HOK CHIO (MARK) LAI

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Google Scholar profile: https://scholar.google.com/citations?user=s2LhwXAAAAAJ

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EDUCATION

Ph.D. in Educational Psychology   2011–2015
Texas A&M University, College Station, TX

Bachelor of Social Science in Psychology   2007–2011
University of Macau, Macau

PROFESSIONAL APPOINTMENTS

Associate Professor (with tenure)   2023 Aug–Present
Assistant Professor (Tenure-Track)   2018 Aug–2023 Aug
Department of Psychology, *University of Southern California*, Los Angeles, CA

Assistant Professor (Tenure-Track)   2015 Aug–2018 Aug
School of Education, *University of Cincinnati*, Cincinnati, OH

RESEARCH INTERESTS

Effect size calculation for multilevel data
Best practices for multilevel modeling
Measurement invariance and its impact on statistical modeling
Integrative data analysis with measurement error and noninvariance

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GRANT ACTIVITY

Current Funding
NIH/NIMH   2023 Jul 6–2028 Jun 30
"Ambulatory phenotyping with real-time indices of discordant affect regulation: Exploring opportunities for targeted intervention in depression" (PI Stange, R01MH133842)
Role: Co-I
NIH/NIAAA, Understanding Processes of Recovery in the Treatment of Alcohol Use Disorder   2022 Sep 1–2024 Aug 31
"Examining the validity of the alcohol use disorder recovery construct using a between- and within-persons design" (PI Richardson, R21AA029762)
Role: PI of Subcontract
National Science Foundation, **Methodology, Measurement, and Statistics**   2022 Aug 15–2027 Aug 14

Last updated on December 26, 2023

"CAREER: Advancing Latent Variable Methods for Integrative Data Analysis" (SES-2141790)
Role: PI

NIH/NIA, Research on Current Topics in Alzheimer's Disease and Its Related Dementias
2022 Apr 1–2027 Mar 31
"Inactivity, sedentary behavior, and the risk for Alzheimer's disease in middle aged to older adults" (PI Raichlen)
Role: Co-I

NIH/NICHD, Research on biopsychosocial factors of social connectedness and isolation on health, wellbeing, illness, and recovery 2021 Jun 1–2026 Jan 31
"Prenatal Social Connection and Disruption During the COVID-19 Pandemic: Effects on Maternal and Infant Health" (PI Saxbe, R01HD104801)
Role: Co-I

Prior Funding
NIH/NIAAA, Epidemiology and Prevention in Alcohol Research
2021 May 1–2023 April 30
"Alcohol metabolism and disease risk in Asians: Examining the impact of personalized phenotypic/genotypic feedback and motivational processes on early drinking trajectories" (PI Luczak, R21AA028365, $278,438)
Role: Co-I

Spencer Foundation 2021 Jan 1–2022 June 30
"The Impact of Ignoring Parameter Uncertainty on Sample-Size Planning for Cluster-Randomized and Multisite Randomized Trials"
Role: PI ($49,796)

Department of Health and Human Services, Office of Population Affairs (Pregnancy Prevention Research Grants) 2020 Sep 30–2022 Sep 29
"Secondary Data Analysis of Effective TPP Programs: Setting, Youth Context, and Characteristics" (PI Clark, PHEPA000003, $2,200,490)
Role: PI of Subcontract ($149,049)

Department of Defense, Army Research Institute 2020 Aug 7–2022 Aug 6
"Developing a Multidimensional Psychometric Framework on the Impact of Item Bias on Classification"
Role: PI ($104,382)

National Institutes of Health, Promoting Research on Music and Health: Fundamentals and Applications (R21) 2019 Sep 15–2021 Aug 31
"Music Training, Bilingualism and Executive Functioning" (PI Assal Habibi, 1R21NS114592-01, $247,500)
Role: Co-I

McRel International 2018 Aug 1–2021 Jun 30
Evaluation of "Identity-Based Motivation Journey to Academic Success." (Original grant funded by Department of Education, Investing in Innovation Fund [i3] Development Grants, Co-PIs: Katie Anderson and Daphna Oyserman, Award No. U411C150011)
Role: PI (External Evaluator; Subaward $176,418)

National Science Foundation, Research on Learning in Formal and Informal Settings (1908630)   2019 July 15–2020 July 14
"Developing and Validating Early Assessments of College Readiness: Differential Effects for Underrepresented Groups, Optimal Timing of Assessments, and STEM-specific Indicators" (PI Gregory Palardy)
Role: PI for subaward ($6,000)
University Research Council
AHSS Faculty Research and Scholarship Stipend Awards   2017
University of Cincinnati
"Impact of Measurement Bias on the Validity of Intervention Studies" ($10,000)
Role: PI   Status: Funded
Vice President for Research Award   2016–2018
University of Cincinnati, $30,500

PUBLICATIONS

(* indicates student author)

67. **Lai, M. H. C.**, & *Tse, W. W. Y. (accepted pending revision). Are factor scores measurement invariant. *Psychological Methods*. Manuscript submitted for publication. https://osf.io/uzrak/

66. **Lai, M. H. C.**, *Zhang, Y., & *Ji, F. (accepted pending revision). Correcting for sampling error in between-cluster effects: An empirical Bayes cluster means approach with finite population corrections. *Multivariate Behavior Research*. Manuscript submitted for publication.

65. *Zhang, Y., & **Lai, M. H. C.** (accepted, December 18, 2023). Evaluating two small sample corrections for fixed-effects standard errors and inferences in multilevel models with heteroscedastic, unbalanced, clustered data. *Behavior Research Methods*. Manuscript accepted for publication.

64. *Beale, A., Ryjova, Y., *Gold, A. I., Kim, Y., Kazmierski, K. F. M., Daspe, M., **Lai, M. H. C.**, & Margolin, G. (2023). Parent aggression exposure and negative expectancies in couple conversation: Rejection sensitivity as a mediator. *Journal of Family Violence*. Advance online publication. https://doi.org/10.1007/s10896-023-00635-2

63. *Cardenas, S. I., *Tse, W. W., *León, G., *Kim, A., *Tureson, K.; **Lai, M. H. C.**, Saxbe, D. E. (2023). Prenatal testosterone synchrony in first-time parents predicts fathers' postpartum relationship quality. *Hormones and Behavior, 156*, Article 105440. https://doi.org/10.1016/j.yhbeh.2023.105440

62. Gonzalez, C., Simonell, J. R., **Lai, M. H. C.**, Lopez, S. R., & Tarbox, J. (2023). The impacts of the COVID-19 pandemic on therapy utilization among racially/ethnically and socio-economically diverse autistic children. *Journal of Autism and Developmental Disorders, 53*, 918–933. https://doi.org/10.1007/s10803-023-05905-y

61. **Lai, M. H. C.** (2023). Adjusting for measurement noninvariance with alignment optimization in growth modeling. *Multivariate Behavioral Research, 58*(1), 30–47. https://doi.org/10.1080/00273171.2021.1941730

