gil, P., Bellara, A. O., Chen, Y-H., \*Hicks, T., \*Holmes, H., Kim, E. S., Kromrey, J. D., \*Li, I., \*Nguyen, D. T., \*Pham, T. V., & Romano, J. (2015, April). *Homogeneity of variance assumption: An empirical investigation of 14 approaches in one-factor analysis of variance models*. Poster presented at the annual meeting of 2015 American Educational Research Association, Chicago, IL. [Robust ANOVA group]
- \*Kellermann, A., & Kim, E. S. (2014, November). *Evaluating approximate fit indexes of measurement invariance testing across multiple groups with binary data*. Paper presented at

- the annual meeting of 2014 Florida Educational Research Association, Cocoa Beach, FL. [Fall 2014 SEM course project]
- \*Craig, B., & Kim, E. S. (2014, November). *Applied DIF detection using MIMIC models: Comparing scale purification and pure short anchor procedures using real data*. Paper presented at the annual meeting of 2014 Florida Educational Research Association, Cocoa Beach, FL. [Fall 2014 SEM course project]
- \*Nguyen, D., \*Kellermann, A. P., \*Rodriguez de Gil, P., Kim, E. S., & Kromrey, J. D. (2014, October). *Strimmed\_t: A SAS Macro for the symmetric trimmed t test*. Paper presented at the Southeast SAS Users Group, Myrtle Beach, SC. (Proceedings: SD-79). [t-test group]
- Bellara, A. P., Kromrey, J. D. Kim, E. S., Ferron, J. M., & Karanxha, Z. (2014, August). *Comparing propensity score methods using multilevel modeling: A Monte Carlo study*. Paper presented at the Joint Statistical Meetings, Boston.
- \*Hicks, T., MacDonald, G., Kromrey, J. D., Kim, E. S., Romano, J., & Archer, S. (2014, May). *Testing applications of Bayesian statistics with informed priors in multilevel analysis of small data sets with complex structures: A Monte Carlo study*. Paper presented at the annual meeting of 2014 Modern Modeling Methods Conference, Storrs, CT. [Bayesian group]
- \*Holmes, H., \*Rodriguez de Gil, P., \*Li, I., Bellara, A., Chen, Y.-H., \*Hicks, T., & Kim, E. S. (2014, May). *Testing the homogeneity of variance assumption: An investigation of the performance of ten different approaches in one-factor ANOVA models*. Paper presented at the annual meeting of 2014 Modern Modeling Methods Conference, Storrs, CT. [Robust ANOVA group]
- Kromrey, J. D., Kim, E. S., & \*Rodriguez de Gil, P. (2014, May). Propensity score methods in the presence of measurement error. In J. D. Kromrey (Chair), *Propensity score analysis: Empirical investigations of common problems and their impacts on treatment effect estimates*. Symposium conducted at the annual meeting of 2014 Modern Modeling Methods Conference, Storrs, CT. [Propensity Score Analysis group]
- \*Cao, C., & Kim, E. S. (2014, April). *Estimation of interactions between covariates of MIMIC models with multilevel data*. Paper presented at the annual meeting of 2014 American Educational Research Association, Philadelphia, PA. [Fall 2013 SEM course project]
- \*Pham, T. V., \*Rodriguez de Gil, P., \*Nguyen, D., Kim, E. S., Kromrey, J. D., & Romano, J. (2014, April). *An empirical study of accuracy and precision in the estimation of difference between correlated proportions*. Poster presented at the annual meeting of 2014 American Educational Research Association, Philadelphia, PA. [Correlated Proportion group]
- \*Cao, C., & Kim, E. S. (2014, April). *Comparing MLR to Satorra-Bentler estimation in MIMIC with nonnormal data*. Poster presented at the annual meeting of 2014 National Council on Measurement in Education, Philadelphia, PA. [Spring 2014 Direct Study]
- \*Wu, P.-C., \*Rodriguez de Gil, P., \*Pham, T., \*Nguyen, D., Romano, J., Kromre, J. D., & Kim, E. S. (October, 2013). *SAS Macros CORR\_P and TANGO: Interval estimation for the difference between correlated proportions in dependent samples*. Paper presented at the annual meeting of the Southeast SAS Users Group (SESUG), St. Petersburg, FL. (proceedings: SD-03) [Correlated Proportion group]
- Kromrey, J. D., \*Rodriguez de Gil, P., Kim, E. S., \*Bellara, A., \*Lanehart, R. E., \*Hicks, T., & Lee, R. S. (2013, August). *Covariate measurement error in propensity score analysis: An empirical*

