

CURRICULUM VITA

**Akihito Kamata**

**GENERAL INFORMATION**

**University Address:** Annette Caldwell Simmons Hall, Suite 345  
Southern Methodist University  
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Dallas, TX 75275-0114

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**ACADEMIC APPOINTMENTS**

**Southern Methodist University**

*June 2022 –*      **Mary Elizabeth Holdsworth Endowed Professor**  
*Current*              Simmons School of Education and Human Development

*May 2020 -*      **Ph.D. Program Director / Director of Graduate Studies**  
*Current*              Simmons School of Education and Human Development

*Aug. 2013 –*      **Professor**  
*Current*              Department of Education Policy & Leadership  
                            Department of Psychology  
                            Center on Research and Evaluation (Aug. 2013 – Dec. 2020)

*March 2015 –*      **Executive Director**  
*Dec. 2020*              Center on Research and Evaluation

**University of Oregon**

*Sept. 2009 to*      **Professor**  
*Aug. 2013*              **Department Head** (Sept. 2011 – Aug. 2013)  
                            Department of Educational Methodology, Policy, and Leadership,

**Florida State University**

*Aug. 2004 to*      **Associate Professor**  
*Aug. 2009*              **Department Chair** (May 2007 – Aug. 2009)  
                            Department of Educational Psychology & Learning Systems

*Aug. 1998 to*      **Assistant Professor**  
*Aug. 2004*              Department of Educational Psychology & Learning Systems (2002-2004)  
                            Department of Educational Research (1998-2002)

## OTHER APPOINTMENTS

### Visiting Professorship

- July. 2014*      **Visiting Professor**, Department of Statistics,  
**Chulalongkorn University, Bangkok Thailand.**
- Jan. 2012 to  
Feb 2012*      **Visiting Professor**, Faculty of Commerce and Accountancy,  
**Chulalongkorn University, Bangkok Thailand.**
- Jan. 2005 to  
June 2005*      **Visiting Research Associate Professor**, Department of Psychology,  
**University of North Carolina at Chapel Hill.**

### Fellowship

**Statistical and Applied Mathematical Sciences Institute (SAMSI)**, Research Triangle Park,  
North Carolina. 2004-05 Social Science Program. (September 2004)

### Sabbatical

- Jan. 2005 to  
May 2005*      Statistical and Applied Mathematical Sciences Institute (SAMSI),  
Research Triangle Park, NC.

## PROFESSIONAL PREPARATION

- Sept. 1991 to  
Aug. 1998*      Ph.D., Michigan State University, East Lansing, MI.  
Major: Measurement and Quantitative Methods.  
Dissertation: *Some generalizations of the Rasch model by the hierarchical  
generalized linear model.*
- Sept. 1989 to  
Dec. 1990*      M.S., Eastern Washington University, Cheney, WA.  
Major: Experimental Psychology.
- April 1984 to  
March 1988*      B.Ed., University of Yamanashi, Kofu, Japan.  
Major: Psychology and Elementary Education.

## MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

- American Educational Research Association
- National Council on Measurement in Educational
- Psychometric Society

## SCHOLARLY ACTIVITIES

### Contracts and Grants

#### Contracts and Grants Funded

- Kamata, A., Potgieter, C., Nese, J. F., & Kara, Y. Developing Computational Tools for Model-based Oral Reading Fluency Assessments. Funded by **Institute of Educational Science - U.S. Department of Education** to Southern Methodist University (August 2020 – July 2023). Total award **\$899,901** (PI).
- Nese, J. F., Kamata, A., Saez, L., & Nese, R. A Comprehensive Measure of Reading Fluency: Uniting and Scaling Accuracy, Rate, and Prosody. Funded by **Institute of Educational Science - U.S. Department of Education** to University of Oregon (July 2020 – June 2024). Total award **\$1,399,379** (co-PI).
- Baker, D., Kamata, A., Larson, E., Richards-Tutor, C. English Learner Vocabulary Acquisition Next Generation (ELVA 2.0). Funded by **Institute of Educational Science - U.S. Department of Education** to Southern Methodist University (August 2020 – July 2024). Total award **\$1,399,943** (co-PI).
- Kamata, A., Little, D., Baker, S., Wight, A., & Farmer, D. A Research Partnership to Improve Kamata, A., Little, D., Baker, S., Wight, A., & Farmer, D. A Research Partnership to Improve the Quality of Pre-K Classroom Practices. Funded by **Institute of Educational Science - U.S. Department of Education** (July 2018 – June 2020). Total award **\$400K**. (PI)
- Nese, J. F. & Kamata, A. Measuring Oral Reading Fluency: Computerized Oral Reading Evaluation (CORE). Funded by **Institute of Educational Science - U.S. Department of Education** to University of Oregon (August 2014 – July 2018). Total award **\$1.6M** (Sub-award to SMU **\$372,781**) (co-PI for the project, and PI for sub-award).
- Al Otaiba, S., Allor, J., Yovanoff, P., & Kamata, A. Project FOCUS: Exploring RTI implementation with a focus on students receiving Tier 3 and special education. Funded by **Institute of Educational Science - U.S. Department of Education** to Southern Methodist University (July 2017 – June 2021). Total award **\$1.6M** (co-PI for the project).
- Kamata, A. Examining the validity of curriculum-based standardized learning and assessment system. Funded by **Istation** (September 2014 – August 2017) to Southern Methodist University. Total award **\$487,323** (PI for the project).
- Foorman, B. Measuring Reading Progress in Struggling Adolescents. Funded by **Institute of Educational Science - U.S. Department of Education** to Florida State University (March 2009 – February 2012). Total award **\$1.5M**. (Sub-award to University of Oregon **\$103,511**) (Methodologist for the project, and PI for the sub-award).
- Kamata, A. Differential Item Functioning Analyses for Students with Test Accommodations on NAEP test items. Funded by **National Center for Education Statistics - U.S. Department of Education** to Florida State University (July 2003 – May 2005; Award Number: R902B030025). Total award **\$95,163** (PI for the project).

- Kamata, A. Effects of FCAT test items on students with disabilities and English language learners. Funded by **Florida Department of Education** to Florida State University (Oct. 1, 2006 – Aug. 31, 2007; Award Number: 371-90950-7R002). Total award **\$45,000** (PI for the project).
- Hassler, L., Tenenbaum, G., & Kamata, A. NROTC Scholarship Selection Model Evaluation and Revision. Funded by **Naval Educational and Training Command** to Florida State University (Oct. 2002 - December 2003; Award Number: N00140-02-Q-3342). Total award **\$1.7M** (co-PI for the project).
- Tate, R. & Kamata, A. A Study of Tasks Related to the Florida Comprehensive Achievement Test. Funded by **Florida Department of Education** to Florida State University (May 1999 – Aug. 1999; Award Number: 371-90950-90004). Total award **\$21,952** (co-PI for the project).
- Kamata, A. Tasks Associated with Large Scale Assessment Programs. Funded by **Florida Department of Education** to Florida State University (Aug. 2004 – Aug. 2009; Award Number: 371-90950-5R001; 6R001; 7R001; 8R001; 9R001). Total award **\$353,132** (PI for the project).
- Kamata, A. Professional Service Related to Student Assessment. Funded by **Leon County School Board** to Florida State University (July 2002 – June 2008). Total award **\$162,150** (PI for the project).