60. **Lai, M. H. C.**, *Tse, W. W. Y., *Zhang, G., *Li, Y., & *Hsiao, Y. Y. (2023). Correcting for unreliability and partial invariance: A two-stage path analysis approach. *Structural Equation Modeling: A Multidisciplinary Journal, 30*(2), 258–271. https://doi.org/10.1080/10705511.2022.2125397

59. *Liu, Y., **Lai, M. H. C.**, & Kelcey, B. (2023). Comparing MIMIC and MIMIC-interaction to alignment methods for investigating measurement invariance concerning a continuous violator. *Structural Equation Modeling*. Advance online publication. https://doi.org/10.1080/10705511.2023.2240517

58. Mak, H. W., Lydon-Staley, D. M., Lunkenheimer, E., **Lai, M. H. C.**, & Fosco, G. M. (2023). The roles of parents and friends in adolescent daily emotion dynamics. *Social Development, 32*(1), 263–282. https://doi.org/10.1111/sode.12637

57. Ozturk, E., *Zhang, Y., **Lai, M. H. C.**, Chanfreau, C., Sakamoto, M., & Merritt, V. (2023). Measurement Invariance of the Neurobehavioral Symptom Inventory (NSI) in Male and Female Million Veteran Program (MVP) Enrollees Completing the Comprehensive Traumatic Brain Injury Evaluation (CTBIE). *Assessment*. Advanced online publication. https://doi.org/10.1177/10731911231198214

56. Raichlen, D. A., Aslan, D. H., Sayre, M. K., Bharadwaj, P. K., Ally, M., Maltagliati, S., **Lai, M. H. C.**, Wilcox, R. R., Klimentidis, Y. C., & Alexander G. E. (2023). Sedentary behavior and incident dementia among older adults. *JAMA, 330*(10), 934–940. https://doi.org/10.1001/jama.2023.15231

55. Sakamoto, M., Hanson, K. L., Chanfreau-Coffinier, C., **Lai, M. H. C.**; Román, C., Clark, A., Marquine, M., Delano-Wood, L., Merritt, V. (2023). An examination of racial/ethnic differences on the neurobehavioral symptom inventory among veterans completing the Comprehensive Traumatic Brain Injury Evaluation (CTBIE): A VA Million Veteran Program study. *Archives of Clinical Neuropsychology, 38*(6), 929–943. https://doi.org/10.1093/arclin/acad005

54. *Tse, W. W., **Lai, M. H. C.**, & *Zhang, Y. (2023). Does strict invariance matter? Valid group mean comparisons with ordered-categorical Items. *Behavior Research Methods*. Advance online publication. https://doi.org/10.3758/s13428-023-02247-6

53. Yu, B. C. L., Chio, F. H. N., Chan, K. K. Y., Mak, W. W. S., *Zhang, G., Vogel, D., & **Lai, M. H. C.** (2023). Associations between public and self-stigma of help-seeking with help-seeking attitudes and intention: A meta-analytic structural equation modeling approach. *Journal of Counseling Psychology, 70*(1), 90–102. Advance online publication. https://doi.org/10.1037/cou0000637

52. *Zhang, Y., & **Lai, M. H. C.**, & Palardy, G. J. (2023). A Bayesian framework for establishing measurement invariance for observed test scores. *Psychological Methods, 28*(4), 993–1004. https://doi.org/10.1037/met0000455

51. **Lai, M. H. C.**, & Hsiao, Y.-Y.* (2022). Two-stage path analysis with definition variables. *Psychological Methods, 27*(4), 568–588. https://doi.org/10.1037/met0000410

50. **Lai, M. H. C.**, *Liu, Y., & *Tse, W. W. (2022). Adjusting for partial invariance in latent parameter estimation: Comparing forward specification search and approximate invariance methods. *Behavior Research Methods, 54*, 414–434. https://doi.org/10.3758/s13428-021-01560-2

49. **Lai, M. H. C.**, & *Zhang, Y. (2022). Classification accuracy of multidimensional tests: Quantifying the impact of noninvariance. *Structural Equation Modeling, 29*(4), 620–629. https://doi.org/10.1080/10705511.2021.1977936

48. *Liu, M., Yegiyan, N. S., & **Lai, M. H. C.** (2022). Appetitive food, aversive warning: Interaction effects of visual and verbal cues on psychophysiological and attitudinal responses to PSAs. *Media Psychology*. Advanced online publication. https://doi.org/10.1080/15213269.2022.2082982

47. Lopez, N. V., **Lai, M. H. C.**, Yang, C.-H., Dunton, G. F., Belcher, B, R. (2022). Associations of maternal and paternal parenting practices with children's fruit/vegetable intake and physical activity: Preliminary findings from an ecological momentary study. *JMIR Formative Research, 6*(8), e38326. https://doi.org/10.2196/38326

46. Raichlen, D. A., Klimentidis, Y. C., Sayre, M. K., Bharadwaj, P. K., **Lai, M. H. C.**, Wilcox, R. R., & Alexander G. E. (2022). Leisure-time sedentary behaviors are differentially associated with all-cause dementia regardless of engagement in physical activity. *PNAS, 119*(35), e2206931119. https://doi.org/10.1073/pnas.2206931119

45. Wu, A. M. S., **Lai, M. H. C.**, Zhang, M., Yogo, M., Yu, S., & Mao, S., & Chen, J. H. (2022). Effects of psychological distress and coping resources on Internet gaming disorder: Comparison between Chinese and Japanese university students. *International Journal of Environmental Research and Public Health, 19*(5), 2951.

44. *Hsiao, Y.-Y., Kwok, O., & **Lai, M. H. C.** (2021). Modeling measurement errors of the exogenous composites from congeneric measures in interaction models. *Structural Equation Modeling, 28*(2), 250–260. https://doi.org/10.1080/10705511.2020.1782206

43. Guo, Y., Dynia, J. M., & **Lai, M. H. C.** (2021). Early childhood special education teachers' self-efficacy: Links to children's literacy learning. *Early Childhood Research Quarterly, 54*(1), 153–163. https://doi.org/10.1016/j.ecresq.2020.09.002

42. Ji, Y.*, Luo, W., **Lai, M. H. C.**, Yoon, M., Chen, L.-S., & Kwok. O. (2021). Model-selection-based approaches to identifying the optimal number of factors in multilevel exploratory factor analysis. *Structural Equation Modeling, 28*(5), 763–777. https://doi.org/10.1080/10705511.2021.1916394

41. **Lai, M. H. C.** (2021a). Bootstrap confidence interval for multilevel standardized effect size. *Multivariate Behavioral Research, 56*(4), 558–578. https://doi.org/10.1080/00273171.2020.1746902