- investigation of the impacts on the treatment effect estimates*. Poster presented at the annual meeting of Joint Statistical Meetings, Montreal, Canada. [Propensity Score Analysis group]
- \*Rodriguez de Gil, P., Chen, Y.-H., Kim, E. S., \*Nguyen, D., \*Kellermann, A., \*Bellara, A., & Kromrey, J. D. (2013, August). *Parametric test for two population means: An empirical comparison of Type I error control and statistical power*. Paper presented at the annual meeting of Joint Statistical Meetings, Montreal, Canada. [t-test group]
- \*Wen, Y., Luo, W., Kim, E. S., & Kwok, O. (2013, July). *Testing measurement non-invariance in multilevel data with a within-level violator*. Paper presented at the annual meeting of International Meeting Psychometric Society, Arnhem, Netherlands.
- Kim, E. S., \*Rodriguez de Gil, P., Kromrey, J. D., \*Lanehart, R. E., \*Bellara, A., & Lee, R. S. (2013, May). *The impact of measurement error on propensity score analysis: An empirical investigation of fallible covariates*. Paper presented at the annual meeting of Modern Modeling Methods Conference, Storrs, CT. [Propensity Score Analysis group]
- Kim, E. S., Kwok, O., & Yoon, M. (2013, April). *Within-level group factorial invariance in multilevel data: Multilevel factor mixture and multilevel MIMIC models*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.
- \*Rodriguez de Gil, P., \*Nguyen, D., Kim, E. S., \*Kellermann, A. P., \*Bellara, A. P., Chen, Y.-H., & Kromrey, J. D. (April, 2013). *Testing two population means: Another look at alternative approaches*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA. (proceedings: 608940) [t-test group]
- \*Kellermann, A. P., \*Bellara, A. P., \*Rodriguez de Gil, P., \*Nguyen, D., Kim, E. S., Chen, Y.-H., & Kromrey, J. D. (April, 2013). *Variance heterogeneity and non-normality: How SAS PROC TTEST can keep us honest*. Paper presented at the annual meeting of the SAS Global Forum, San Francisco, CA. (proceeding: 228-2013) [t-test group]
- \*Bellara, A. P., \*Rodriguez de Gil, P., Kim, E. S., \*Lanehart, R. E., Lee, R. S., & Kromrey, J. D. (2013, April). *How do propensity score methods measure up in the presence of measurement error: A Monte Carlo study*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA. (proceedings: 608794) [Propensity Score Analysis group]
- \*Hicks, T., \*Rodriguez de Gil, P., Kromrey, J. D., Kim, E. S., \*Lanehart, R. E., & \*Bellara, A. P. (2013, February). *How to use propensity scores to strengthen estimates of treatment effects: A guided tour of the propensity score landscape for real-world analysts*. Poster presented at the annual meeting of Statistical Practice, New Orleans, LA. [Propensity Score Analysis group]
- \*Rodriguez de Gil, P., \*Lanehart, R. E., \*Bellara, A. P., Kromrey, J. D., Kim, E. S., Borman, K. M., & \*Lee, R. S. (August, 2012). *Propensity score analysis with nested data: Comparing single and multilevel estimates*. Poster presented at the annual meeting of Joint Statistical Meetings, San Diego, CA. (proceedings: 5060-5072). [Propensity Score Analysis group]
- \*Lanehart, R. E., \*Rodriguez de Gil, P., Kim, E. S., \*Bellara, A. P., Kromrey, J. D., & \*Lee, R. S. (April, 2012). *Propensity score analysis and assessment of propensity score approaches using SAS procedures*. Paper presented at the annual meeting of the SAS Global Forum, Orlando, FL. (proceedings: 314-2012) [Propensity Score Analysis group]
- \*Nguyen, D., \*Rodriguez de Gil, P., Kim, E. S., \*Bellara, A. P., \*Kellermann, A., Chen, Y.-H.,

