

## Curriculum Vitae

### Minsoo Kang

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## I. EDUCATION AND EXPERIENCE

### A. Educational Background

- 2000-2004 University of Illinois at Urbana-Champaign, IL, **Ph.D.**  
Measurement & Evaluation in Kinesiology
- 1995-1997 Seoul National University, Seoul, Korea, **M.A.**  
Measurement & Evaluation in Physical Education
- 1991-1995 Seoul National University, Seoul, Korea, **B.A.**  
Physical Education

### B. Academic Positions

- 2009-present Associate Professor (**tenured** in 2009) – Department of Health and Human Performance, Middle Tennessee State University
- 2008-present Ph.D. Kinesmetrics Program Coordinator – Department of Health and Human Performance, Middle Tennessee State University
- 2004-2009 Assistant Professor – Department of Health and Human Performance, Middle Tennessee State University
- 2002-2004 Teaching Assistant – Department of Community Health, University of Illinois at Urbana-Champaign
- 2001-2004 Teaching Assistant – Department of Kinesiology, University of Illinois at Urbana-Champaign
- 2000-2004 Research Assistant – Kinesmetrics Lab, Department of Kinesiology, University of Illinois at Urbana-Champaign

1997-1999 Public Interest Service Personnel (as a part of military service) – Emergency Room, Seoul Veterans Hospital in Korea

1995-1997 Teaching Assistant – Department of Physical Education, Seoul National University

### **C. Membership in Professional and Community Activities**

American Alliance for Health, Physical Education, Recreation and Dance (AAHPERD)

American Association for Physical Active and Recreation (AAPAR), AAHPERD

American College of Sports Medicine (ACSM)

American Educational Research Association (AERA)

International Society for Physical Activity and Health

Korean Society for Measurement and Evaluation in Physical Education and Sports Science

Measurement and Research Methodology Division, AERA

National Council on Measurement in Education

Rasch Measurement Special Interest Group, AERA

Research Consortium, AAHPERD

### **D. Awards/Honors**

2011 "Fellow," ACSM

2010 Research Consortium's 2010 Research Writing Award, *Research Quarterly for Exercise and Sport*

2009 Reviewer of the Year Award, *Measurement in Physical Education and Exercise Science*

2009 Kenneth L. Knight Award for the Outstanding Research Manuscript, *Journal of Athletic Training*

2007 "Fellow," the Research Consortium, AAHPERD

2004 University of Illinois Robert Sprague Thesis Award, Department of Kinesiology, University of Illinois at Urbana-Champaign

## **E. Program Developed**

Sharp, E. B., & **Kang, M.** (2010). *Excel Program for Meta-Analysis Calculations* (Version 1.0) [Computer software]. Murfreesboro, Tennessee.

**Kang, M.**, & Park, J. H. (2006). *Covariate Adaptive Randomization Program* (Version 1.0) [Computer software]. Murfreesboro, Tennessee.

**Kang, M.**, Owusu, A., & Park, J. H. (2005). *An Energy Balance Automatic Scoring (EBAS) Program* (Version 1.0) [Computer software]. Murfreesboro, Tennessee.

**Kang, M.**, & Park, J. H. (2004). *An Energy Expenditure Automatic Scoring (EEAS) Program* (Version 1.0) [Computer software]. Urbana, Illinois.

## **F. Statistical/Software Package Proficiency**

SAS – Statistical analyses

SPSS – Statistical analyses

R – Statistical analyses

SPSS Amos – Structural equation modeling and/or Factor analyses

LISREL/PRELIS – Structural equation modeling/Factor analyses

SPSS Answer Tree – Classification algorithms [Data Mining]

WEKA – Association rule analyses [Data Mining]

Comprehensive Meta Analysis – Meta-analyses

CODA – Compositional data analyses

Bilog-MG – Item response theory

HLM – Hierarchical linear modeling

Facets – Rasch Modeling

WINSTEPS – Two-facets Rasch Modeling

GENOVA – Generalizability theory analyses

ITEMAN – Item analyses based on Classical test theory

nQuery Advisor – Power analysis

## II. RESEARCH: PUBLICATIONS

### A. Thesis/Dissertation Title

**Kang, M.** (2004). An empirical investigation of characteristics of children's physical activity recall, University of Illinois at Urbana-Champaign, Urbana, IL.