40. **Lai, M. H. C.** (2021b). Composite reliability of multilevel data: It's about observed scores and construct meanings. *Psychological Methods, 26*(1), 90–102. https://doi.org/10.1037/met0000287

39. Luo, W. & **Lai, M. H. C.** (2021). A weighted residual bootstrap method for multilevel modeling with sampling weights. *Journal of Behavioral Data Science, 1*(2), 89–118. https://doi.org/10.35566/jbds/v1n2/p6

38. *Tilley, J. L., Huey, S. J., Jr., Farver, J. M., **Lai, M. H. C.**, & *Wang, C. X., & (2021). The immigrant paradox in the problem behaviors of youth in the United States: A meta-analysis. *Child Development, 92*(2), 502–516. https://doi.org/10.1111/cdev.13542

37. Zhao, A., Guo, Y., Sun, S., **Lai, M. H. C.**, Breit-Smith, A., & Li, M. (2021). The contributions of language skills and comprehension monitoring to Chinese reading comprehension: A

longitudinal investigation. *Frontiers in Psychology, 12*.
https://doi.org/10.3389/fpsyg.2021.625555

36. *Atari, M., **Lai, M. H. C.**, & Dehghani, M. (2020). Sex differences in moral judgements across 67 countries. *Proceedings of the Royal Society B, 287*(1937).
https://doi.org/10.1098/rspb.2020.1201

35. Bae, C., & **Lai, M. H. C.** (2020). Opportunities to participate in science learning and student engagement: A mixed methods approach to examining person and context factors. *Journal of Educational Psychology, 112*(6), 1128–1153.
https://doi.org/10.1037/edu0000410

34. Li, N., Yong, J., Tsai, M.-H., **Lai, M. H. C.**, Lim, A. Y. Y., & Ackerman, J. M. (2020). Confidence is sexy and it can be trained: Examining male social confidence in initial, opposite-sex interactions. *Journal of Personality, 88*(6), 1235–1251. https://doi.org/10.1111/jopy.12568

33. Landmark, L. J., Ju, S., Greene, G., & **Lai, M. H. C.** (2020). Evaluating special educator and transition personnel knowledge and skills for working with diverse families and students during the transition process: Preliminary development and validation of an assessment instrument. *Journal of Vocational Rehabilitation, 52*, 317–331.
https://doi.org/10.3233/JVR-201080

32. Wu, A. M. S., **Lai, M. H. C.**, Lau, J. T. F., & Walden, D. L. (2020). Incidence of probable depression and its predictors among Chinese secondary school students. *International Journal of Mental Health and Addiction, 18*, 1652–1667. https://doi.org/10.1007/s11469-020-00379-w

31. **Lai, M. H. C.** (2019). Correcting fixed effect standard errors when a crossed random effect was ignored for balanced and unbalanced designs. *Journal of Educational and Behavioral Statistics, 48*, 448–472. https://10.3102/1076998619843168

30. **Lai, M. H. C.**, Richardson, G. B., & Mak, H. W. (2019). Quantifying the impact of partial measurement invariance for addiction research. *Addictive Behaviors, 94*, 50–56.
https://doi.org/10.1016/j.addbeh.2018.11.029

29. Nation, D. A., *Ho, J. K., Dutt, S., Han, S. D., & **Lai, M. H. C**. (2019). Neuropsychological decline improves prediction of dementia beyond AD biomarker and MCI diagnoses. *Journal of Alzheimer's Disease, 69*, 1171–1182. https://doi.org/10.3233/JAD-180525

28. *Chen, C.-C., Richardson, G. B., **Lai, M. H. C.**, Dai, C.-L., & Hays, D. (2018). Development and cross-cultural validity of a Brief Measure of Separation-Individuation. *Journal of Child and Family Studies, 27*, 2797–2810. https://doi.org/10.1007/s10826-018-1140-2

27. Chio, F. H. N., **Lai, M. H. C.**, & Mak, W. W. S. (2018). Development of Nonattachment Scale—Short Form (NAS-SF) using item response theory. *Mindfulness, 9*, 1299–1308.
https://doi.org/10.1007/s12671-017-0874-z

26. *Hsiao, Y., & **Lai, M. H. C.** (2018). The impact of partial measurement invariance on testing moderation for single and multi-level data. *Frontiers in Psychology, 9*.
https://doi.org/10.3389/fpsyg.2018.00740

25. *Hsiao, Y., Kwok, O., & **Lai, M. H. C.** (2018). Evaluation of two methods for modeling measurement errors when testing interaction effects with observed composite scores. *Educational and Psychological Measurement, 78*, 181–202.
https://doi.org/10.1177/0013164416679877

24. Kwok, O., **Lai, M. H. C.**, Tong, F., Lara-Alecio, R., Irby, B. J., Yoon, M., & Yeh, Y.-C. (2018). Analyzing complex longitudinal data in educational research: A demonstration with Project English Language and Literacy Acquisition (ELLA) data using xxM. *Frontiers in Psychology, 9*. https://doi.org/10.3389/fpsyg.2018.00790

23. **Lai, M. H. C.**, Kwok, O., *Hsiao, Y., & Qian, C. (2018). Finite population correction for two-level hierarchical linear modeling. *Psychological Methods, 23*, 94–112. https://doi.org/10.1037/met0000137

22. Yoon, M., & **Lai, M. H. C.** (2018). Testing factorial invariance with unbalanced samples. *Structural Equation Modeling: A Multidisciplinary Journal, 25*, 201–213. https://doi.org/10.1080/10705511.2017.1387859

21. Clemens, N. H., Lai, M. H. C., Burke, M. D., & Wu, J. (2017). Interrelations of growth in letter naming and sound fluency in kindergarten and implications for subsequent reading fluency. *School Psychology Review, 46*, 272–287. https://doi.org/10.17105/SPR-2017-0032.V46-3

20. **Lai, M. H. C.**, & *Zhang, J. (2017). Evaluating fit indices for multivariate *t*-based structural equation modeling with data contamination. *Frontiers in Psychology, 8*. https://doi.org/10.3389/fpsyg.2017.01286

19. **Lai, M. H. C.**, Kwok, O., Yoon, M., & *Hsiao, Y. (2017). Understanding the impact of partial factorial invariance on selection accuracy: An R script. *Structural Equation Modeling: A Multidisciplinary Journal, 24*, 783–799. https://doi.org/10.1080/10705511.2017.1318703

18. Richardson, G. B., Dariotis, J. K., & **Lai, M. H. C.** (2017). From environment to mating competition and Super-K in a predominantly urban sample of young adults. *Evolutionary Psychology, 15*. https://doi.org/10.1177/1474704916670165

17. Richardson, G. B., Sanning, B. K., **Lai, M. H. C.**, Copping, L., Hardesty, P. H., & Kruger, D. J. (2017). On the psychometric study of human life history strategies: State of the science and evidence of two independent dimensions. *Evolutionary Psychology, 15*. https://doi.org/10.1177/1474704916666840