## Publications

### Refereed Journal Articles

71. Wang, K., Qiao, X., Sammit, G., Larson, E., Nese, J., & Kamata, A. (2024). Improving automated scoring of prosody in oral reading fluency using deep learning algorithm. *Frontiers in Education-Assessment, Testing and Applied Measurement*.
70. Potgieter, C., Qiao, X., Kamata, A., & Kara, Y. (2024). Likelihood-based estimation of model-derived oral reading fluency. *Journal of Educational Measurement*.  
<http://dx.doi.org/10.1111/jedm.12404>
69. Ip, K., Song, J., Wen, W., Yan, J., Yang, H., Shen, Y., Kamata, A., & Kim, S. Y. (2024). Unique and Interactive Roles of Economic Stress and Discrimination on Heterogeneous Development among Chinese American Adolescents: An 8-year Longitudinal Study. *Journal of Developmental Psychology*.
68. Qiao, X., Kamata, A., & Potgieter, C. (2024). Incorporating Calibration Errors in Oral Reading Fluency Scoring. *British Journal of Mathematical and Statistical Psychology*.  
<https://doi.org/10.1111/bmsp.12348>
67. Kara, Y., Farmer, D., Wright, P. A., Kamata, A., Hujar, J., & Baker, S. K. (2024). Examining the Effects of Prekindergarten to Second Grade Classroom Quality on Early Elementary Achievement. *Frontiers in Education-Educational Psychology*.  
<http://dx.doi.org/10.3389/feduc.2024.1370573>
66. Wen, W., Ip, K., Lee, S., Lopez, B., Kamata, A., Lui, P., & Kim, S. Y. (2023). Acculturation and daily smoking behavior among Mexican American youth: The moderating role of

- executive function. *Journal of Substance Abuse Treatment*.  
<https://doi.org/10.1016/j.josat.2022.208948>
65. Kara, Y., Kamata, A., Emre, E., Qiao, X., & Nese, J. F. T. (2023). Predicting oral reading fluency by between-word silence times using natural language processing and random forest algorithm. *Psychological Test and Assessment Modeling*. 65(1), 36-54.  
[https://www.psychologie-aktuell.com/fileadmin/Redaktion/Journale/ptam\\_2023-1/PTAM\\_\\_1-2023\\_2\\_kor.pdf](https://www.psychologie-aktuell.com/fileadmin/Redaktion/Journale/ptam_2023-1/PTAM__1-2023_2_kor.pdf)
  64. Lui, P. P., & Kamata, A. (2023). Harmonizing assessments of everyday racial discrimination experiences: The multigroup everyday racial discrimination scale (MERDS). *Assessment*. <https://doi.org/10.1177/10731911231162357>
  63. Kara, Y., Kamata, A., Qiao, X., Potgieter, N., & Nese, J. F. T. (2023). Equating oral reading fluency scores: A model-based approach. *Educational and Psychological Measurement*.  
<http://dx.doi.org/10.1177/00131644221148122>
  62. Bui, M. T., Potgieter, C. J., & Kamata, A. (2022). Penalized likelihood methods for modeling count data. *Journal of Applied Statistics*. Advance online publication. <https://doi.org/10.1080/02664763.2022.2103101>
  61. Miyazaki, Y., Kamata, A., Uekawa, K., & Sun, Y. (2022). Bias for treatment effect by measurement error in pretest in ANCOVA analysis. *Educational and Psychological Measurement*. 82(6), 1130-1152. <https://doi.org/10.1177/00131644211068801>
  60. Song, J., Ip, K., Yan, J., Lui, P. P., Kamata, A., & Kim, S. Y. (2021). Pathways linking ethnic discrimination and drug-using peer affiliations to underage drinking status among Mexican-origin adolescents. *Experimental and Clinical Psychopharmacology*. Advance online publication. <https://doi.org/10.1037/pha0000504>
  59. Kara, Y., Kamata, A., Gallegos, E., Patarapichayatham, C., Potgieter, C. J. (2021). Covariate balance as a quality indicator for propensity score analysis. *Journal of Measurement and Evaluation in Education and Psychology*. 12(4), 374-387.  
<https://doi.org/10.21031/epod.993571>
  58. Rancher, C., Jouriles, E., McDonald, R., Kamata, A., & Jackson, M. (2021). Self-blame in Adolescents who have been Sexually Abused: Factor Structure and Differential Correlates of Abuse-specific and Global Measures. *Assessment*. Advance online publication. <https://doi.org/10.1177/10731911211027632>
  57. Rabin, L. A., Miles, R., Kamata, A., Krishnan, A., Elbulok-Charcape, M., Stewart, G., & Compton, M. T. (2021). Development, item analysis, and initial reliability and validity of three forms of a multiple-choice mental health literacy assessment for college students (MHLA-c). *Psychiatry Research*. doi: 10.1016/j.psychres.2021.113897
  56. Nese, J. F. T., & Kamata, A. (2021). Evidence for automated scoring and shorter passages of CBM-R in early elementary school. *School Psychology*. 36 (1), 47-59. doi: 10.1037/spq0000415
  55. Hsieh, M., & Kamata, A. (2020). Examining the pre-service school principals' impromptu speech skill with a many-facet Rasch model. *Journal of Applied Measurement*. 21(3), 282-293. PMID: 33983900.

54. Kara, Y., & Kamata, A. (2020). Multilevel item response model with heterogeneous within-cluster variances. *The Journal of Experimental Education*. Published Online First. <https://www.tandfonline.com/doi/full/10.1080/00220973.2020.1858015>
53. Sano, M., Baker, D. L., Collazo, M., Le, N., & Kamata, A. (2020). Measuring the expressive language and vocabulary of Latino English learners using hand transcribed speech data and automated scoring. *International Journal of Intelligent Technologies and Applied Statistics*, 13 (3), 229-256. DOI: 10.6148/IJITAS.202009\_13(3).0003
52. Nese, J. F. A., & Kamata, A. (2020). Addressing the large standard error of traditional CBM-R: Estimating the conditional standard error of a model-based estimate of CBM-R. *Assessment for Effective Intervention*. Published Online First. <https://doi.org/10.1177/1534508420937801>
51. Baker, D. L., Ma, H., Kamata, A., Conry, J. M., & Polanco, P. (2020). Development and promise of a vocabulary intelligent tutoring system for second-grade Latinx English learners. *Journal of Research on Technology in Education*. <https://doi.org/10.1080/15391523.2020.1762519>
50. Liang, X., Kamata, A., & Li, J. (2020). Hierarchical Bayes approach to estimate the treatment effect for randomized controlled trials. *Educational and Psychological Measurement*, 80, 1090-1114. doi:10.1177/0013164420909885
49. Kara, Y., Kamata, A., Potgieter, C., & Nese, J. F. A. (2020). Estimating model-based oral reading fluency: Bayesian approach. *Educational and Psychological Measurement*, 80, 847-869. doi:10.1177/0013164419900208
48. Stewart, G., Kamata, A., Miles, R., Grandoit, E., Mandelbaum, F., Quinn, C., & Rabin, L. (2019). Predicting mental health help seeking orientations among diverse undergraduates. *Journal of Affective Disorders*, 257, 271-280.
47. Al Otaiba, S., Lan, P., Baker, K., Allor, J., Rivas, B., Yovanoff, P., & Kamata, A. (2019). Elementary teacher's knowledge of response to intervention implementation: A preliminary factor analysis. *Annals of Dyslexia*, 69, 34-53.
46. Baker, S., Kamata, A., Wright, P., Farmer, D. & Nippert, R. (2018). Using propensity score matching to estimate treatment effects of afterschool programs on third grade reading outcomes, *Journal of Community Psychology*, 47, 117-124.
45. Patarapichayatham, C. & Kamata, A. (2018). Evaluation of ability estimates under bi-factor testlet model. *Journal of Graduate Studies*, 11, 163-170.
44. Kamata, A., Kara, Y., Patarapichayatham, C., & Lan, P. (2018). Evaluation of analysis approaches for latent class analysis with auxiliary linear growth model. *Frontiers in Psychology*.
43. Kara, Y., & Kamata, A. (2017). Parameter recovery for the 1-P HGLLM with non-normally distributed level-3 residuals. *Educational Sciences: Theory & Practice*, 17, 1165-1177.
42. Nese, J. F. T., Kamata, A., & Tindal, J. (2017). A two-step sampling weight approach to growth mixture modeling for emergent and developing skills with distributional changes over time. *Journal of School Psychology*, 61, 55-74.