**Kang, M.** (1997). A study on establishment of the criterion-referenced standards for upper-arm endurance test, Seoul National University, Seoul, Korea.

### B. Book Contributions

**Kang, M., & Zhu, W.** (in review). Setting performance standards. In W. Zhu (Ed.), *Principles and practices of alternative assessment for physical education*. Champaign, IL: Sagamore Publishing.

Owusu, A., Hoag, A., Weatherby, N. L., & **Kang, M.** (2012). The association of perceived parental understanding with bullying among adolescents in Ghana, West-Africa. In S. R. Jimerson, A. B. Nikerson, M. J. Mayer, & M. J. Furlong (Eds.), *The Handbook of School Violence and School Safety: International Research and Practice* (2nd ed.; pp. 175-189). New York, NY: Routledge.

Brinthaup, T. M., McKee, S. L., & **Kang, M.** (2011). Relationships of body fat, gender, and ethnicity to the body image perceptions of preadolescent children. In J. Bienertová-Vaškù (Ed.), *Body fat: Composition, measurements, and reduction procedures* (pp. 97-111). Hauppauge, NY: Nova Science Publishers, Inc.

**Kang, S. J., Park, J. H., & Kang, M.** (2010). *Research Method in Kinesiology* (2nd ed.). Seoul, Korea: 21c Publishers.

**Kang, M.** (2010). Test package development. In J. R. Morrow, A. W. Jackson, J. G. Disch, & D. P. Mood (Ed.), *Measurement and evaluation in human performance* (4th ed). Champaign, IL: Human Kinetics Publisher.

### C. Refereed Journal Articles Published (46 [2 in press] articles)

\* indicates a paper written in Korean

**Kang, M., Basset, D. R., Tudor-Locke, C., Barreira, T. V., & Ainsworth, B.** (in press). Measurement effects of seasonal and monthly variability on pedometer-determined data. *Journal of Physical Activity & Health*,

Alstot, A. E., **Kang, M., & Alstot, C. D.** (in press). The effects of interventions based in behavior analysis on motor skill: A meta-analysis. *The Physical Educator*,

- Ishikawa, S., Stevens, S. L., **Kang, M.**, & Morgan, D. W. (2011). Reliability of daily step activity monitoring in adults with incomplete spinal cord injury. *Journal of Rehabilitation Research and Development*, 48(10), 1187-1194.
- Owusu, A., Hart, P. D., Oliver, B., & **Kang, M.** (2011). The association between bullying and psychological health among senior high school students in Ghana, West-Africa. *Journal of School Health*, 81(5), 231-238.
- Herrmann, S. D., Snook, E. M., **Kang, M.**, Scott, C. B., Mack, M. G., Dompier, T. P., & Ragan, B. G. (2011). Development and validation of a movement and activity in physical space (MAPS) score as a functional outcome measure. *Archives of Physical Medicine and Rehabilitation*, 92, 1652-1658.
- Holbrook, E. A., Stevens, S. L., **Kang, M.**, & Morgan, D. W. (2011). Validation of a talking pedometer for adults with visual impairment. *Medicine and Science in Sports and Exercise*, 43(6), 1094-1099.
- Anshel, M. H., **Kang, M.**, & Brinthaup, T. M. (2010). A values-based approach for changing exercise and dietary habits: An action study. *International Journal of Sport and Exercise Psychology*, 8, 413-432.
- Anshel, M. H., Brinthaup, T. M., & **Kang, M.** (2010). The disconnected values model improves mental well-being and fitness in an employee wellness program. *Behavioral Medicine*, 36(4), 113-122.
- Hart, P. D., Barreira, T. A., & **Kang, M.** (2010). Correlates and predictors of physical inactivity among Tennessee adults. *Tennessee Medicine*, 103(9), 41-44.
- Anshel, M. H., **Kang, M.**, & Miesner, M. (2010). The approach-avoidance framework for identifying athletes' coping style as a function of gender and race. *Scandinavian Journal of Psychology*, 51, 341-349.
- Brinthaup, T. M., **Kang, M.**, & Anshel, M. H. (2010). A delivery model for overcoming psycho-behavioral barriers to exercise. *Psychology of Sport & Exercise*, 11, 259-266.
- Martinez, J. M., Stinson, J. L., **Kang, M.**, & Jubenville, C. B. (2010). Intercollegiate athletics and institutional fundraising: A meta-analysis. *Sport Marketing Quarterly*, 19(1), 36-47.
- Barreira, T. V., Rowe, D. A., & **Kang, M.** (2010). Parameters of walking and jogging in healthy young adults. *International Journal of Exercise Science*, 3(1), 4-13.
- Ragan, B. G., Herrmann, S. D., **Kang, M.**, & Mack, M. G. (2009). Psychometric evaluation of the Standardized Assessment of Concussion: Evaluation of baseline score validity using item analysis. *Athletic Training & Sports Health Care*, 1(4), 180-187.
- Kang, M.**, Bassett, D. R., Tudor-Locke, C., Barreira, T. V., Ainsworth, B., Reis, J. P., Strath, S., & Swartz, A. (2009). How many days are enough? A study of 365 days of pedometer monitoring. *Research Quarterly for Exercise and Sport*, 80(3), 445-453. (*Selected as Research Consortium's 2010 Research Writing Award*).