16. Wu, A. M. S., **Lai, M. H. C.**, Yu, S., Lau, J. T. F., & Lei, M.-w. (2017). Motives for Online Gaming Questionnaire: Its psychometric properties and correlation with Internet gaming disorder symptoms among Chinese people. *Journal of Behavioral Addictions, 6*, 11–20. https://doi.org/10.1556/2006.6.2017.007

15. Kim, M., Kwok, O., Yoon, M., Willson, V. L., & **Lai, M. H. C.** (2016). Specification search for identifying the correct mean trajectory in polynomial latent growth models. *Journal of Experimental Education, 84*, 307–329. https://doi.org/10.1080/00220973.2014.984831

14. **Lai, M. H. C.**, & Kwok, O. (2016). Estimating standardized effect sizes for two-and three-level partially nested data. *Multivariate Behavioral Research, 51*, 740–756. https://doi.org/10.1080/00273171.2016.1231606

13. McCord, C. E., Elliott, T. R., Berry, J. W., Underhill, A. T., Fine, P. R., & **Lai, M. H. C.** (2016). Trajectories of happiness five years following medical discharge for traumatic disability: Differences between insider and outsider perspectives. *Journal of Happiness Studies, 17*, 553–567. https://doi.org/10.1007/s10902-014-9610-8

12. Wu, A. M. S., & **Lai, M. H. C.**, Tong, K., & Yu, M. S. (2016). Psychological correlates of disordered gambling tendencies among Chinese high school and undergraduate students.

International Journal of Mental Health and Addiction, 14, 322–336.
https://doi.org/10.1007/s11469-016-9632-z

11. **Lai, M. H. C.** & Kwok, O. (2015). Examining the rule of thumb of not using multilevel modeling: The "design effect smaller than two rule". *Journal of Experimental Education, 83*, 423–438. https://doi.org/10.1080/00220973.2014.907229

10. **Lai, M. H. C.**, Wu, A. M. S., & Tong, K. (2015). Validation of the Gambling Refusal Self-Efficacy Questionnaire for Chinese undergraduate students. *Journal of Gambling Studies, 31*, 243–256. https://doi.org/10.1007/s10899-013-9412-7

9. **Lai, M. H. C.** & Yoon, M. (2015). A modified comparative fit index for factorial invariance studies. *Structural Equation Modeling: A Multidisciplinary Journal, 22*, 236–248. https://doi.org/10.1080/10705511.2014.935928

8. Wu, A. M. S., **Lai, M. H. C.**, & Tong, K. (2015). Internet gambling among community adults and university students in Macao. *Journal of Gambling Studies, 31*, 643–657. https://doi.org/10.1007/s10899-014-9451-8

7. Hernandez, C. L., Elliott, T. R., Berry, J. W., Underhill, A. T., Fine, P. R., & **Lai, M. H. C.** (2014). Trajectories of life satisfaction: Five years after medical discharge for traumatically acquired disability. *Rehabilitation Psychology, 59*, 183–192. https://doi.org/10.1037/a0035887

6. **Lai, M. H. C.** & Kwok, O. (2014). Standardized mean differences in two-level cross-classified random effect models. *Journal of Educational and Behavioral Statistics, 39*, 282–302. https://doi.org/10.3102/1076998614532950

5. Wu, A. M. S., **Lai, M. H. C.**, & Chan, I. T. (2014). Coaching behaviors, satisfaction of needs, and intrinsic motivation among Chinese university athletes. *Journal of Applied Sport Psychology, 26*, 334–348. https://doi.org/10.1080/10413200.2014.888107

4. Wu, A. M. S., **Lai, M. H. C.**, & Tong, K. (2014). Gambling Disorder: Estimated prevalence rates and risk factors in Macao. *Psychology of Addictive Behaviors, 28*, 1190–1197. https://doi.org/10.1037/a0037603

3. **Lai, M. H. C.**, Ren, M. Y. W., Wu, A. M. S., & Hung, E. P. W. (2013). Motivation as mediator between national identity and intention to volunteer. *Journal of Community and Applied Social Psychology, 23*, 128–142. https://doi.org/10.1002/casp.2108

2. Wu, A. M. S., **Lai, M. H. C.**, Tong, K., & Tao, V. Y. K. (2013). Chinese attitudes, norms, behavioral control and gambling involvement in Macao. *Journal of Gambling Studies, 29*, 749–763. https://doi.org/10.1007/s10899-012-9344-7

1. Chu, Y., **Lai, M. H. C.**, Xu, Y., & Zhou, Y. (2012). Test review: Advanced Clinical Solutions for the WAIS-IV and WMS-IV. *Journal of Psychoeducational Assessment, 30*, 520–524. https://doi.org/10.1177/0734282912442868

BOOK CHAPTERS

2. **Lai, M. H. C.**, & Yoon, M. (2021). *Partial Factorial Invariance.* In B. B. Frey (Ed.), *The SAGE Encyclopedia of Research Design.*

1. **Lai, M. H. C.** & Tong, K. K. (2011). 媒體使用與評價 [Media usage and evaluation]. In F. M. Cheung, S. L. Wong, P. S. Wan, & V. Zheng (Eds.), *The new face of Macau: Ten years of*

development and changes (pp. 285–308). Hong Kong, China: Hong Kong Institute of Asia-Pacific Studies, The Chinese University of Hong Kong.

CONFERENCE PRESENTATIONS

67. *Zhang, G., & **Lai, M. H. C.** (2023, July 25-28). *A Two-Stage Path Analysis Approach to Model Interaction Effects for Congeneric Measures* [Oral presentation]. European Congress of Methodology (EAM), Ghent, Belgium. https://eam2023.ugent.be/images/eam2023_abstracts_book.pdf

66. *Zhang, Y., & **Lai, M. H. C.** (2023, July 25-28). *Alignment with Bayesian Region of Measurement Equivalence (ABROME) approach for multiple groups comparisons* [Oral presentation]. Annual Meeting of the Psychometric Society (IMPS), College Park, Maryland, United States. https://modeling.uconn.edu/2023-preliminary-program/

65. *Tse, W. W. Y., & **Lai, M. H. C.** (2023, July 25-28). *Addressing publication bias and uncertainty for power analysis: A hybrid classical-Bayesian approach* [Oral presentation]. Annual Meeting of the Psychometric Society (IMPS), College Park, Maryland, United States. https://modeling.uconn.edu/2023-preliminary-program/

64. *Liu, Y., & **Lai, M. H. C.** (2023, July 25-28). *Examining SEM Trees for Investigating Measurement Invariance Concerning Multiple Violators* [Oral presentation]. Annual Meeting of the Psychometric Society (IMPS), College Park, Maryland, United States. https://modeling.uconn.edu/2023-preliminary-program/

