#### CURRICULUM VITA

#### Akihito Kamata

#### **GENERAL INFORMATION**

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## **Professional Preparation**

Sept. 1991 to Ph.D., Michigan State University, East Lansing, MI. Aug. 1998 Major: Measurement and Quantitative Methods.

Dissertation: Some generalizations of the Rasch model by the hierarchical

generalized linear model.

Sept. 1989 to M.S., Eastern Washington University, Cheney, WA.

Dec. 1990 Major: Experimental Psychology.

April 1984 to B.Ed., University of Yamanashi, Kofu, Japan. March 1988 Major: Elementary Education and Psychology.

## **Sabbatical-equivalent Study**

Jan. 2005 to Statistical and Applied Mathematical Sciences Institute (SAMSI),

May 2005 Research Triangle Park, NC.

I participated their Social Science Program as the New Researcher Fellow (see the Fellowship section below) and lead a work group and collaborated with

other scholars at the Institute.

## **Professional Experience**

March 2015 – Executive Director – Center on Research and Evaluation, Simmons School

of Education & Human Development, Southern Methodist University.

Aug. 2013 – **Professor** – Department of Education Policy & Leadership, Simmons School

of Education & Human Development; Department of Psychology, Dedman College of Humanities & Sciences; Center on Research and Evaluation, Simmons School of Education and Human Development, **Southern** 

**Methodist University.** 

Sept. 2011 to Aug. 2013	<b>Department Head</b> –Department of Educational Methodology, Policy and Leadership, <b>University of Oregon</b> .
Sept. 2009 to Aug. 2013	<b>Professor</b> –Department of Educational Methodology, Policy and Leadership, University of Oregon.
May. 2007 to Aug. 2009	<b>Department Chair</b> –Department of Educational Psychology & Learning Systems, <b>Florida State University</b> .
Aug. 2004 to Aug. 2009	Associate Professor – Measurement & Statistics Program, Department of Educational Psychology & Learning Systems, College of Education, Florida State University.
Aug. 1998 to Aug. 2004	Assistant Professor – Measurement & Statistics Program, Department of Educational Psychology & Learning Systems (formerly Department of Educational Research), College of Education, Florida State University.

# **Visiting Professorship**

Jan. 2005 to	Visiting Research Associate Professor, Department of Psychology,
June 2005	University of North Carolina at Chapel Hill. I engaged in research activities
	with faculty members in the Thurstone Psychometric Laboratory in the
	Department of Psychology.

## **Fellowship**

**Statistical and Applied Mathematical Sciences Institute** (SAMSI), Research Triangle Park, North Carolina. I was selected as the only Fellow for the 2004-05 Social Science Program. (September 2004)

# **Membership in Professional Organizations**

- American Educational Research Association
- National Council of Educational Measurement
- Psychometric Society

#### **SCHOLARLY ACTIVITIES**

#### **Publications**

### **Refereed Journal Articles**

- 40. Jouriles, E. N., & Kamata, A. (in press). Advancing measurement of intimate partner violence. *Psychology of Violence*.
- 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., Kamarta, 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.

#### **Books**

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

#### **Book Chapters**

- 7. 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.
- 6. 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). Champain, IL: Human Kinetics.
- 5. 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). Champain, IL: Human

Kinetics.

- 4. 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.
- 3. 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.
- 2. 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.
- 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.

## **Non-Refereed Publications Completed**

- Kamata, A. (2007). Effects of FCAT test items on students with disabilities and English language learners. Florida Department of Education, August 2007 (Award Number: 371-90950-7R002).
- Kamata, A. & Genc, E. (2005). A study of DIF for students with testing accommodations and its random effect for some NAEP science and mathematics assessment items. Institute of Education Sciences, U.S. Department of Education (Award # R902B030025).
- Hassler, L., Kamata, A., Tenenbaum, G., Urena, C., & Alfano, C. (2004). *NROTC Scholarship Selection Model: Overview and Evaluation Report*. Naval Education and Training Command. (Award # N00140-02-Q-3342).
- Tate, R. L., & Kamata, A. (1999). *Recommendations for the Future of FCAT*, Florida Department of Education, October, 1999 (Award # 371-90950-90004).