- Kang, M.**, Marshall, S. J., Barreira, T. V., & Lee, J. O. (2009). Effect of pedometer-based physical activity interventions: A meta-analysis. *Research Quarterly for Exercise and Sport*, 80(3), 648-655.
- Aquadro, M. A., Cunningham, P. H., **Kang, M.**, & Slaughter-Ellis, C. (2009). Effect of a leisure education intervention on anxiety levels of individuals participating in a smoking cessation program. *American Therapeutic Recreation Association Annual*, 18, 53-65.
- Kang, M.**, Rowe, D. A., Barreira, T. V., Robinson, T. S., & Mahar, M. T. (2009). Individual information-centered approach for handling physical activity missing data. *Research Quarterly for Exercise and Sport*, 80(2), 131-137.
- Kang, M.**, & Brinthaup, T. M. (2009). Effects of group- and individual-based step goals on children's physical activity levels in school. *Pediatric Exercise Science*, 21, 148-158.
- Palevo, G., Keteyian, S. J., **Kang, M.**, & Caputo, J. L. (2009). Resistance exercise training improves heart function and physical fitness in stable patients with heart failure. *Journal of Cardiopulmonary Rehabilitation and Prevention*, 29(5), 294-298.
- Holbrook, E. A., Barreira, T. V., & **Kang, M.** (2009). Validity and reliability of Omron pedometers for prescribed and self-paced walking. *Medicine and Science in Sports and Exercise*, 41(3), 669-673.
- \*An, Y. D., Won, Y. D., **Kang, M.**, & Shin, J. H. (2009). Testing a basic assumption for self-report physical activity questionnaire. *Korean Journal of Measurement and Evaluation in Physical Education and Sports Science*, 11(3), 1-12.
- Barreira, T. V., **Kang, M.**, Caputo, J. L., Farley, R. S., & Renfrow, M. S. (2009). Validation of the Actiheart monitor for the measurement of physical activity. *International Journal of Exercise Science*, 2(1), 60-71.
- Anshel, M. H., Weatherby, N. L., **Kang, M.**, & Watson, T. (2009). Rasch calibration of a unidimensional perfectionism inventory for sport. *Psychology of Sport & Exercise*, 10, 210-216.
- Davis, K. L., **Kang, M.**, Boswell, B. B., DuBose, K. D., Altman, S., & Binkley, H. (2008). Validity and reliability of the medicine ball throw for kindergarten children. *Journal of Strength and Conditioning Research*, 22, 1958-1963.
- Tudor-Locke, C., Hatano, Y., Pangrazi, R. P., & **Kang, M.** (2008). Re-visiting "How many steps are enough?" *Medicine and Science in Sports and Exercise*, 40(7), S537-S543.
- Kang, M.**, Ragan, B. G., & Park, J. H. (2008). Issues in outcome research: An overview of randomization techniques for clinical trials. *Journal of Athletic Training*, 43(2), 215-221. *(Selected as the 2008 Outstanding Research Manuscript Award)*.
- Anshel, M. H., & **Kang, M.** (2008). Effectiveness of motivational interviewing on changes in fitness, blood lipids, and exercise adherence of police officers: An outcome-based action study. *Journal of Correctional Health Care*, 14, 48-62.