63. Blozis, S., & **Lai, M. H. C.** (2023, July 25-28). *A two-stage approach to a latent variable mixed-effects location scale model* [Oral presentation]. Annual Meeting of the Psychometric Society (IMPS), College Park, Maryland, United States. https://www.psychometricsociety.org/sites/main/files/file-attachments/imps2023-abstracts.pdf

62. *Liu, Y., & **Lai, M. H. C.** (2023, June 26-28). Examining SEM Trees for Investigating Measurement Invariance Concerning Multiple Violators [Paper session]. Modern Modeling Methods Conference, Storrs, CT, United States. https://modeling.uconn.edu/2023-preliminary-program/

61. Ji, Y.*, Luo, W., **Lai, M. H. C.**, Kwok. O., & Yoon, M. (2023, April 13-16). *An Eigenvalues-Based Approaches to Identifying the Optimal Number of Factors in Multilevel Exploratory Factor Analysis* [Roundtable presentation]. AERA Annual Meeting, Chicago, IL, United States. https://convention2.allacademic.com/one/aera/aera23

60. **Lai, M. H. C.**, Zhang, Y., & Ji, F. (2023, April 13-16). *An Empirical Bayes Cluster-Mean Approach to Correct for Sampling Error in Between-Cluster Effects* [Poster presentation]. AERA Annual Meeting, Chicago, IL, United States. https://convention2.allacademic.com/one/aera/aera23

59. Tse, W. W. Y., & **Lai, M. H. C.** (2023, April 13-16). *Addressing Uncertainty in Power Analysis for Designing Cluster Randomized Trials*. [Paper session]. AERA Annual Meeting, Chicago, IL, United States. https://convention2.allacademic.com/one/aera/aera23

58. **Lai, M. H. C.**, *Tse, W. W. Y., *Zhang, G., *Li, Y., & *Hsiao, Y. Y. (2022, September 21-24). *Correcting for unreliability and partial invariance: A two-stage path analysis approach* [Symposium presentation]. Society for Research on Educational Effectiveness 2022

Conference, Arlington, VA, United States.
https://www.psychometricsociety.org/sites/main/files/file-attachments/imps2022-version-7-abstract.pdf

57. *Zhang, G., & **Lai, M. H. C.** (2022, July 11-15). *A systematic review of measurement invariance research of the CES-D across gender: calculation and report of effect size* [Oral presentation]. Annual Meeting of the Psychometric Society (IMPS), Bologna, Italy. https://www.psychometricsociety.org/sites/main/files/file-attachments/2022_imps_saag_v6.pdf

56. *Tse, W. W., & **Lai, M. H. C.** (2022, July 11-15). *Incorporating information from historical data for power analysis: A hybrid classical-Bayesian approach for multilevel studies* [Oral presentation]. Annual Meeting of the Psychometric Society (IMPS), Bologna, Italy. https://www.psychometricsociety.org/sites/main/files/file-attachments/2022_imps_saag_v6.pdf

55. *Zhang, Y., & **Lai, M. H. C.** (2022, July 11-15). *Bayesian region of measurement equivalence (ROME) approach with alignment* [Oral presentation]. Annual Meeting of the Psychometric Society (IMPS), Bologna, Italy. https://www.psychometricsociety.org/sites/main/files/file-attachments/2022_imps_saag_v6.pdf

54. *Tse, W. W., & **Lai, M. H. C.** (2022, June 27-29). *Incorporating Uncertainty in power analysis to more realistically determine sample size* [Workshop]. Meeting of the Society for the Improvement of Psychological Science (SIPS), Victoria, B. C., Canada. https://docs.google.com/document/d/1Rka3f0ZY9BBZVIlZoVINrpyaJYeitpq1yKXBLukeMng

53. Zhang, Y., & **Lai, M. H. C.** (2022, April 21-26). *Evaluating standard error estimators and resampling method for multilevel models on small samples with heteroscedasticity and unbalanced cluster sizes* [Poster presentation]. AERA Annual Meeting, San Diego, CA, United States. https://convention2.allacademic.com/one/aera/aera22

52. Palardy, G. J., *Zhang, Y., & **Lai, M. H. C.** (2022, April 21-26). *Measurement invariance testing via the alignment method: Intersectional grouping and multiple cohorts* [oral presentation]. AERA Annual Meeting, San Diego, CA, United States. https://convention2.allacademic.com/one/aera/aera22

51. *Zhang, G., *Yue, H., & **Lai, M. H. C.** (2021, July 19-23). *A systematic review of measurement invariance research of the CES-D across gender* [Poster presentation]. Virtual conference of the Psychometric Society (IMPS) due to covid-19. https://www.psychometricsociety.org/sites/main/files/file-attachments/imps_2021_virtual_schedule.pdf

50. *Zhang, Y. & **Lai, M. H. C.** (2021, July 19-23). *Classification Accuracy of multidimensional tests: Quantifying the impact of noninvariance* [Oral presentation]. Virtual conference of the Psychometric Society (IMPS) due to covid-19. https://www.psychometricsociety.org/sites/main/files/file-attachments/imps_2021_virtual_schedule.pdf

49. *Tse, W. W. & **Lai, M. H. C.** (2021, July 19-23). *Incorporating uncertainty in design parameters: A hybrid classical-Bayesian power analysis approach for two-level cluster randomized trials* [Oral presentation]. Virtual conference of the Psychometric Society

(IMPS) due to covid-19. https://www.psychometricsociety.org/sites/main/files/file-attachments/imps_2021_virtual_schedule.pdf

48. **Lai, M. H. C.**, Ji, F., & Chen, S. (2021, July 19-23). *Obtaining reliability for daily diary data using multilevel factor analysis* [Oral presentation]. Virtual conference of the Psychometric Society (IMPS) due to covid-19. https://www.psychometricsociety.org/sites/main/files/file-attachments/imps_2021_virtual_schedule.pdf

47. Lopez, N. V., **Lai, M. H. C.**, Yang C.-H., Dunton G. F., Belcher B. R. (2021, April 12-16). *Associations of maternal and paternal parenting practices with children's fruit/vegetable intake and physical activity* [oral presentation/research talk]. Society of Behavioral Medicine 2021. Virtual conference due to covid-19.