41. Saito, N., Kamata, A., Itoga, M., Tamaki, M., Kayaba, H., Ritz, T. (2017). Assessment of biological, psychological and adherence factors in the prediction of step-down treatment for patients with well-controlled asthma. *Clinical & Experimental Allergy*, 47, 467-478.
40. Jouriles, E. N., & Kamata, A. (2016). Advancing measurement of intimate partner violence. *Psychology of Violence*, 6, 347-351.
39. Tansakul, J., Kamata, A., Patarapichayatham, C., Kanjanawasee, S. (2015). An Evaluation of items and dimensional structure of a scale to measure teachers' professional commitment in Thailand. *Asian Social Science*, 11, 15-24.
38. Patarapichayatham, C., & Kamata, A. (2014). Effects of differential item discriminations between individual-level and cluster-level under the multilevel item response theory model. *Open Journal of Applied Sciences*, 4, 425-432.
37. Patarapichayatham, C., Anderson, D., & Kamata, A. (2013). Middle school transition: An application of latent transition analysis (LTA) on easyCBM Benchmark Mathematics Data. *International Journal of Educational Administration and Development*, 4, 745-756.
36. Kamata, A., Nese, J. F. T., Patarapichayatham, C., & Lai, C. F. (2013). Modeling nonlinear growth with three data points: Illustration with benchmarking data. *Assessment for Effective Intervention*, 32, 105-116.  
 \*This paper was selected as the "Article of the Year" by the editorial board of the journal.
35. Cheong, Y. F., & Kamata, A. (2013). Centering, scale indeterminacy, and differential item functioning: Detection in hierarchical generalized linear and nonlinear mixed models. *Applied Measurement in Education*, 26, 233-252.
34. Koon, S. & Kamata, A. (2013). An applied examination of methods for detecting differential distractor functioning. *International Journal of Quantitative Research in Education*, 1, 364-382.
33. Jiao, H., Kamata, A., Wang, S., & Jin, Y. (2012). A multilevel testlet model for dual local dependence. *Journal of Educational Measurement*, 49, 82-100.
32. Patarapichayatham, C., Kamata, A., & Kanjanawasee, S. (2012). Evaluation of model selection strategies for cross-level two-way differential item functioning analysis. *Educational and Psychological Measurement*, 72, 44-51
31. Fukuhara, H. & Kamata, A. (2011). A bi-factor multidimensional item response theory model for differential item functioning analysis on testlet-based items. *Applied Psychological Measurement*, 35, 604-622.
30. Bares, C. B., Andrade, F., Delva, J., Grogan-Kaylor, A. & Kamata, A. (2011). Differential Item Functioning between Chilean Boys and Girls on a Measure of Anxiety and Depression. *International Journal of Social Psychiatry*, 58, 386-392.
29. Atar, B. & Kamata, A. (2011). Comparison of IRT likelihood ratio test and logistic regression DIF detection procedures. *Hacettepe University Journal of Education*, 41, 36-47.

28. Patarapichayatham, C., Kamata, A., & Kanjanawasee, S. (2009). Cross-level two-way differential item functioning analysis model by multilevel Rasch modeling. *Journal of Research Methodology & Cognitive Science*, 7, 15-21.
27. Li, H., Lee, D., Pfeiffer, S. I., Kamata, A., Kumtepe A. T., & Rosado, J. (2009). Measurement invariance of the Gifted Rating Scales among participants from Puerto Rico, China, U.S., Turkey, and South Korea. *School Psychology Quarterly*, 24, 186-198.
26. Johnson, M. B., Edmonds, W. A., Kamata, A., & Tenenbaum, G. (2009). Determining individual affect-related performance zones (IAPZs): A tutorial. *Journal of Clinical Sport Psychology*, 3, 34-57.
25. Edmonds, W. A., Tenenbaum, G., Kamata, & Johnson, M. (2009). The role of collective efficacy in adventure racing teams. *Small Group Research*, 40, 163-180
24. Kamata, A. & Bauer, D. J. (2008). A note on the relationship between factor analytic and item response theory models. *Structural Equation Modeling*, 15, 136-153.
23. Bilir, M. K., Binici, S., & Kamata, A. (2008). Growth mixture modeling (GMM): Application to reading achievement data from a large scale assessment. *Measurement and Evaluation in Counseling and Development*, 41, 104-117.
22. Edmonds, W. A., Tenenbaum, G., Mann, D. T. Y., Johnson, M., & Kamata, A. (2008). The effects of biofeedback training on affective regulation and simulated race car performance: A multiple case study analysis. *Journal of Sport Sciences*, 26, 1-13.
21. Johnson, M. B., Edmonds, W. A., Tenenbaum, G., & Kamata, A. (2007). The relationship between affect and performance in competitive intercollegiate tennis: A dynamic conceptualization and application. *Journal of Clinical Sports Psychology*, 1, 10-146.
20. Chaimongkol, S., Huffer, W. F., & Kamata A. (2007). An explanatory different item functioninf (DIF) model by the WinBUGS 1.4. *Songklanakarin Journal of Science and Technology*, 29, 449-458.
19. Chaimongkol, S., Huffer, W. F., & Kamata A. (2006). A Bayesian approach for fitting a random effect differential item functioning across group units. *Thailand Statistician*, 4, 27-41.
18. Abell, N. Ryan, S. & Kamata, A. (2006). Assessing capacity for self-care among HIV-positive heads of household: Bilingual validation of the parental self-care scale. *Social Work Research*, 30, 233-243.
17. Abell, N., Ryan, S., & Kamata, A. (2006). Bilingual validation of the Family Responsibility Scale: Assessing stress among HIV+ heads of household stress. *Journal of Social Service Research*, 32, 195-212.
16. Kamata, A., & Tate, R. L. (2005). The performance of a method for the long-term equating of mixed format assessment. *Journal of Educational Measurement*, 42, 193-213.
15. Hayashi, K. & Kamata, A. (2005). A note on the stability of Alpha Coefficient with standardized variables. *Psychometrika*, 70, 579-586.
14. Chu, K. L., & Kamata, A. (2005). Test equating with the presence of DIF. *Journal of Applied Measurement*, 6, 342-354.

This paper was also published as a book chapter;