- Anshel, M. H., & **Kang, M.** (2007). An outcome-based action study on changes in fitness, blood lipids, and exercise adherence, using the disconnected values (intervention) model. *Behavioral Medicine, 33*, 85-100.
- Anshel, M. H., & **Kang, M.** (2007). Effect of an intervention on replacing negative habits with positive routines for improving full engagement at work: A test of the disconnected values model. *Consulting Psychology Journal: Practice and Research, 59*(2), 110-125.
- \*Park, J. H., Kim, H. J., Shin, B. C., Kim, D. Y., & **Kang, M.** (2007). Overview of physical fitness testing among nations. *Korean Journal of Physical Education, 46*(5), 565-580.
- Kang, M.**, Zhu, W., Ragan, B. G., & Frogley, M. (2007). Exercise barrier severity and perseverance of active youth with physical disabilities. *Rehabilitation Psychology, 52*(2), 170-176.
- Ragan, B. G., & **Kang, M.** (2007). Measurement issues in concussion testing. *Athletic Therapy Today, 12*(5), 2-6.
- Lee, J. O., **Kang, M.**, & Shin, J. H. (2007). Effect of interactive pedometer with new algorithm on 10,000 step goal attainments. *Key Engineering Materials, 345-346*, 873-876.
- \*Lee, J. O., Kang, S. J., & **Kang, M.** (2007). Testing basic assumption of direct observation for estimating energy expenditure in walking. *Journal of Korean Physical Education Association for Girls and Women, 21*(2), 31-38.
- \*Lee, J. O., Kang, S. J., & **Kang, M.** (2007). Estimation of hourly physical activity pattern in sedentary working women using pedometer. *Korean Journal of Measurement and Evaluation in Physical Education and Sports Science, 9*(1), 47-59.
- Weatherby, N. L., **Kang, M.**, Shapshak, P., Chiappelli, F., & McCoy, C. B. (2006). Screening women for Human Immunodeficiency Virus (HIV) infection using self-reported symptoms: A classification tree analysis. *Korean Journal of Measurement and Evaluation in Physical Education and Sports Science, 8*(1), 1-17.
- Kang, S. J., & **Kang, M.** (2006). Rasch calibration of perceived weights of different sport games. *Measurement in Physical Education and Exercise Science, 10*, 51-66.
- Kang, M.**, Zhu, W., Tudor-Locke, C., & Ainsworth, B. (2005). Experimental determination of effectiveness of an individual information-centered approach in recovering step-count missing data. *Measurement in Physical Education and Exercise Science, 9*, 233-250.
- Ragan, B. G., & **Kang, M.** (2005). Current issues and concerns of reliability. *Athletic Therapy Today, 10*(6), 35-38.
- Ragan, B. G., & **Kang, M.** (2005). Construction of a classification/decision tree. *Korean Journal of Measurement and Evaluation in Physical Education and Sports Science, 7*(1), 61-75.
- \*Lee, J. O., Kang, S. J., Park, J. H., & **Kang, M.** (2005). The problem of missing value and techniques for handling missing data in sport science research. *Korean Journal of Measurement and Evaluation in Physical Education and Sports Science, 7*(1), 45-59.

- \*Park, J. H., **Kang, M.**, Lee, M., Kim, H. J., & Kang, S. J. (2005). Development of a compendium of physical activities in Korean version and computer software for physical activity records. *Korean Journal of Physical Education*, 44(2), 385-404.
- \*Park, J. H., **Kang, M.**, Lee, J. O., & Kang, S. J. (2005). Handling missing data: What is the most effective method? *Korean Journal of Physical Education*, 44(1), 385-398.
- Kang, M.**, Park, J. H., & Kim, H. J. (2004). An overview of physical activity assessments. *Korean Journal of Measurement and Evaluation in Physical Education and Sports Science*, 6(2), 35-54.
- Kang, M.**, Graber, K. C., & Ragan, B. G. (2003). Future physical educators' perceptions on grading standards: A qualitative analysis. *Korean Journal of Measurement and Evaluation in Physical Education and Sports Science*, 5(1), 17-28.