46. *Hsiao, Y., Kwok, O., & **Lai, M. H. C.** (2021, April 8-12). *Improving estimation accuracy of the tnteraction effects in models with composite scores* [Structured poster session]. AERA Annual Meeting, Orlando, FL, United States. https://convention2.allacademic.com/one/aera/aera21

45. **Lai, M. H. C.** & *Hsiao, Y. (2021, April 8-12). *Two-stage path analysis with definition variables: A general framework for modeling with categorical indicators* [Structured poster session]. AERA Annual Meeting, Orlando, FL, United States. https://convention2.allacademic.com/one/aera/aera21

44. Wen, L., & **Lai, M. H. C.** (2021, April 8-12). *A multilevel weighted bootstrap procedure to handle sampling weights* [Paper session]. AERA Annual Meeting, Orlando, FL, United States. https://convention2.allacademic.com/one/aera/aera21

43. **Lai, M. H. C.** (2020, July 14-17). *Multilevel bootstrap confidence intervals for standardized effect size* [Paper session]. Annual Meeting of the Psychometric Society (IMPS), College Park, MD, United States. https://www.psychometricsociety.org/sites/main/files/file-attachments/imps_2020_virtual_schedule_g1.pdf

42. *Tse, W. W. & **Lai, M. H. C.** (2020, July 14-17). *Measurement invariance for ordered categorical variables: The necessity of strict invariance for valid group comparisons* [Poster session]. Annual Meeting of the Psychometric Society (IMPS), College Park, MD, United States. https://www.psychometricsociety.org/sites/main/files/file-attachments/imps_2020_virtual_schedule_g1.pdf

41. *Zhang, Y. & **Lai, M. H. C.** (2020, July 14-17). *A Bayesian framework for establishing measurement invariance for observed test scores* [Poster session]. Annual Meeting of the Psychometric Society (IMPS), College Park, MD, United States. https://www.psychometricsociety.org/sites/main/files/file-attachments/imps_2020_virtual_schedule_g1.pdf

40. *Tse, W. W. & **Lai, M. H. C.** (2020, June 25-26). *Measurement invariance for ordered categorical variables: The necessity of strict invariance for valid group comparisons* [Conference Session]. A 0Meeting of Methodologies (AMOM), Vancouver, BC, Canada. http://www.sfu.ca/content/dam/sfu/psychology/research/mml/AMOM_2020_program.pdf

39. **Lai, M. H. C.** (2020, June). *Constructing bootstrap confidence intervals for standardized effect size in cluster-randomized trials* [Poster session]. Modern Modeling Methods Conference, Storrs, CT. https://modeling.uconn.edu/wp-content/uploads/sites/1188/2020/02/M3_2020_Preliminary_Schedule.pdf (Conference canceled)

38. *Tse, W. W., & **Lai, M. H. C.** (2020, June). *Path to valid means comparisons: The necessity of strict measurement invariance for ordered categorical variables* [Paper session]. Modern Modeling Methods Conference, Storrs, CT, United States. (Conference canceled)

37. *Zhang, Y., & **Lai, M. H. C.** (2020, June). *A Bayesian framework for establishing measurement invariance for observed test scores* [Poster session]. Modern Modeling Methods Conference, Storrs, CT, United States. (Conference canceled)

36. *Liu, Y., **Lai, M. H. C.**, & Kelcey, B. (2020, April 17 - 21). *Comparing multiple indicators multiple causes (MIMIC) and alignment method for investigating measurement invariance with respect to a continuous variable* [Paper Session]. AERA Annual Meeting San Francisco, CA, United States. http://tinyurl.com/u5mhnmn (Conference Canceled)

35. *Gold, A.I., **Lai, M. H. C.**, *Tureson, K., & Thames, A.D. (2020, February). *Analysis of educational bias of the Montreal Cognitive Assessment (MoCA) using differential item functioning* [Conference presentation]. Annual meeting of the International Neuropsychological Society, Denver, CO, United States. https://www.the-ins.org/meetings/denver2020/

34. Hsiao, Y., Kwok, O., & , **Lai, M. H. C.** (2019, April). *Comparisons of reliability estimates for correcting measurement errors of the exogenous composites in interaction models.* Paper presented at the annual meeting of the American Educational Research Association, Toronto, ON.

33. Wu, A. M. S., **Lai, M. H. C.**, Yogo, M., & Yu, S. (2018, Nov). Being mindful or flexible? Investigation of associated factors with problematic online gaming among Asian university students. Paper presented at the International Congress of Behavioral Medicine, Santiago, Chile.

32. *Liu, Y, & **Lai, M. H. C.** (2018, July). *Examining Bayesian approaches for investigating measurement invariance across two groups.* Poster presented at the annual meeting of the Psychometric Society, New York, NY.

31. Atari, M., Dehghani, M., Lai, M. H. C., & Graham, J. (2018, May). *Sex Differences in Moral Foundations: Evidence from 67 Countries.* Poster presented at the Association for Psychological Science Annual Convention, San Francisco, CA.

30. Kwok, O., **Lai, M. H. C.**, Tong, F., Lara-Alecio, R., Irby, B. J., Yoon, M., & Yeh, Y. (2018, April). *Analyzing complex longitudinal data in educational research: A demonstration with the project English language and literacy acquisition (ELLA) data using xxM.* Paper presented at the annual meeting of the American Educational Research Association, New York, NY.

29. **Lai, M. H. C.** (2018, April). *Confidence interval for standardized effect size in cluster-randomized trials: Comparing analytic and bootstrap methods.* Paper presented at the annual meeting of the American Educational Research Association, New York, NY.

28. **Lai, M. H. C.** & Kwok, O. (2018, March). Growth m*odels for time-varying cumulative classroom/teacher effects.* Paper presented at the Texas Universities' Educational Statistics and Psychometrics Meeting, College Station, TX.

27. **Lai, M. H. C.** & Kwok, O. (2018, March). *A Model for Time-Varying Cumulative Classroom/Teacher Effects on Students' Growth.* Paper presented at the Spring Conference of the Society for Research on Educational Effectiveness, Washington, DC.

26. Wu, A. M. S., Lai, M. H. C., & Yu, S. (2017, September). *Psychological need satisfaction, gaming motives, and Internet gaming disorder*. Paper presented at the 31st Conference of the European Health Psychology Society, Padova, Italy.

25. **Lai, M. H. C.**, & Zhang, J. (2017, April). *Evaluating fit-indexes for multivariate* t-*based structural equation modeling*. Paper presented at the annual meeting of the American Educational Research Association, San Antonio, TX.

24. **Lai, M. H. C.**, & Kwok, O. (2017, April). *Standardized mean difference for three-level partially nested data.* Paper presented at the annual meeting of the American Educational Research Association, San Antonio, TX.

23. **Lai, M. H. C.**, & Zhang, J. (2016, June). *The use of multivariate-t-based maximum likelihood for robust SEM*. Paper presented at the 4th Institute of Mathematical Statistics Asia Pacific Rim Meeting, Hong Kong.

22. Yoon, M., & **Lai, M. H. C.** (2016, June). *Testing factorial invariance with severely unbalanced samples*. Paper presented at the 4th Institute of Mathematical Statistics Asia Pacific Rim Meeting, Hong Kong.

21. Hsiao, Y. Y., Kwok, O., & **Lai, M. H. C.** (2016, April). *Modeling measurement error on interaction effect with items mean scores using structural equation modeling*. Paper presented at the annual meeting of the American Educational Research Association, Washington, DC.

20. **Lai, M. H. C.**, & Kwok, O. (2016, April). *Using design effects to determine the necessity of applying cross-classified random effects models*. Paper presented at the annual meeting of the American Educational Research Association, Washington, DC.