- Kromrey, J. D. (October, 2012). *PROC TTEST® (Old Friend), what are you trying to tell us?* Poster presented at the annual meeting of the Southeast SAS Users Group (SESUG), Durham, NC. (proceedings: PO-10) [t-test group]
- Schroeder, P. A., Goddard, R. D., Miller, R. J., Kim, E. S., Madsen, J., & Goddard, Y. L. (2012, April). *Assessing the fidelity of a principal professional development program: Design, delivery, and receipt.* Paper presented at the annual meeting of the American Educational Research Association, Vancouver, Canada.
- Miller, R. J., Goddard, R. D., Kim, E. S., Goddard, Y. L., Madsen, J., & Schroeder, P. A. (2011, November). *Evaluation of principals' professional development learning: Results from a randomized control trial.* Paper presented at the annual meeting of the University Council for Educational Administration, Pittsburgh, PA.
- Blake, J. J., Kim, E. S., Lund, E., & Benz, M. R. (2011, August). *The forgotten minority: Exploring prevalence rates and risk for victimization in children with disabilities.* Poster presented at the annual meeting of the American Psychological Association, Washington, D. C.
- Yoon, M., & Kim, E. S. (2011, July). *A Comparison of sequential and nonsequential specification searches in testing factorial invariance.* Poster presented at the international meeting of Psychometric Society, Hong Kong.
- Jacob, R., Goddard, R., & Kim, E. S. (2010). *Using state assessment data to assess the impact of school-based interventions: A comparison of student-level and school-level analyses.* Paper presented at the annual meeting of the Association for Public Policy Analysis and Management, Boston, MA.
- Kim, E. S., & Thoemmes, F. (2010, August). *The use of propensity score matching in the social sciences: A meta-analysis.* Psychological Science Graduate Superstars – Datablitz, the American Psychological Association, San Diego, CA. [Invited presentation]
- Kim, E. S. (2009, February). *Meta-analysis: School effects on student academic achievement in multilevel models.* Paper presented at the annual meeting of the Southwest Educational Research Association, San Antonio, TX.
- Kim, E. S. (2008, February). *Conceptual approach to multiple regression through graphical illustrations: Ordinary least squares and underlying assumptions.* Paper presented at the annual meeting of the Southwest Educational Research Association, New Orleans, LA.

## GRANTS

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### Grants - Funded

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|---|-----------|
| Institute of Education Sciences<br>Role: Co-I<br>Amount: \$2,000,000<br><i>Project MIDAS: Development of a Multi-Informant Decisional Assessment System</i> (PI: Nathaniel von de Embse, Ph.D.) | 2021-2025 |
| National Institutes of Health<br>Role: Co-PI<br>Amount: \$400,689<br><i>An integrated nutrition intervention through the Part C Early Intervention Services to promote</i>                      | 2021-2023 |

*healthy eating habits for children with ASD* (PI: Heewon Gray, Ph.D.)