- Chu, K.L., & Kamata, A. (2007). Test equating with the presence of DIF. In E. Smith & R. Smith (Eds). *Rasch measurement: Advanced and specialized applications* (pp. 390-404). Maple Grove, MN: JAM Press.
13. Jiao, H, Wang, S., & Kamata, A. (2005). Exploring the possibility of using hierarchical generalized linear model to model local item dependence. *Journal of Applied Measurement, 6*, 311-321.
- This paper was also published as a book chapter;
- Jiao, H, Wang, S., & Kamata, A. (2007). Exploring the possibility of using hierarchical generalized linear model to model local item dependence. In E. Smith & R. Smith (Eds). *Rasch measurement: Advanced and specialized applications* (pp.435-451). Maple Grove, MN: JAM Press.
12. Beretvas, S. N., & Kamata, A. (2005). The Multilevel Measurement Model: Introduction to the Special Issue. *Journal of Applied Measurement, 6*, 247-254.
11. Wilke, D. J., Kamata, A., & Cash, S. J. (2005). Modeling treatment motivation in substance-abusing women with children. *Child Abuse & Neglect, 29*, 1313-1323.
10. Kahraman, N., & Kamata, A. (2004). Increasing the precision of subscale scores by using out-of-scale information. *Applied Psychological Measurement, 28*, 407-426.
9. Kamata, A., & Vaughn, B. K. (2004). An introduction to differential item functioning analysis. *Learning Disabilities: A Contemporary Journal, 2*, 49-69.
8. Genc, E. & Kamata, A. (2004). Effect of field trip on students' science achievement: A meta-analysis. *Academic Exchange Quarterly, 8*(3), 121-124.
7. Golden, A.S., Tenenbaum, G., & Kamata, A. (2004) Affect-related performance zones: An ideographic method for linking affect to performance. *International Journal of Sport & Exercise Psychology, 2*, 42-60.
6. Kitsantas, A., Gilligan, T. D., & Kamata, A. (2003). College women with eating disorders: Self-Regulation, Life Satisfaction, and Positive/Negative Affect. *The Journal of Psychology, 137*, 381-395.
5. Kamata, A., Tenenbaum, G., Hanin, Y. (2002). Individual Zone of Optimal Functioning (IZOF): A Probabilistic Conceptualization. *Journal of Sport & Exercise Psychology, 24*, 189-208.
4. Kamata, A. (2001). Item analysis by the hierarchical generalized linear model. *Journal of Educational Measurement, 38*, 79-93.
3. Delva, J., Mathiesen, S. G. & Kamata, A. (2001). Use of illegal drugs among mothers in the United States: A multi-level analysis of individual and community level influences. *Ethnicity and Disease, 11*, 614-625.
2. Bower, B. L., & Kamata, A. (2000). Factors influencing student satisfaction with online courses. *Academic Exchange Quarterly, 4*(3), 52-56.
1. Becker, B. J. & Synthesis Research Group. (1998). Mega-Review: Books on meta-analysis. *Journal of Educational and Behavioral Statistics, 23*, 77-92.

2. Wu, Z., Larson, E., Sano, M., Baker, D., Gage, N., & Kamata, A. (2023). Towards scalable vocabulary acquisition assessment with BERT. *Proceedings on the Tenth ACM Conference on Learning*, 2023, pp. 272-276. <https://doi.org/10.1145/3573051.3596170>
1. Sammit, G., Wu, Z., Wang, Y., Kamata, A., Nese, J. F. T., & Larson, E. (2022). Automated Prosody Classification for Oral Reading Fluency with Quadratic Kappa Loss and Attentive X-Vectors. *ICASSP 2022 - 2022 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 2022, pp. 3613-3617, doi: 10.1109/ICASSP43922.2022.9747391.

### **Books**

2. Tenenbaum, G., Eklund, R. C., & Kamata, A. (Eds.) (2012). *Handbook of Measurement in Sport and Exercise Psychology*. Champaign, IL: Human Kinetics.
1. Abell, N., Springer, D. W., & Kamata, A. (2009). *Developing and Validating Rapid Assessment Instruments*. Oxford University Press.

### **Book Chapters**

9. Jiao, H., Kamata, A., & Xie, C. (2016). Multilevel cross-classified testlet model for complex item and person clustering in item response data analysis. In J. R. Harring, L. M. Stapleton, S. N. Beretvas (Eds.), *Advances in Multilevel Modeling for Educational Research*. (pp. 139-162). Charlotte, NC: Information Age Publishing.
8. Vaughn, B. K., Lee, H-Y. & Kamata, A. (2012). Reliability. In G. Tenenbaum, R. C. Eklund, & A. Kamata (Eds.), *Handbook of Measurement in Sport and Exercise Psychology*. (pp.25-32). Champaign, IL: Human Kinetics.
7. Edmonds, W. A., Johnson, M. B., Tenenbaum, G. & Kamata, A. (2012). Idiosyncratic Measures in Sport. In G. Tenenbaum, R. C. Eklund, & A. Kamata (Eds.), *Handbook of Measurement in Sport and Exercise Psychology*. (pp.81-90). Champaign, IL: Human Kinetics.
6. Kamata, A. & Vaughn, B. K. (2011). Multilevel Item Response Theory Modeling. In J. Hox & J. K. Roberts (Eds.), *Handbook of Advanced Multilevel Analysis*. (pp. 41-57). New York: Routledge.
5. Kamata, A., Bauer, D. J., & Miyazaki, Y. (2008). Multilevel Measurement Model. In A. A. O'Connell & D. B. McCoach (Eds.). *Multilevel Analysis of Educational Data*. (pp.345-388). Charlotte, NC: Information Age Publishing.
4. Kamata, A. & Cheong, F. (2007). Multilevel Rasch model. In M. von Davier & C. H. Carstensen (Eds). *Multivariate and mixture distribution Rasch models: Extensions and applications* (pp. 217-232). New York: Springer.
3. Chu, K.L., & Kamata, A. (2007). Test equating with the presence of DIF. In E. Smith & R. Smith (Eds). *Rasch measurement: Advanced and specialized applications* (pp. 390-404). Maple Grove, MN: JAM Press.

2. Jiao, H, Wang, S., & Kamata, A. (2007). Exploring the possibility of using hierarchical generalized linear model to model local item dependence. In E. Smith & R. Smith (Eds). *Rasch measurement: Advanced and specialized applications* (pp.435-451). Maple Grove, MN: JAM Press.
1. Tenenbaum, G., Kamata, A., & Hayashi, K. (2007). Measurement in sport and exercise psychology: A new Outlook on selected issues of reliability and validity. In G. Tenenbaum & R. C. Eklund (Eds.), *Handbook of Sport Psychology* (3<sup>rd</sup> ed) (pp.757-773). Hoboken, NJ: Wiley.

## **Selected Presentations**

### **Keynote Presentations**

- Kamata, A. (2014). Modeling Nonlinear Growth with Three Measurement Occasions. Keynote presentation at the 22<sup>nd</sup> International Conference of Educational Research, Measurement, & Statistics, Thailand, January 2014. [International]
- Kamata, A. (2012). Monitoring students' progress. Keynote presentation at the Fifth International Conference on Educational Reform, Thailand, March 2012. [International]
- Kamata, A. (2009). *The Global Issues and Trends in Educational Statistics: Merging Psychometric and Statistical Models*. Keynote presentation at the Annual Meeting of International Meeting of Educational Research, Thailand, January 2009. [International]

### **Workshops**

- Kamata, A. (2021). Introduction to Multilevel Modeling by R and RStudio. Congress in Measurement and Evaluation in Education and Psychology, Ankara, Turkey.
- Kamata, A. (2014). Developing and Validating Measurement Scales. Chulalongkorn University, Bangkok, Thailand, July 8-10, 2014. [International]
- Kamata, A. (2013). Introduction to Bayesian Data Analysis for Educational Researchers and Behavioral Scientists, Chulalongkorn University, Bangkok, Thailand, June 22-23, 2013. [International]
- Kamata, A. & Patarapichayatham, C. (2011). *Mplus Workshop*. Three-day workshop at Chulalongkorn University, Bangkok, Thailand, March 2011. [International]
- Kamata, A. & Binici, S. (2009). *IRT Test Equating and Linking*. One-day invited workshop for the DFG Summer Academy, Bamberg, Germany, August 2009. [International]

### **Refereed Presentations**

- Kamata, A., Gallegos, E., Patarapichayatham, C., & Kara, Y. (2019). Evaluation of Covariate Balance as a Quality Indicator for Propensity Score Matching Analysis. Paper presented at the annual meeting of the American Educational Research Association, Toronto, Canada, April 2019. [National]
- Rahim, H., Luna, H., & Kamata, A. (2019). Evaluation of the Education for Sustainability in Galapagos Program. Paper presented at the annual meeting of the American Educational Research Association, Toronto, Canada, April 2019. [National]