19. **Lai, M. H. C.**, & Kwok, O. (2016, March). *Design effects in cross-classified random effects models*. Paper presented at the Texas Universities' Educational Statistics and Psychometrics Meeting, College Station, TX.

18. Kwok, O., Yoon, M., **Lai, M. H. C.**, & Hsiao, Y. Y. (2015, July). *Partial measurement invariance then and now: Methodological aspects and practical implications*. Paper presented at the annual meeting of the Psychometric Society, Beijing, China.

17. **Lai, M. H. C.**, Kwok, O., Hsiao, Y. Y., & Cao, Q. (2015, April). *Finite population correction for two-level hierarchical linear modeling*. Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.

16. Wu, A. M. S., **Lai, M. H. C.**, & Tong, K. K. (2015, April). *Gambling refusal self-efficacy, attitude, injunctive norm and youth gambling in Macao*. Paper presented in The Third Asia Pacific Conference on Gambling & Commercial Gaming Research, Beijing, China.

15. Lara-Alecio, R., Tong, F., Irby, B. J., Guerrero, C. L., Lopez, T., **Lai, M. H. C.**, & Jimenez, D. D. (2015, April). *Third grade bilingual teachers' pedagogical differences during ESL block in a randomized control trial study*. Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.

14. **Lai, M. H. C.**, Kwok, O., Hsiao, Y. Y., & Cao, Q. (2015, March). *Finite population correction for two-level hierarchical linear modeling*. Paper presented at the Texas Universities' Educational Statistics and Psychometrics Meeting, Austin, TX.

13. **Lai, M. H. C.** (2014, November). *Bootstrap Confidence Intervals for Multilevel Effect Size*. Poster presented at the Conference "Advances in Multilevel Modeling for Educational Research", College Park, MD.

12. Cao, Q. & **Lai, M. H. C.** (2014, July). *Sensitivity of fit indices to test for cluster bias in multilevel data*. Paper presented at the 79th Annual Meeting of the Psychometric Society, Madison, WI.

11. Hsiao, Y. Y. & **Lai, M. H. C.** (2014, April). *The impact of partial measurement invariance on tests of moderation for single and multi-level data*. Paper presented at the annual meeting of the American Educational Research Association, Philadelphia, PA.

10. **Lai, M. H. C.** & Kwok, O. (2014, April). *Standardized mean difference in partially nested data*. Paper presented at the annual meeting of the American Educational Research Association, Philadelphia, PA.

9. **Lai, M. H. C.**, Tong, F., Yoon, M., Lara-Alecio, R., Irby, B. J., & Kwok, O. (2014, April). *Modeling cross-classified data with adequate within-subject variance-covariance structures: A lesson from the Project ELLA data*. Poster presented at the annual meeting of the American Educational Research Association, Philadelphia, PA.

8. Wu, A. M. S., **Lai, M. H. C.**, & Tong, K.-k. (2014, February). *Internet gambling: Participation and addiction in Macao*. Paper presented at the 5th International Gambling Conference (IGC2014), Auckland, New Zealand.

7. Wu, A. M. S., **Lai, M. H. C.**, & Tong, K. (2013, December). *Prevalence of gambling involvement and gambling disorder in Macao*. Paper presented at the Second Asia Pacific Conference on Gambling & Commercial Gaming Research (APCG2013), Kaohsiung, Taiwan.

6. **Lai, M. H. C.** & Kwok, O. (2013a, August). *Standardized mean difference in cross-classified random effect models*. Poster presented at the American Psychological Association annual convention, Honolulu, HI.

5. Wu, A. M. S., **Lai, M. H. C.**, Tong, K. K., & Tao, V. Y. K. (2013, July). *Application of the theory of planned behavior on gambling involvement among Chinese people*. Paper presented at the 13th European Congress of Psychology, Stockholm, Sweden.

4. **Lai, M. H. C.** & Kwok, O. (2013b, May). *The excuse of not using multilevel modeling: An investigation of the "design effect larger than two" rule*. Poster presented at the annual meeting of the American Educational Research Association, San Francisco, CA.

3. **Lai, M. H. C.** (2013, April). *Comparing Pearl's partial coefficient test with the other global- and local-fit measures in SEM*. Paper presented at the Texas Universities' Educational Statistics and Psychometrics Meeting, Austin, TX.

2. **Lai, M. H. C.** (2012, February). *A review of the panoply of univariate and multivariate effect size choices*. Paper presented at the annual meeting of the Southwest Educational Research Association, New Orleans, LA.

1. **Lai, M. H. C.** & Tong, K. (2010, June). 澳門市民的媒體使用及對傳媒公信力的評價 *[Macao citizen's habit of using mass media and evaluation on media credibility]*. Paper presented at the Conference on Macau's Ten-Year Development, Macau, China.

INVITED PRESENTATIONS

Correcting for unreliability and partial invariance: A two-stage path analysis approach
Texas A&M University, TX   2022 Mar
Addressing Race/Ethnicity in Statistical Analyses and Interpreting Data

Mini-Summit, Best Practices for Addressing Racial and Ethnic Diversity in Research Studies: Real World Examples and Practical "How Tos,"

University of California at Sandiego   2021 Oct

What to Do If Measurement Invariance Does Not Hold? Let's Look at the Practical Significance

University of Missouri   2021 Sep

Advancing Quantitative Science with Monte Carlo Simulation

Simulation Summer School, Psychology Postgraduate Affairs Group, the British Psychological Society   2021 June

Reliability of Composite Scores With Multilevel Data

Fordham University, NY   2021 May

Internal Consistency of Multilevel Data: Cluster Means, Centering, and Construct Meanings

Arizona State University, AZ   2020 Nov

Measurement Invariance Does Not Hold. Then What?

University of California at Davis, CA   2020 Mar

Advancing Quantitative Science with Monte Carlo Simulation

Texas A&M University, TX   2019 May

Using multilevel modeling with R

University of Macau, Macau SAR   2018 Dec

Multilevel modeling: Introduction and recent advances for behavioral research,

University of Macau, Macau SAR   2018 Dec

Introduction to Bayesian data analysis,

Texas A&M University, TX   2017 May

Practical understanding on application of structural equation modeling,

City University of Hong Kong, Hong Kong   2016 Jun

- A 2.5-hour workshop invited by the Hong Kong Society of Behavioral Health

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DEPARTMENTAL TALKS

Can we trust test scores? A methodological discussion on the impact of measurement invariance   2017 Nov

- Presentation at Power Friday, University of Cincinnati, OH

Standardized mean difference in partially nested data   2016 Nov

- Presentation at the Data Analytics Showcase & Networking Event, University of Cincinnati, OH

Quantitative methods for interdisciplinary research   2016 April

- Presentation at the Best Practices in Research Meeting, University of Cincinnati, OH