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|---|-----------|
| Spencer Foundation  | 2021-2023 |
| Role: Co-PI   |           |
| Amount: \$50,000  |           |
| <i>Gauging the Benefits of State-Funded Preschool for Early Language and Literacy: The Case of COVID-19</i> (PI: Elizabeth Hadley, Ph.D.)   |           |
| The United States Agency for International Development (USAID)  | 2021-2024 |
| Role: Key Personnel   |           |
| Amount: \$3,600,000   |           |
| <i>Caribbean Educational Research Initiative</i> (PI: Warrican, Ph.D.)  |           |
| AERA Division E, Counseling and Human Development (Seed Grant Program)  | 2021-2022 |
| Role: Co-PI   |           |
| Amount: \$4,000   |           |
| <i>The Impact of COVID-19 on Young Children's Early Literacy Development</i> (PI: Elizabeth Hadley, Ph.D.)  |           |
| Women's Health Collaborative Foundation, USF Health   | 2019-2020 |
| Role: Co-I  |           |
| Amount: \$15,000  |           |
| <i>Feeding Autism: an early childhood nutrition intervention for children with autism spectrum disorder (ASD) – testing feasibility and acceptability</i> (PI: Heewon Gray, Ph.D.)  |           |
| American Educational Research Association   | 2017-2018 |
| Role: PI  |           |
| Amount: \$20,000  |           |
| <i>Beyond Testing Measurement Invariance in Cross-National Comparative Studies with International Education Data: Investigating Sources of Heterogeneity</i>                        |           |
| National Science Foundation   | 2015-2018 |
| Role: Co-I  |           |
| Amount: \$380,000   |           |
| <i>SBP: Broadening Participation of STEM Faculty Through Work Design</i> (PI: Dr. Tammy Allen)  |           |
| Office of Juvenile Justice Department   | 2016      |
| Role: Technical Consultant  |           |
| <i>Assessing the Role of School Discipline in Disproportionate Minority Contact with the Juvenile Justice System</i> (the Public Policy Research Institute at Texas A&M University) |           |

### Grants – Contracts

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|--|-----------|
| Florida Department of Education            | 2022-2024 |
| Role: Measurement and Statistics Personnel |           |
| <i>Development of Resilience Scale</i>     |           |
| Florida Department of Education            | 2023-2024 |
| Role: Measurement and Statistics Personnel |           |
| <i>VPK Project</i>                         |           |
| Hillsborough County Public Schools         | 2011-2012 |
| Role: Co-PI (20%)                          |           |

Amount: \$25,000

*Race to the Top Districted-Developed Assessments for Hard-to-Measure Content Areas*  
*Project B: Physical Education/Health Education 2*  
*Project G: Career and Technical Education*

### Grants - Submitted

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| Department of Defense  | 2023 |
| Role: Co-I   |      |
| Amount: \$600,000  |      |
| <i>"Autism Eats" Nutrition Intervention to Improve Mealtime and Dietary Behaviors in Toddlers with ASD: A Statewide Randomized Controlled Trial (PI: Heewon Gray, Ph.D.)</i>               |      |
| Institute of Education Sciences  | 2023 |
| Role: Co-PI  |      |
| Amount: \$1,700,000  |      |
| <i>Understanding Pre-K Classroom Language Resources: A Sensing Technology Approach (PI: Elizabeth Hadley, Ph.D.)</i>   |      |
| National Science Foundataion   | 2023 |
| Role: Co-PI  |      |
| Amount: \$605,708  |      |
| <i>Collaborative Research: Using Sensing Technology and Automated Speech Recognition to Capture Teacher Language Interactions in Diverse Pre-K Classrooms (PI: Elizabeth Hadley, Ph.D)</i> |      |
| NIH  | 2023 |
| Role: Co-PI  |      |
| Amount: \$875,000  |      |
| <i>The effect of remote learning during the COVID-19 pandemic on student mental health: Longitudinal analyses of students in Texas (PI: Troy Quast, Ph.D.)</i>                             |      |
| W. T. Grant Foundation   | 2023 |
| Role: Co-I   |      |
| Amount: \$1,000,000  |      |
| <i>Utilizing Discrete Event Simulation (DES) to Improve the Use of Evidence and Inform Mental Health Services (PI: von der Embse, Ph.D.)</i>   |      |
| National Institutes of Health  | 2023 |
| Role: Consultant   |      |
| <i>Through the Lens of Fathers: Exploring Paternal Contributions to Adverse Pregnancy Outcomes and Sources of Engagement in Perinatal Support (PI: Ashley Hill, Ph.D.)</i>                 |      |