- Liang, X., Kamata, A., Sirganci, G., & Li, J. (2019). Hierarchical Bayesian Approach to Estimate Interventional Effect in Randomized Control Trials. Paper presented at the annual meeting of the American Educational Research Association, Toronto, Canada, April 2019. [National]
- Ma, H., Kamata, A., & Kara, Y. (2019). Evaluation of the Utility of Informative Priors in SEM with Small Samples. Poster presented at the annual meeting of the American Educational Research Association, Toronto, Canada, April 2019. [National]
- Kamata, A., Kara, Y., Liang, X., & Le, N. (2019). Power Analysis for Moderated Mediation Models with Continuous Moderator Variable. Poster presented at the annual meeting of the American Educational Research Association, Toronto, Canada, April 2019. [National]
- Miyazaki, Y., Kamata, A., & Uekawa, K. (2019). Impacts of Measurement Error in Pretest on Treatment Effect Estimate in Pretest-and-Post Design Analysis. Poster presented at the annual meeting of the American Educational Research Association, Toronto, Canada, April 2019. [National]
- Potgieter, C., & Kamata, A. (2019). Quantifying Reliability for Oral Reading Fluency Assessment using the Grubbs Model. Paper presented at the annual meeting of the National Council on Measurement in Education, Toronto, Canada, April 2019. [National]
- Kamata, A., Kara, Y., Patarapichayatham, C., Le, N. (2019). Classification Predictors for Reading Fluency in Oral Reading Fluency Assessment. Poster presented at the annual meeting of the National Council on Measurement in Education, Toronto, Canada, April 2019. [National]
- Usta, G., & Kamata, A. (2019). DIF Analysis for Immigrant Status for the 2015 PISA Science Items. Poster presented at the annual meeting of the National Council on Measurement in Education, Toronto, Canada, April 2019. [National]
- Baker, D. L., Sano, M., Le, N., Collazo, M., & Kamata, A. (2019). The Use of Automated Scoring to Evaluate the In-Depth Vocabulary Knowledge of English Learners. Paper presented at the annual meeting of the American Educational Research Association, Toronto, Canada, April 2019. [National]
- Kamata, A. Liang, X. (2018). A Cautionary Note on Incremental Fit Indices for Structural Equation Models. Poster presented at the annual meeting of the American Educational Research Association, New York, NY, April 2018. [National]
- Kara, Y. & Kamata, A. (2018). Modeling Mediators of Within-Subject Change by Linear Growth Modeling Framework. Paper presented at the annual meeting of the National Council on Measurement in Education, New York, NY, April 2018. [National]
- Kamata, A., Miyazaki, Y., Uekawa, K. (2017). Effect of Measurement Reliability on Pretest-Posttest Design Analysis. Poster presented at the annual meeting of the American Educational Research Association, Washington D.C., November 2017. [National]
- Kamata, A., Lan, P., & Gallegos, E. (2017). Evaluation of covariate selection strategies in propensity score analysis. Paper presented at the annual meeting of the American Educational Research Association, San Antonio, TX, April 2017. [National]
- Kamata, A., Kara, Y., & Potgieter, C. (2017). A Binomial-lognormal Latent Model to Measure Reading Speed. Paper presented at the annual meeting of the National Council on Measurement in Education, San Antonio, TX, April 2017. [National]

- Patarapichayatham, C., & Kamata, A. (2017). Evaluation of Ability Estimates under 2PL Bi-factor Testlet Model. Paper presented at the annual meeting of the National Council on Measurement in Education, San Antonio, TX, April 2017. [National]
- Kara, Y., & Kamata, A. (2017). Bayesian Modeling of Multilevel Item Response Model with Heterogeneous Within-Group Variance. Paper presented at the annual meeting of the National Council on Measurement in Education, San Antonio, TX, April 2017. [National]
- Nese, J. F. T., Kamata, A., Kahn, J. (2017). Predictors of Low Agreement Between Automated Speech Recognition and Human Scores. Paper presented at the annual meeting of the National Council on Measurement in Education, San Antonio, TX, April 2017. [National]
- Kamata, A., Lan, P., & Gallegos, E. (2017). Evaluation of covariate selection strategies in propensity score analysis. Paper presented at the annual meeting of the Texas University Educational Statistics and Psychometrics, Austin, TX, March 2017. [State]
- Kamata, A., Kara, Y., Patarapichayatham, C., & Lan, P. (2016). Evaluation of analysis approaches for two-part mixture models. Paper presented at the annual meeting of the American Educational Research Association, Washington, DC, April 2016. [National]
- Nese, J. F. T., Alonzo, J., & Kamata, A. (2016). Comparing passage length and human vs. speech recognition scoring of oral reading fluency. Paper presented at the annual meeting of the American Educational Research Association, Washington, DC, April 2016. [National]
- Kamata, A. (2015). Developing the next generation of oral reading fluency assessment. Invited presentation at the annual meeting of Florida Educational Research Association, Orland, FL, November, 2015. [State]
- Nese, J. F. T., Kamata, A., Alonzo, J. (2015). Exploring the evidence of speech recognition and shorter passage length in computerized oral reading fluency. Paper presented at the annual meeting of the Society for the Scientific Study of Reading, Kona, HI, July 2015. [National]
- Nese, J. F. T., Kamata, A. (2015). A two-step growth mixture modeling with distributional change over time. Paper presented at the annual meeting of the National Council on Measurement in Education, Chicago, IL, April 2015. [National]
- Jiao, H., Kamata, A., & Xie, C. (2014). A multilevel cross-classified testlet model for complex local item and person clustering in item response data modeling. Invited paper presented at the Advances in Multilevel Modeling for Education Research conference, College Park, MD, November, 2014. [National]
- Kamata, A. (2014). The relationship between factor analytic and item response theory. Invited presentation at the Advances in Research Designs Symposium (TARDIS), Denton, TX, November, 2014. [State]
- Jiao, H., Kamata, A., Van Wie, A., & Luo, Y. (2014). A multilevel testlet model for multiple hierarchical levels of person clustering effects. Paper presented at the annual meeting of the National Council on Measurement in Education, Philadelphia, PA, April 2014. [National]
- Kamata, A., & Patarapichayatham, C. (2013). Effect sizes for testlet effect. Poster presented at the annual convention of American Psychological Association, Honolulu, HI, August, 2013. [National]

- Patarapichayatham, C., Anderson, D., & Kamata, A. (2013). Monitoring mathematics achievement during the middle school transition: An application of latent transition analysis (LTA). Paper presented at the International Conference on Educational Reform, Siem Reap, Cambodia, March 2013. [International]
- Jiao, H., Kamata, A., Van Wie, A., & Luo, Y. (2013). A multilevel testlet model for multiple hierarchical levels of person clustering effects. Paper presented at the annual meeting of National Council on Measurement in Education, San Francisco, CA, April, 2013.
- Patarapichayatham, C., & Kamata, A. (2012). Effects of differential item discriminations between individual-level and cluster-level under multilevel item response theory model. Paper presented at the annual meeting of National Council on Measurement in Education, Vancouver, Canada, April, 2012. [National]
- Park, S., & Kamata, A. (2012). Investigating unexpectedly detected directions in differential item functioning analysis. Paper presented at the annual meeting of National Council on Measurement in Education, Vancouver, Canada, April, 2012. [National]
- Jiao, H., von Davier, M., Kamata, A., & Chen, Y-F. (2011). *A multilevel Rasch mixture testlet model*. Paper presented at the annual meeting of American Educational Research Association, New Orleans, LA, April, 2011. [National]
- Patarapichayatham, C., Kamata, A., & Jiao, H. (2011). *Evaluation of the ability estimates under the bifactor testlet model*. Poster presented at the annual meeting of National Council on Educational Measurement, New Orleans, LA, April, 2011. [National]
- Yurekli, H., & Kamata, A. (2011). *The relationship between parameters from two polytomous item response theory models*. Poster presented at the annual meeting of National Council on Educational Measurement, New Orleans, LA, April, 2011. [National]
- Nese, J., Park, B., Kamata, A., Alonze, J., & Tindal, G. (2011). *The reliability of CBM reading growth estimates for different student groups*. Paper presented at the annual meeting of National Council on Educational Measurement, New Orleans, LA, April, 2011. [National]
- Liu, Q., & Kamata, A. (2010). Item purification in differential item functioning using generalized linear mixed model. Paper presented at the annual meeting of National Council on Measurement in Education, Denver, CO, May 2010. [National]
- Cho, K., Lee, S-J., & Kamata, A. (2010). The effect of testlet variance on Q3 statistics. Paper presented at the annual meeting of National Council on Measurement in Education, Denver, CO, May 2010. [National]
- Jiao, H., Kamata, A., Wang, S., & Jin, Y. (2010). Simultaneous modeling of item and person dependence using multilevel Rasch measurement model. Paper presented at the annual meeting of American Educational Research Association, Denver, CO. May 2010. [National]
- Patarapichayatham, C., Kanjanawasee, S., & C., Kamata, A. (2009). *Cross-level Two-way Differential Item Functioning Analysis Model by the Multilevel Rasch Modeling: Investigation of Parameter Estimates*. Poster presented at the annual meeting of Florida Educational Research Association, Orlando, FL, November, 2009. [State]
- Kamata, A., Kim, R-S., Bilir, M. K., (2009). Investigation of the utility of the Bayesian mixture-item DIF detection model. Paper presented at the annual meeting of National Council on Measurement in Education, San Diego, CA, April 2009. [National]