#### **D. Other Journal Articles Published (4 articles)**

\* indicates a paper written in Korean

- Alstot, A. E., & **Kang, M.** (2010). Effects of behavior analysis interventions on skill acquisition: A meta-analysis. *Research Quarterly for Exercise and Sport*, 81 (Suppl 1), A-xviii-A-xx. *(Selected as the 2010 Research Consortium's Graduate Student Research Award)*.
- Kang, M.**, Holbrook, E. A., & Barreira, T. V. (2009). Validity and reliability of Omron pedometers at slow walking speeds: Response (Letter to the Editor-in-Chief). *Medicine and Science in Sports and Exercise*, 41(9), 1826-1828.
- \*Park, J. H., **Kang, M.**, & Kim, H. J. (2004). Computerized automatic scoring system for physical activity records, logs, and questionnaires. In *2004 International Sport Science Congress* (pp. 609-615). Daejeon, Korea: KAHPERD.
- Kang, M.**, & Zhu, W. (2003). Current issues with missing data methods in physical activity research. *2003 Daegu Universiade Conference Proceedings: Facing the Challenge* (pp. 610-616). Daegu, Korea: 2003 Daegu Universiade Conference Organizing Committee.

### **III. RESEARCH: PRESENTATIONS**

#### **A. Refereed Presentations (123 presentations)**

- Rowe, D. A., **Kang, M.**, Sutherland, R., Holbrook, E. A., Barreira, T. V., & Watson, M. (June, 2012). Evaluation of inactive adults' ability to maintain a moderate-intensity walking pace. Paper to be presented at the ACSM national conference, San Francisco, CA.
- Reece, J. D., Kim, Y., & **Kang, M.** (June, 2012). Effects of accumulated short and very short bouts of exercise on cardiovascular fitness: A meta-analysis. Paper to be presented at the ACSM national conference, San Francisco, CA.

- Ishikawa, S., Kim, Y., **Kang, M.**, & Morgan, D. W. (June, 2012). Physical activity, sedentary time, and bone health in younger and older females. Paper to be presented at the ACSM national conference, San Francisco, CA.
- Holbrook, E. A., Reece, J. D., **Kang, M.**, & Morgan, D. W. (June, 2012). Efficacy of the walk for health program: A physical activity intervention for adults with blindness. Paper to be presented at the ACSM national conference, San Francisco, CA.
- Kim, Y., Hart, P. D., Carter, R. M., Haley, J. T., & **Kang, M.** (June, 2012). Growth mixture modeling of screening time among US children. Paper to be presented at the ACSM national conference, San Francisco, CA.
- Kim, Y., Ishikawa, S., Smith, A. R., Reece, J. D., Connors, R. T., Carter, R. M., & **Kang, M.** (June, 2012). Daytime patterns of time spent in sedentary behaviors among US middle-aged adults. Paper to be presented at the ACSM national conference, San Francisco, CA.
- Kim, Y., & **Kang, M.** (Mar, 2012). Comparison of imputation methods in handling step-count missing data. Paper to be presented at the 12th Measurement and Evaluation Symposium: New Approaches in Measuring and Assessing Physical Activity. Boston, MA.
- Murtagh, S., Rowe, D. A., **Kang, M.**, & Barreira, T. V. (Mar, 2012). Missing data replacement in children's and adolescents' physical activity data. Paper to be presented at the 12th Measurement and Evaluation Symposium: New Approaches in Measuring and Assessing Physical Activity. Boston, MA.
- Barreira, T. V., Tudor-Locke, C., **Kang, M.**, Johnson, W., & Katzmarzyk, P. T. (Mar, 2012). Consequences of the attenuation theory for physical activity research. Paper to be presented at the 12th Measurement and Evaluation Symposium: New Approaches in Measuring and Assessing Physical Activity. Boston, MA.
- Renfrow, M. S., Barreira, T. V., Tseh, W., & **Kang, M.** (Mar, 2012). Concurrent validity of 7-site skinfold measurements taken by exercise science students. Paper to be presented at the 12th Measurement and Evaluation Symposium: New Approaches in Measuring and Assessing Physical Activity. Boston, MA.
- Carter, R., Carter, W. C., **Kang, M.**, Kim, Y., Haley, J., & Hart, P. D. (Mar, 2012). Establishing validity of a unidimensional weight stigma scale using Rasch model. Paper to be presented at the 12th Measurement and Evaluation Symposium: New Approaches in Measuring and Assessing Physical Activity. Boston, MA.
- Kang, M.** (Mar, 2012). RC Grant Findings: Establishing a criterion-referenced cutoff score of daily step counts. Paper to be presented at the AAHPERD national conference, Boston, MA.
- Lee, Y. S., Kim, Y., Sharp, E. B., & **Kang, M.** (Mar, 2012). Inter- and intra-rater reliability in a pedagogical content knowledge (PCK) measurement tool. Paper to be presented at the AAHPERD national conference, Boston, MA.