### Grants - Not Funded

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|---|------|
| SONY  | 2022 |
| Role: Co-I  |      |
| Amount: \$100,000   |      |
| <i>Smart Start for Youth Mental Health (PI: Sarah Dickinson, Ph.D.)</i> |      |
| National Institutes of Health   | 2022 |
| Role: Co-I  |      |
| Amount: \$400,000   |      |

*Examining implementation status and barriers: Integrating nutrition services for children with autism spectrum disorder within the Part C Early Intervention Program (PI: Heewon Gray, Ph.D.)*

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| NIH   | 2022 |
| Role: Co-PI<br>Amount: \$875,000<br><i>The effect of remote learning during the COVID-19 pandemic on student mental health: Longitudinal analyses of students in Texas (PI: Troy Quast, Ph.D.)</i>                                |      |
| NIH   | 2022 |
| Role: Co-PI<br>Amount: \$290,000<br><i>A preliminary investigation of the effect of practice conditions on motor learning in children with autism spectrum disorder (PI: Jamie Holloway, Ph.D.)</i>                               |      |
| W. T. Grant Foundation  | 2022 |
| Role: Co-I<br>Amount: \$1,000,000<br><i>Utilizing Discrete Event Simulation (DES) to Improve the Use of Evidence and Inform Mental Health Services (PI: von der Embse, Ph.D.)</i>   |      |
| Department of Defense   | 2021 |
| Role: Co-I<br>Amount: \$600,000<br><i>Feasibility and preliminary efficacy of a parent nutrition intervention using a social media platform to promote healthy eating habits among children with ASD (PI: Heewon Gray, Ph.D.)</i> |      |
| Cigna   | 2021 |
| Role: Co-PI<br>Amount: \$344,364<br><i>Building Opportunity to Learn Mathematics for Diverse (BOLD) Young Adolescents (PI: Dr. Eugenia Vomvoridi-Ivanovic, Ph.D.)</i>   |      |
| W. T. Grant Foundation  | 2021 |
| Role: Co-I<br>Amount: \$1,000,000<br><i>Utilizing Discrete Event Simulation (DES) to Improve the Use of Evidence and Inform Mental Health Services (PI: von der Embse, Ph.D.)</i>   |      |
| Organization for Autism Research  | 2021 |
| Role: Co-I<br>Amount: \$40,000<br><i>Optimizing Nutrition Service Implementation in Early Intervention Programs for Children with ASD (PI: Heewon Gray, Ph.D.)</i>  |      |
| Spencer Foundation  | 2020 |
| Role: Co-PI<br>Amount: \$50,000<br><i>Who Suffers When School Stops?: The Impact of COVID-19 on Young Children's Early Literacy Development (PI: Elizabeth Hadley, Ph.D.)</i>   |      |
| National Institutes of Health   | 2019 |