- Bilir, M. K., & Kamata, A. (2009). Simultaneous estimation of differential item functioning for manifest groups and latent classes. Poster presented at the annual meeting of National Council on Measurement in Education, San Diego, CA, April 2009. [National]
- Hawthorne, H. J., Fukuhara, H., Park, S-W., Kamata, A. (2009). An investigation of differential performance on reading test items for English language learners. Paper presented at the annual meeting of American Educational Research Association, San Diego, CA, April 2009. [National]
- Vaughn, B. K., Cheong, Y. F., & Kamata, A. (2008). *An investigation on the utility of the 3-level hierarchical generalized linear model for DIF detection*. Paper presented at the annual meeting of National Council on Measurement in Education, New York, March 2008. [National]
- Fukuhara, H., & Kamata, A. (2008). *A testlet response theory DIF detection model: A Bayesian approach*. Paper presented at the annual meeting of National Council on Measurement in Education, New York, March 2008. [National]
- Kamata, A., Cheong, Y. F. (2007). *Multilevel Rasch models*. Paper presented at the annual meeting of National Council on Measurement in Education, Chicago, IL, April 2007. [National]
- Vaughn, B. K., Kamata, A. (2007). *A Bayesian hierarchical, generalized linear model of random differential item functioning for polytomous items*. Paper presented at the annual meeting of American Educational Research Association, Chicago, IL, April 2007. [National]
- Kamata, A., Bauer, D. J., & Miyazaki, Y. (2007). *Multilevel Measurement Modeling*. Paper presented at the annual meeting of American Educational Research Association, Chicago, IL, April 2007. [National]
- Cheong, Y. F., & Kamata, A. (2007). *A comparison of three DIF detection procedures using hierarchical generalized linear and nonlinear mixed models*. Paper presented at the annual meeting of American Educational Research Association, Chicago, CA, April 2007. [National]
- Kamata, A., & Bauer, D. J. (2007). A note on the relationship between factor analytic and item response theory models. Paper presented at the annual meeting of Florida Educational Research Association, Tampa, FL, November, 2007. [State]
- Park, S., Shin, I., & Kamata, A. (2007). *Growth model for two parallel processes: Examining the relationship between FCAT math and reading developmental scale scores*. Paper presented at the annual meeting of Florida Educational Research Association, Tampa, FL, November, 2007. [State]
- Bilir, M. K., Kim, R., & Kamata, A. (2007). *Utility of Mixture Item Response Theory Models and Multilevel Item Response Theory Models to Capture Heterogeneity of Item Difficulties*. Paper presented at the annual meeting of Florida Educational Research Association, Tampa, FL, November, 2007. [State]
- Fukuhara, H., bilir, K., Park, S., & Kamata, A. (2007). *The effect of content representation for anchor items in IRT equating: A simulation study*. Paper presented at the annual meeting of Florida Educational Research Association, Tampa, FL, November, 2007. [State]
- Chaimongkol, S., Huffer, F. W., Kamata, A. (2006). *New parameterizations of DIF parameters in multilevel logistic regression models: A Bayesian perspective*. Paper presented at the annual meeting of American Educational Research Association, San Francisco, CA, April 2006. [National]

- Jiao, H., Wang, S., Kamata, A., & Miyazaki, Y (2006). *An investigation of local item dependence using multilevel testlet model*. Paper presented at the annual meeting of National Council of Educational Measurement, San Francisco, CA, April 2006. [National]
- Kamata, A. (2005). *Overview of existing approaches for multilevel measurement modeling*. Presentation at the opening workshop of the Statistical and Applied Mathematics Sciences Institute, Research Triangle Park, NC, September 2005. [National]
- Kamata, A. Chaimongkol, S., Genc, E., & Bilir, M. K. (2005). *Random-Effect Differential Item Functioning Across Group Unites by the Hierarchical Generalized Linear Model*. Paper presented at the annual meeting of American Educational Research Association, Montreal, Canada, April 2005. [National]
- Fukuhara, H., Zhang, Y., & Kamata, A. (2005). *Standardized alpha coefficient as an estimate of scale reliability*. Paper presented at the annual meeting of American Educational Research Association, Montreal, Canada, April 2005. [National]
- Binici, S., & Kamata, A. (2005). *Multilevel DIF analysis using hierarchical generalized linear model*. Paper presented at the annual meeting of American Educational Research Association, Montreal, Canada, April 2005. [National]
- Chaimongkol, S., Huffer, F. W., Kamata, A. (2005). *Modeling Differential Item Functioning (DIF) Using Multilevel Logistic Regression Models: A Bayesian Perspective*. Paper presented at the annual International Meeting of the Psychometric Society, Tilburg, Netherlands, July 2005. [International]
- Kamata, A., Tenenbaum, G., Alfano, C., Urena, C., & Hasller, L. (2004). *Some methodological comments from a validation study for a U.S. military scholarship selection model*. Paper presented at the annual meeting of International Military Testing Association, Brussels, Belgium, October, 2004. [International]
- Kamata, A., Fukuhara, H., & Zhang, Y. (2004). *Estimating scale reliability by Cronbach's alpha with standardized variables*. Paper presented at the annual convention of American Psychological Association, Honolulu, HI, July, 2004. [National]
- Kamata, A., Chaimongkol, S., & Genc, E. (2004). *Accommodated Sample in the NAEP Science Data*. Paper presented at the annual meeting of Florida Educational Research Association, Tampa, FL, November, 2004. [State]
- Zhang, Y., Fukuhara, H., & Kamata, A. (2004). *Standardized alpha coefficient under congeneric test conditions*. Paper presented at the annual meeting of Florida Educational Research Association, Tampa, FL, November, 2004. [State]
- Kamata, A., & Binici, S. (2003). *Random Effect DIF Analysis via Hierarchical Generalized Linear Modeling*. Paper presented at the biannual International Meeting of the Psychometric Society, Sardinia, Italy, July 2003. [International]
- Kamata, A., Turhan, A., & Darandari, E. (2003). *Estimating Scale Reliability of Multidimensional Composite Scores*. Paper presented at the annual meeting of American Educational Research Association, Chicago, April 2003. [National]
- Kamata, A. & Tate, R.L. (2003). *Performance of proposed method for the long term equating of a mixed format test*. Paper presented at the annual meeting of National Council on Measurement in Education, Chicago, April 2003. [National]