#### **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. & Binici, S. (2009). *IRT Test Equating and Linking*. One-day invited workshop for the DFG Summer Academy, Bamberg, Germany, August 2009. [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. (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]

#### **Refereed Presentations**

- 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 mixtureitem 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]

#### **Contracts and Grants**

## **Contracts and Grants Funded**

- 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** (August 2014 July 2018). Total award **\$1.6M** (Sub-award to SMU **\$372,781**).
- Kamata, A. Examining the validity of curriculum-based standardized learning and assessment system. Funded by **Istation** (September 2014 August 2017). Total award **\$487,323**.

- Kamata, A. Evaluation of the performance of bi-factor model in testlet based computer adaptive reading test. (March 2009 February 2012; Total award \$103,511) This is a subcontract to 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.
- Kamata, A. Differential Item Functioning Analyses for Students with Test Accommodations on NAEP test items. Funded by **Institute of Educational Science U.S. Department of Education** (July 2003 May 2005; Award Number: R902B030025). Total award \$95,163.
- Kamata, A. Effects of FCAT test items on students with disabilities ad English language learners. Funded by **Florida Department of Education** (Oct. 1, 2006 Aug. 31, 2007; Award Number: 371-90950-7R002). Total award **\$45,000**.
- Hassler, L., Tenenbaum, G., & Kamata, A. NROTC Scholarship Selection Model Evaluation and Revision. Funded by **Naval Educational and Training Command** (Oct. 2002 December 2003; Award Number: N00140-02-Q-3342). Total award **\$1,700,000**.
- Tate, R. & Kamata, A. A Study of Tasks Related to the Florida Comprehensive Achievement Test. Funded by **Florida Department of Education** (May 1999 Aug. 1999; Award Number: 371-90950-90004). Total award **\$21,952**.
- Kamata, A. Professional Service Related to Student Assessment. Funded by **Leon County School Board** (July 2002 June 2008). Total award **\$162,150**.
- Kamata, A. Tasks Associated with Large Scale Assessment Programs. Funded by **Florida Department of Education** (Aug. 2008 Aug. 2009; Award Number: 371-90950-9R001).

  Total award \$80,000.
- Kamata, A. Tasks Associated with Large Scale Assessment Programs. Funded by **Florida Department of Education** (Aug. 2007 Aug. 2008; Award Number: 371-90950-8R001).

  Total award \$80,000.
- Kamata, A. Tasks Associated with Large Scale Assessment Programs. Funded by **Florida Department of Education** (Aug. 2006 Aug. 2007; Award Number: 371-90950-7R002).

  Total award \$75,000.
- Kamata, A. Tasks Associated with Large Scale Assessment Programs. Funded by **Florida Department of Education** (Sept. 2005 Oct. 2006; Award Number: 371-90950-6R001).

  Total award \$74,976.
- Kamata, A. Tasks Related to Florida Comprehensive Achievement Test. Funded by **Florida Department of Education** (Sept. 2004 July; Award Number: 371-90950-5R003). Total award **\$43,156**.

#### **TEACHING**

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

PSY 6323 Structural Equation Modeling

# **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

### **Doctoral Dissertation Supervision**

- 16. Andrew Schaper (Spring 2014, 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

#### **SERVICE**

#### Southern Methodist University

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

• Search Committee for faculty positions in Educational Leadership (member, 2013-14)

## **Department of Psychology**

- Executive Committee (member, 2015- )
- 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**

- Measurement & Assessment Curriculum Committee (member, 2010-2011)
- Scholarship Committee (member, 2010-2011)
- Faculty Personnel Committee (Chair, 2009-2010; 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 - 2015). 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**

- 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.

## Consultation

# **Consultation**

- **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®. (ACCESS for ELL® is a test for English language learners used in 17 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)