- Role: Co-I  
Amount: \$2,251,909  
*In Defense of Food Afterschool Intervention to Encourage Healthy Eating Among Adolescents: An Efficacy Trial* (PI: Heewon Gray, Ph.D.)
- National Science Foundation 2019/2000  
Role: Co-PI  
Amount: \$450,000  
*Building Opportunity to Learn Mathematics for Diverse Young Adolescents (project BOLD)* (PI: Dr. Eugenia Vomvoridi-Ivanovic, Ph.D.)
- Institute of Education Sciences 2018  
Amount: \$1,400,000  
Role: Co-PI  
*ACCESS Fractions: Advancing Conceptual and Computational Educational Success for Students with Mathematics Difficulties in Fractions* (PI: David Allsop, Ph.D.)
- National Institutes of Health 2017  
Role: Co-PI  
Amount: \$411,125  
*Exploring the Underlying Mechanisms of Comorbid ADHD and Obesity* (PI: Jennifer Bleck, Ph.D.)
- National Science Foundation 2016  
Role: Co-PI  
Amount: \$299,458  
*SBP: Achievement Emotions in Undergraduate Chemistry Courses* (PI: Jeffrey R. Raker, Ph.D.)
- National Science Foundation 2016  
Role: Co-I  
Amount: \$391,442  
*SBP: Effects of Ambivalent Experiences on Women's Cardiovascular Responses, Performance, and Interest in STEM Fields* (PI: Kristen Salomon, Ph.D.)
- National Academy of Education/Spencer Postdoctoral Fellowship 2016  
Amount: \$70,000  
*Do Parents and Teachers Rate a Child in the Same Manner? Statistical Models to Test Measurement Invariance between Informants of Children with Dyads and Partial Nesting*
- Institute of Education Sciences 2015  
Role: Co-PI  
Amount: \$1,398,384  
*Toward an Ecological Model of Document Critique and Collaboration for Postsecondary Education* (PI: Joseph M. Moxley, Ph.D.)

## TEACHING

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### Courses Taught

- Department of Educational & Psychological Studies, University of South Florida
- |   |              |
|---|--------------|
| Applied Multilevel Model in Education (Doctoral level)            | 2012-present |
| Structural Equation Modeling (Doctoral level)                     | 2012-present |
| Statistical Analysis for Educational Research II (Doctoral level) | 2012-present |

|   |           |
|---|-----------|
| Designs of Systematic Studies in Education (Doctoral level)             | 2011-2012 |
| Department of Educational Psychology, Texas A&M University              |           |
| Measurement and Evaluation in Education and Psychology (Master's level) | 2010      |
| Educational Statistics (Undergraduate level)                            | 2008      |

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### **DOCTORAL/MASTER'S SUPERVISORY COMMITTEES**

#### **Major Professor – Defended**

4. Abeer Alamri (Summer 2016 to Spring 2019) Measurement & Research, USF (General Manager of Programs Accreditation at Education & Training Evaluation Commission, The National Centre for Training Accreditation and Evaluation (MASAR), Riyadh, Saudi Arabia)
3. Yan Wang (Summer 2015 to Spring 2018) Measurement & Research, USF (Assistant Professor, University of Massachusetts, Lowell, MA)
2. Thanh Pham (Spring 2014 to Fall 2017) Measurement & Research, USF (Statistical Data Analyst, RightPath, University of South Florida)
1. Brandon Craig (Fall 2015 Summer 2017) Measurement & Research, USF (Psychometrician at National Board of Osteopathic Medical Examiners, Inc)

#### **Co-Major Professor – Defended**

2. Diep Nguyen (Fall 2014 to Summer 2019) Measurement & Research, USF (Statistical Data Analyst, USF Health)
1. Chunhua Cao (Spring 2013 to Spring 2017) Measurement & Research, USF (Assistant Professor of Educational Research, University of Alabama)

#### **Major Professor – In Progress**

1. Siyu Liu (Fall 2020 to present) Measurement & Research, USF

#### **Committee Member – Defended**

30. Heather Owens (Spring 2021 to Fall 2023) Public Health, USF
29. Daniel Faraci (Spring 2021 to Fall 2023) Psychology, USF
28. Yimei Zhang (Fall 2021 to Summer 2023) Accounting, USF
27. Arjun Kadian (Spring 2021 to Spring 2023) Business Administration, USF
26. Christina Falcon (Spring 2021 to Spring 2023) Psychology, USF
25. Brandon Yik (Fall 2020 to Fall 2022) Chemistry Education, USF
24. Becky Gius (Summer 2020 to Summer 2022) Psychology, USF
23. Michelle McNulty (Fall 2020 to Spring 2022) Measurement & Research, USF
22. Rylan Charlton (Spring 2021 to Fall 2021) Psychology, USF
21. Bryan Benitez (Spring 2019 to Spring 2021) Psychology, USF
20. Seulki Rachel Jang (Spring 2016 to Spring 2018) Psychology, USF
19. Anh Kellermann (Fall 2015 to Spring 2018) Measurement & Research, USF
18. Sarah Eisel (Spring 2016 to Spring 2018) Aging Studies, USF