- Chu, K., & Kamata, A. (2003). *Testing Equating with the presence of DIF*. Paper presented at the annual meeting of American Educational Research Association, Chicago, April 2003. [National]
- Jiao, H. & Kamata, A. (2003). *Modeling Local Item Dependence Using the One-Parameter Hierarchical Generalized Linear Model*. Paper presented at the annual meeting of American Educational Research Association, Chicago, April 2003. [National]
- Abell, N., Ryan, S., & Kamata, A. (2003). *Cross-cultural validation of scales for families infected/affected with HIV/AIDS*. Paper presented at Society for Social Work and Research, Washington, D.C, January 2003. [National]
- Kamata, A. (2002). *Procedures to Perform Item Response Data Analysis by HLM*. Paper presented at the annual meeting of American Educational Research Association, New Orleans, April 2002. [National]
- Capar, N.K. & Kamata, A. (2002). *Increasing the Precision of Subscale Scores by Using Out-of-Scale Information*. Paper presented at the annual meeting of American Educational Research Association, New Orleans, April 2002. [National]
- Tate, R.L., & Kamata, A. (2002). *Performance of proposed method for the long term equating of a mixed format test*. Paper presented at the annual meeting of National Council on Measurement in Education, New Orleans, April 2002. [National]
- Kamata, A., Tenenbaum, G., & Hanin, Y. (2001). *Individual Zone of Optimal Functioning (IZOF): A Probabilistic Conceptualization*. Paper presented at 10<sup>th</sup> World Congress of Sport Psychology, Skiathos, Greece, May 2001. [International]
- Kamata, A., & Bower, B.L. (2001). *Faculty going the distance: Motivations, incentives, and satisfaction in Florida community colleges*. Paper presented at the 19<sup>th</sup> International Conference on Technology and Education, Tallahassee, FL, May, 2001. [International]
- Kamata, A. (2000). *Precision of person ability estimates from one-parameter hierarchical generalized linear logistic model*. Paper presented at the annual meeting of American Educational Research Association, New Orleans, April, 2000. [National]
- Chu, K., & Kamata, A. (2000). *Assessment of non-equivalent group equating methods*. Paper presented at the annual meeting of American Educational Research Association, New Orleans, April, 2000. [National]
- Turhan, A. & Kamata, A. (2000). *Effects of multidimensionality in vertical equating with the application of multiple-group IRT*. Paper presented at the annual meeting of National Council of Educational Measurement, New Orleans, April, 2000. [National]
- Kamata, A. (2000). *Multi-level Latent Regression Analysis by the Hierarchical Linear Generalized Model*. Paper presented at the annual meeting of the Florida Educational Research Association, Tallahassee, FL, November, 2000. [State]
- Delva, J., Mathiesen, S., & Kamata, A. (1999). *Multi-level epidemiological analysis of the association between mental health problems and drug use among mothers in the United States*. Paper presented at the World Congress of Mental Health, Santiago, Chile, September, 1999. [International]
- Mathiesen, S.G., Delva, J., & Kamata, A. (1999). *Multi-level epidemiological analysis of drug use among U.S. Mothers*. Paper presented at the Annual Meeting of CPDD, Acapulco, Mexico, June, 1999. [International]

- Kamata, A. (1999). *Multi-level DIF Analysis by the Hierarchical Linear Generalized Model*. Paper presented at the annual meeting of the Florida Educational Research Association, Deer Field Beach, FL, November, 1999. [State]
- Kamata, A. (1998). *One-Parameter Hierarchical Generalized Linear Logistic Model: An Application of Hierarchical Generalized Linear Model to Item Response Theory*. Paper presented at the Annual Meeting of American Educational Research Association, San Diego, April, 1998. [National]
- Becker, B.J. & Kamata, A. (1994). *Another Look at the Relationship between School Expenditures and Students' Achievement*. Paper presented at the Annual Meeting of American Educational Research Association, New Orleans, April, 1994. [National]

## TEACHING

### **Courses Taught at Southern Methodist University**

PSY 6323 Structural Equation Modeling  
EDU 7324 Advanced Topics in Structural Equation Modeling  
EDU 7311 Quantitative Statistics for Educational Research  
EDU 7312 Intermediate Quantitative Statistics for Educational Research  
EPL 7351 Systematic Inquiry II / Quantitative Inquiry

### **Courses Taught at University of Oregon**

EDLD 610 Structural Equation Model II  
EDLD 661 Item Response Theory I  
EDLD 610 Hierarchical Linear Model II  
EDLD 610 Introductory Statistics  
EDLD 610 Equity and Achievement  
EDLD 610 Measurement & Assessment II  
EDUC 614 Educational Statistics I

### **Courses Taught at Florida State University**

EDF 5400 Basic Descriptive and Inference Statistics Applications  
EDF 5402 Advanced Topics in Analysis of Variance  
EDF 5406 Multivariate Analysis Applications  
EDF 5432 Measurement Theory I  
EDF 5434 Measurement Theory II  
EDF 5435 Theory of Scaling  
EDF 5481 Methods of Educational Research

### **Post-doc Supervision**

1. Xin Qiao (October 2021 – May 2023)
  - Funding Agency: IES, U.S. Department of Education
2. Gozde Sirganci (November 2022 – current)
  - Funded by Southern Methodist University

### **Ph.D. Dissertation Supervision**

18. Anh Thu Le (Spring 2022, SMU, Chair)
  - Utility of the Causal Inference Approach to Mediation Analysis with Binary Outcomes
17. Hao Ma (Fall 2019, SMU, Chair)
  - Evaluation of the Utility of Informative Priors in Bayesian SEM with small samples
16. Andrew Schaper (Spring 2014, UO, Chair)
  - Informative Prior Distributions in Multilevel Linear Growth Models: Demonstrating the Use of Bayesian Updating for Fixed Effects

15. Carl Siebert (Fall 2013, FSU, co-Chair)
  - Differential Item Functioning Identification Strategy for Items with Dichotomous Responses Using Item Information Curve: A Weighted Area Method (WAM)
14. Cheng-Fei Lai (Spring 2012, UO, Chair)
  - Identification of Students in Late Elementary Grades with Reading Difficulties
13. Sangwook Park (Summer 2011, FSU, co-Chair)
  - Factors that Cause an Unexpected Direction of Differential Distractor Functioning
12. Chalie Patarapichayatham (May 2010, Chulalongkorn University, Thailand, co-Chair)
  - Two-way Differential Item Functioning Analysis Using Hierarchical Generalized Linear Model
11. Sharon Koon (Spring 2010, FSU, co-Chair)
  - A Comparison of Methods for Detecting Differential Distractor Functioning
10. Mustafa Kuzey Bilir (Summer 2009, FSU, Chair)
  - Mixture Item Response Theory MIMIC Model: A Simultaneous Estimation of Differential Item Functioning for Manifest Groups and Latent Classes
9. Hirotaka Fukuhara (Spring 2009, FSU, Chair)
  - A Differential Item Functioning Model for Testlet-based Items Using a Bi-factor Multidimensional Item Response Theory Model: A Bayesian Approach
8. Salih Binici (Spring 2007, FSU, Chair)
  - Random-effect Differential Item Functioning via Hierarchical Generalized Linear Model and Generalized Linear Latent Mixed Model: A comparison of estimation methods
7. Brandon Vaughn (Fall 2006, FSU, Chair)
  - A Bayesian approach for detecting DIF and its variation across group units for polytomous response items
6. Burcu Atar (Summer 2006, FSU, Chair)
  - Differential item functioning (DIF) analysis for mixed response data using IRT likelihood-ratio test and multilevel IRT procedures
5. Ahmet Turhan (Spring 2006, FSU, Chair)
  - Multilevel 2PL Item Response Theory Model (IRT) Vertical Equating with the Presence of Differential Item Functioning (DIF)
4. Saengla Chaimongkol (Spring 2005, FSU, co-Chair)
  - Modeling differential item functioning (DIF) using multilevel logistic regression models: A Bayesian perspective
3. Hong Jiao (Spring 2003, FSU, Chair)