Standardized mean difference in partially nested data   2015 Oct

- Research presentation at the Quantitative and Mixed Methods Research Methodologies (QMRM) Brown Bag, University of Cincinnati, OH

Doing Monte Carlo simulation studies with Mplus   2013 Jan & 2014 Jan

- Presentation at Texas A&M University, TX

HONORS AND AWARDS

Outstanding Reviewer   2020
Journal of Educational and Behavioral Statistics

American Educational Research Association, Division D   2019
Nominated for Early Career Award

Distinguished Honor Graduate   2015
College of Education and Human Development, Texas A&M University

Travel Award to present at the Conference "Advances in Multilevel Modeling for Educational Research" at University of Maryland   2014
The Society for Multivariate Experimental Psychology

Graduate Research Grant   2014
College of Education and Human Development, Texas A&M University, for the project "Bootstrap Confidence Intervals for Multilevel Effect Size"

Graduate Travel Grant   2013, 2014, & 2015
College of Education and Human Development, Texas A&M University

Outstanding Academic Paper Award   2011
University of Macau

Jorge Alvares Foundation Academic Prize   2011
University of Macau

Rector's Honor List   2011
University of Macau

TEACHING EXPERIENCE

University of Southern California, Los Angeles, CA
Instructor
PSYC 314L – Experimental Research Methods (Evaluation: 3.45 / 4)
PSYC 621L – Seminar in Quantitative Psychology (Multilevel Modeling) (Evaluation: 3.93 / 4)
PSYC 621L – Seminar in Quantitative Psychology (Bayesian Data Analysis) (Evaluation: 3.84 / 4)
PSYC 575L – Multilevel Modeling (Evaluation: 3.94 / 4)
PSYC 573L – Bayesian Data Analysis (Evaluation: 3.86 / 4)
PSYC 520 – Fundamentals of Psychological Measurement (scheduled for 2023 Spring)

University of Cincinnati, Cincinnati, OH
Instructor (Instructor evaluation: 4.61 / 5)
EDST 8087 – Multilevel Models for Educational Studies
EDST 8075 – Bayesian Data Analysis
EDST 7082 – Getting Started With Multilevel Modeling
EDST 7011 – Statistical Data Analysis II
EDST 7010 – Statistical Data Analysis I

Texas A&M University, College Station, TX
Teaching Assistant

EPSY 635 - Educational Statistics (Online)
EPSY 651 - Theory of Structural Equation Modeling (Teaching Evaluation: 4.83 / 5.00)
EPSY 652 - Hierarchical Linear Modeling
EPSY 653 - Advanced Structural Equation Modeling

MENTORING EXPERIENCE

Current Ph.D. Students, Committee Chair
Ozcan, Meltem, University of Southern California
Tse, Wing Yee (Winnie), University of Southern California
Zhang, Yichi, University of Southern California
Zhang, Gengrui (Jimmy), University of Southern California

Current Ph.D. Students, Committee Member
Aviv, Elizabeth (Lizzie), University of Southern California
Arya, Pragya, University of Southern California
Byrd, Katie, University of Southern California
Gold, Alaina, University of Southern California
Haque, Ony, University of Southern California
Lai, Xu, University of Southern California
McGee, Nathan, University of Cincinnati
Saldich, Emily, University of Southern California
Xu, Ellie, University of Southern California
Zhang, Sherry, University of Southern California

Past Ph.D. Students, Committee Chair (Initial job placement)
Liu, Yuanfang, University of Cincinnati (Post doc at Purdue University, IN, United States)
Sunny, Cijy, University of Cincinnati (Lecturer [equivalent to Assistant Professor in US],
    Murdoch University, Murdoch, Western Australia)

Past Ph.D. Students, Committee Member
Atari, Mohammad, University of Southern California (Postdoctoral fellow, Harvard University,
    Cambridge, 2021)
Bello, Mariel, University of Southern California (Postdoctoral Research Fellow, Brown
    University, 2022)
Chen, Ching-Chen, University of Cincinnati (Assistant Professor, University of Nevada, Las
    Vegas, 2016)
Christie, Nina, University of Southern California
Ho, Jean, University of Southern California
Hoover, Joe, University of Southern California (Postdoctoral fellow, Northwestern University,
    Evanston, 2019)
Hsiao, Yu-Yu, Texas A&M University (Postdoctoral fellow, University of New Mexico,
    Albuquerque, 2017)
Jhaveri, Nina, University of Southern California (2022)

Ji, Yuhong, Texas A&M University (Data Analyst, Texas Education Agency, Austin, 2020)

Khaled, Mona, University of Southern California (2020)

O'Donnell, S. Casey, University of Southern California (Postdoctoral fellow, University of Southern California, Los Angeles, 2021)

Zhang, Lin (Lynn), University of Southern California (UX Researcher, Google, 2022)

Zhao, Mengtian, University of Southern California (2020)

Past Master Students, Committee Member
McGee, Nathan, University of Cincinnati

COMPUTER SKILLS

Statistics:	R, SAS, SPSS, Stata
SEM:	AMOS, LISREL, Mplus, R (lavaan, OpenMx, xxM)
Multilevel:	HLM, R (lme4, nlme, brms), SAS (PROC MIXED), SPSS (MIXED), Stata (xtmixed)
Psychometrics:	IRTPRO, R (ltm, mirt), WinSteps
Bayesian:	JAGS, Stan, WinBUGS
Others:	Ci3 CATI, C++, HTML & CSS, Julia, LaTeX, Linux, Markdown, Mathematica, Octave, Python, SQL, TeleForm, Visual Basic

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PROFESSIONAL SERVICE

Editorial Board/Consulting Editor

Behavior Research Methods	2020–Present
Journal of Behavioral Data Science	2021
Journal of Educational and Behavioral Statistics	2021–Present
Psychological Methods	2022–Present

Ad Hoc Reviewer

Advances in Methods and Practices in Psychological Science, Alcohol and Alcoholism, Asian American Journal of Psychology, Assessment, Behavior Research Methods, Educational and Psychological Measurement, Evaluation Review, Evolutionary Psychology, Frontiers in Psychology, Journal of Consulting and Clinical Psychology, Journal of Educational and Behavioral Statistics, Journal of Experimental Education, Journal of Mixed Methods Research, Journal of Modern Applied Statistical Methods, Journal of Personality, Journal of School Psychology, Methodology, Multivariate Behavioral Research, Psychological Methods, Research Synthesis Methods, Reviews of Educational Research, School Psychology Review, Sociological Methods & Research, Structural Equation Modeling: A Multidisciplinary Journal

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PROFESSIONAL MEMBERSHIPS

American Educational Research Association (Member; Chair for the multilevel SIG for 2020/2021)

American Psychological Association Division 5 (Member)
American Statistical Association (Member)
Hong Kong Society of Behavioral Health (Advisor, Methodology Advisor Group)
Psychometric Society (Member)
Society for Research in Educational Effectiveness (Member)