17. James Yibo Zhang (Fall 2016 to Spring 2018) Accounting, USF
16. Jennifer Greene (Summer 2015 to Spring 2018) Measurement & Research, USF
15. Elizabeth Lockhart (Fall 2013 to Fall 2017) Public Health, USF
14. Nazuk Sharma (Fall 2015 to Spring 2017) Marketing, USF
13. Seang-Hwane Joo (Spring 2016 to Spring 2017) Measurement & Research, USF
12. Heather Wright (Spring 2016 to Spring 2017) Instructional Technology, USF
11. Keri Stewart (Spring 2015 to Summer 2016) School Psychology, USF
10. Leslie Marshall (Fall 2014 to Summer 2016) Psychological and Social Foundations, USF
9. Vanessa Panaite (Spring 2013 to Summer 2016) Psychology, USF
8. Youness Mountaki (Spring 2015 to Spring 2016) SLA/IT, USF
7. Patricia Rodriguez de Gil (Fall 2012 to Fall 2015) Measurement & Research, USF
6. Jennifer Bleck (Fall 2014 to Summer 2015) Public Health, USF
5. Eun Kyeng Baek (Spring 2012 to Spring 2015) Measurement & Research, USF
4. Myung Hee Im (Summer 2013 to Spring 2014) Texas A&M University
3. Natasha Burke (Fall 2012 to Spring 2014) Psychology, USF
2. Merlande PetitBois (Spring 2012 to Summer 2014) Measurement & Research, USF
1. Aarti Bellara (Fall 2011 to Summer 2013) Measurement & Research, USF

#### **Committee Member – In Progress**

15. Rebecca Lindgren (Summer 2023 to present) Industrial & Organizational Psychology, USF
14. Matthew O'Brien (Spring 2023 to present) Math Education, USF
13. Chong Hwa Kevin Lee (Spring 2023, Feb 27 to present) LPLL, USF
12. Dorie Ross (Fall 2022 to present) School Psychology, USF
11. Lodi Lipien (Fall 2022 to present) Measurement & Research, USF
10. Samantha Lopez (Fall 2022 to present) Instructional Technology, USF
9. Elif Topsakal (Spring 2022 to present) Measurement & Research, USF
8. Roxanne Lawrence (Spring 2022 to present) Industrial & Organizational Psychology, USF
7. Ling Hu (Spring 2022 to present) Marketing, USF
6. Rashida Jones (Spring 2022 to present) Public Health, USF
5. Lendi Joy (Fall 2021 to present) Clinical Psychology, USF
4. Gen Li (Fall 2021 to present) Educational Psychology, USF
3. Harold Holmes (Spring 2020 to present) Special Education, USF
2. Jessica Montgomery (Spring 2020 to present) Measurement & Research, USF
1. Sean Murphy (Summer 2019 to present) Measurement & Research, USF

#### **Master Thesis Committee Member – Defended**

- Chalsea Salvatore (Fall 2021 to Spring 2023) School Psychology, USF

Gabrielle Francis (Spring 2021 to Summer 2022) School Psychology, USF  
 Seokjoon Chun (Spring 2013 to Fall 2014) Psychology, USF

### **Master Thesis Committee Member – In Progress**

Thomas Koza (Spring 2023 to present) School Psychology, USF

### **Advising of Master in Measurement and Evaluation - Completed**

Zhiyao Yi (Fall 2015 to Summer 2016) Measurement & Research, USF  
 Anna Gonzalez (Fall 2016 to Spring 2018) Measurement & Research, USF