- Effects of Model Specification Error in Item Response Theory (IRT) Based Computerized Classification Test Using Sequential Probability Ratio Test
2. Kwang-lee Chu (Spring 2002, FSU, Chair)
    - Non-equivalent Group Test Equating with the Presence of Differential Item Functioning (DIF)
  1. Nilufer K. Capar (Spring 2001, FSU, Chair)
    - Analyzing Multidimensional Response Data Structure Represented by Unidimensional IRT Models

### **Visiting Scholar Supervision**

9. Sarynya Somsong (January 2021 – May 2022)
  - Funding agency: IES, U.S. Department of Education
8. Gonca Usta (July 2018 – June 2019)
  - Funding agency: TUBITAK, Turkey
7. Gozde Sirganci (May 2017 – May 2018)
  - Funding agency: TUBITAK, Turkey
6. Pornwimon Rawanprakhon (October 2015)
  - Funding agency: Mahasarakham University, Thailand
5. Inthaseng Inthalaxa (October 2015)
  - Funding agency: Mahasarakham University, Thailand
4. Yusuf Kara (September 2014 – September 2015)
  - Funding agency: Higher Education Council, Turkey; TUBITAK, Turkey
3. Jirawat Tansakul (June 2014 – December 2014)
  - Funding agency: Higher Education Commission, Thailand
2. Yannapat Seehamongkon (March 2013 – June 2013)
  - Funding agency: Mahasarakham University, Thailand
1. Chalie Patarapichayatham (September 2009 – August 2010)
  - Funding agency: Higher Education Commission, Thailand

## **SERVICE**

### **Southern Methodist University**

#### **University**

- Moody Graduate Council (member, 2020 – current)
- Moody Graduate Council subcommittee for university-level graduate fellowship selections (member, 2021, 2022, 2023)
- ACE Internationalization Committee (member, 2023 – current)
- Graduate Commencement Marshal (2022)
- Course Evaluation Committee (member, 2017-18)
- Colonial Group Faculty Survey Committee (member, 2019-2020)

#### **Simmons School of Education & Human Development**

- Ph.D. Committee (Chair, 2020 – current)
- Simmons Dean's Advisory Council (member, 2022 – current)
- Faculty Search Committee: 21st Century Technology and Education Cluster (member, 2021-2022, 2022-2023)

#### **Department of Education Policy & Leadership**

- Search Committee for faculty positions in Educational Leadership (member, 2013-14, 2021-22, 2022-23)
- Promotion & Tenure committee (member, 2019, 2020, 2022)

#### **Department of Psychology**

- Science Committee (member, 2022-current)
- Search Committee for faculty position in Data Science Cluster (member, 2022)
- Promotion & Tenure committee (member, 2019, 2021, 2022)
- Executive Committee (member, 2015- 17; 2018- 19)
- Search Committee for faculty positions in Health Psychology and Clinical Psychology (member, 2015-16)

### **University of Oregon**

#### **University**

- Off-Campus Scholarship and Grants Committee (member, 2009-2010)

#### **College of Education**

- Tenure & Promotion Committee (Chair, 2009-2010; member, 2010-2011)
- Measurement & Assessment Curriculum Committee (member, 2010-2011)
- Scholarship Committee (member, 2010-2011)
- Quantitative Methods Courses Committee (member, 2009-2011)

#### **Department of Educational Methodology, Policy and Leadership**

- Search Committee for a faculty position in Educational Technology (Chair, 2009-2010)

## Florida State University

### University

- Graduate Policy Committee; Sub-committee for the GPC review of the Demography program (2006)
- University Library Committee (2001-2004)

### College of Education

- Tenure & Promotion Committee (member, 2007)
- Faculty Council (chair-elect, 2004; chair, 2005)
- Evaluation Committee (member, 2000)
- Curriculum Committee (alternate member, 2000)

### Department of Educational Psychology & Learning Systems

- Search Committee for an open-rank faculty position in Measurement & Statistics (chair, 2003)
- Search Committee for two assistant professor faculty positions in Measurement & Statistics (member, 2005, 2006)
- Search Committee for a faculty position in Program Evaluation (member, 1999, 2000)
- Annual Evaluation Committee (member, 1999, 2000, 2003, 2004; Chair 2006)
- Ad hoc committee for graduate student recruiting (1999, 2000)
- Ad hoc committee for computing facilities for Measurement & Statistics students (1999, 2000)

## The Profession

### Refereed Journal Editing

Associate Editor (2014 – 2016). *American Educational Research Journal*.

### Guest Editing for Refereed Journal

Beretvas, S. N. & Kamata, A. (2005). Multilevel Measurement Modeling (Special issue). *Journal of Applied Measurement*, 3.

### Editorial Board Membership

Editorial Board Member (2004-2006). *Psychological Methods*.

### Guest Reviewer for Refereed Journals

- Psychological Methods
- Psychometrika
- Journal of Educational Measurement
- Applied Psychological Measurement

- Structural Equation Modeling
- Applied Measurement in Education
- Educational and Psychological Measurement
- Journal of Experimental Education
- Journal of American Statistical Association
- International Journal of Sports Psychology
- Behaviour Research and Therapy

### **Service to Professional Associations**

- **Texas Universities Educational Statistics and Psychometrics (TUESAP)**; I was the organizer for the 7<sup>th</sup> Annual Conference of TUESAP (2019). The conference was held on SMU campus (Feb. 28 – March 1, 2019).
- **National Council on Measurement in Education (NCME)**; Chair of the Training and Development Committee (2008-2009)
- **Florida Educational Research Association** (President-elect, 2006-2007; President, 2007-2008)
- Organizing Committee (member); 2007 International Meeting of **Psychometric Society**.
- Treasurer, **Florida Educational Research Association** (2003, 2004, 2005).
- Distinguished Paper Award Committee (Chair); The Annual Meeting of **Florida Educational Research Association**, 2001.
- Local Arrange Committee (member); The Annual Meeting of **Florida Educational Research Association**, 2000.
- Invited Panelist for Graduate Student Session at the Annual Meeting of **American Educational Research Association** (Division D); New Orleans, 2000.

### **External Reviewer for Tenure & Promotion Cases**

<u>Year</u>	<u>Institution</u>
2022	Ohio State University Georgia State University
2021	Purdue University Baylor University
2020	Texas A&M University University of Illinois at Chicago University of South Florida
2017	University of Nebraska, Lincoln University of Central Florida



2015	University of Texas, San Antonio
2014	Purdue University
2013	University of Minnesota
2012	University of Texas, San Antonio University of Illinois, Chicago
2011	Michigan State University Virginia Tech University University of South Florida University of Central Florida
2009	Kent State University

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## Consultation

### Consultations

- **Florida Department of Education:** Member of the Technical Advisory Committee for FSA. (FSA is a statewide testing program in Florida to replace former statewide testing program FCAT.) (2014 – current)
- **WIDA Consortium:** Member of the Technical Advisory Committee for ACCESS for ELL<sup>®</sup>. (ACCESS for ELL<sup>®</sup> is a test for English language learners used in 37 states as a statewide assessment of English proficiency for ELL students. Statewide assessment of English proficiency for ELL students is a federal requirement for all states as a result of No Child Left Behind Act) (2006 – current)
- **Florida Certification Board:** Psychometric consultant (2005 – current)
- **Michigan Department of Education:** Member for Michigan Assessment Research Committee (2006 – 2008)
- **National Institute for Statistical Sciences (NISS):** Task force for increasing U.S. participation rates in international assessments (2004 – 2005)
- **Professional Associates;** Technical consultant (2004)
- **Florida Educational Research Council, Inc.;** Advisor (1999 – 2004)
- **Florida Department of Juvenile Justice;** Technical consultant (2000)