## **PROFESSIONAL AFFILIATIONS/SERVICES**

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### **Memberships in Professional Organizations**

|  |              |
|--|--------------|
| American Educational Research Association (AERA)   | 2010-present |
| Division D (Measurement and Research Methodology)  |              |
| SIG-Structural Equation Modeling                   |              |
| SIG-Multilevel Modeling                            |              |
| SIG-Educational Statisticians                      | 2020-present |
| American Psychological Association (APA)           | 2011-2015    |
| Florida Educational Research Association (FERA)    | 2014-present |
| Southwest Educational Research Association (SERA)  | 2007-2010    |
| Florida Educational Research Association           |              |
| Educational Researcher of the Year Award Committee | 2022-present |
| Evaluation Committee, Chair                        | 2014-2018    |
| Distinguished Paper Award committee                | 2019         |
| American Educational Research Association (AERA)   |              |
| AERA SIG-Multilevel Modeling, Secretary            | 2014-2018    |
| Session Chair/Discussant                           | 2015-2021    |

### **Editorial Board**

#### **Associate Editor**

*Behavioral Research Methods* 2020-present

#### **Consulting Editor**

*European Journal of Psychological Assessment* 2017-present

*Journal of School Psychology* 2014-present

*Child Psychiatry and Human Development* 2014-present

*Journal of Psychoeducational Assessment* 2013-present

*Psychological Methods* 2016-2018

*Journal of Personality Assessment* 2016-2018

#### **Reviewer**

*Structural Equation Modeling*

*Educational and Psychological Measurement*

*Psychological Methods*

*Multivariate Behavioral Research*

*Journal of Experimental Education*

*Florida Educational Research Journal*

*British Journal of Mathematical and Statistical Psychology*

*Evaluation and Programming Planning*  
*Journal of Clinical Psychology*  
*Psychometrika*  
*American Educational Research Journal*  
*European Journal of Training and Development*  
*Early Education and Development*

**Grant Proposal Review**

*Institute of Education Sciences (IES) Panelist* 2015  
*National Science Foundation (NSF)* 2020

**External Reviewer**

Doctoral Dissertation (University of British Columbia, Canada)

**Services in University/College/Department**

|   |                          |
|---|--------------------------|
| USF PAMC  | 2016-present             |
| Conference Planning and Marketing Committee                   | 2017-present             |
| Graduate Policy Council                                       | 2019-2021                |
| Faculty Success Community Involvement Committee               | 2022-present             |
| The Hough Family Measurement Lab Coordinator                  | 2014-2015, 2019 -present |
| Graduate Student Admission Committee (Measurement & Research) | 2015-2018, 2019 -present |
| Master's Program Coordinator                                  | 2015-2018                |
| Faculty Search Committee Chair - Visiting Assistant Professor | 2017-2018                |
| Department Award Committee [substitute]                       | 2015                     |

**CERTIFICATES**

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|  |      |
|--|------|
| Applied Statistics Certification Program                               | 2010 |
| Department of Statistics, Texas A&M University                         |      |
| • Mathematical Statistics  |      |
| • Categorical Data Analysis  |      |
| • Advanced SAS Programming   |      |
| Certificate of TATEP, Teaching Assistant Training & Evaluation Program | 2007 |
| Center for Teaching Excellence, Texas A&M University                   |      |
| Teaching Certificate in English Education                              | 1993 |
| College of Education, Pusan National University, Busan, Korea          |      |

**PROFESSIONAL DEVELOPMENT**

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|  |           |
|--|-----------|
| Sponsored training: NEAP Data Training                     | 2019      |
| National Center for Educational Statistics                 |           |
| SAS Summer Workshop  | 2016      |
| SAS Global Academic Program, Cary Training Center          |           |
| Applied Analytics Using SAS Enterprise Miner               |           |
| Bayesian Analyses Using SAS                                | 2012      |
| SAS Global Forum Pre-conference Training                   |           |
| Certificates of Summer Statistics Workshop                 | 2009-2010 |
| Department of Educational Psychology, Texas A&M University |           |

- Item Response Theory
- Mediation and Moderation Analysis
- Introduction to Theory and Application of Propensity Score