- Kim, Y., Park, I., & **Kang, M.** (Mar, 2012). Physical activity and sedentary behavior trends of US children. Paper to be presented at the AAHPERD national conference, Boston, MA.
- Connors, R. T., & **Kang, M.** (Mar, 2012). Meta-analysis: Effects of resistance exercise on HbA1c in Type-II Diabetics. Paper to be presented at the AAHPERD national conference, Boston, MA. (*Selected as the 2012 Research Consortium's Graduate Student Research Award Finalists*).
- Haley, J. T., Hart, P. D., Kim, Y., **Kang, M.**, & Cater, R. (Nov, 2011). Reliability of the Rockport 1-mile walk test in 5-8 year old children using G-theory and Bland-Altman Limits of Agreement. Paper presented at the Tennessee AAHPERD convention, Murfreesboro, TN.
- Ishikawa, S., Stevens, S. L., **Kang, M.**, & Morgan, D. W. (June, 2011). Reliability of daily step activity monitoring in adults with incomplete spinal cord injury. Paper presented at the International Conference on Spinal Cord Medicine & Rehabilitation, Washington, D. C.
- Kang, M.**, Hart, P. D., & Kim, Y. (May, 2011). Establishing a threshold for the number of missing days using 7-day pedometer data. Paper presented at the 2nd International Conference on Ambulatory Monitoring of Physical Activity and Movement, Glasgow, Scotland.
- Barreira, T. V., **Kang, M.**, Brinthaup, T. M., Owusu, A., Weatherby, N. L., & Hart, P. D. (May, 2011). Quantitative analysis of the 2008 physical activity guidelines for Americans. Paper presented at the ACSM national conference, Denver, CO. *Medicine and Science in Sports and Exercise*, 43(5), 234.
- Underwood, S. A., Heath, G. W., & **Kang, M.** (May, 2011). The Kid Fitness™ school program: Effects on daily physical activity. Paper presented at the ACSM national conference, Denver, CO. *Medicine and Science in Sports and Exercise*, 43(5), 23.
- Holbrook, E. A., Hart, P. D., Rimmer, J., **Kang, M.**, & Morgan, W. D. (May, 2011). Physical activity and metabolic health in adults with visual impairment. Paper presented at the ACSM national conference, Denver, CO. *Medicine and Science in Sports and Exercise*, 43(5), 269.
- Kim, Y., Hart, P. D., & **Kang, M.** (May, 2011). Prevalence of physical inactivity and metabolic syndrome in U.S. adolescents with disabilities. Paper presented at the ACSM national conference, Denver, CO. *Medicine and Science in Sports and Exercise*, 43(5), 371.
- Kim, Y., Hart, P. D., **Kang, M.**, & Park, I. (May, 2011). Rater variability of TGMD-2 children with intellectual disabilities. Paper presented at the ACSM national conference, Denver, CO. *Medicine and Science in Sports and Exercise*, 43(5), 173-174.
- Hart, P. D., Kim, Y. S., Kim, Y., & **Kang, M.** (May, 2011). Recommended levels of physical activity and metabolic syndrome: Comparison of U.S. and Korean adults. Paper presented at the ACSM national conference, Denver, CO. *Medicine and Science in Sports and Exercise*, 43(5), 497.

- Lee, Y. S., Hart, P. D., Kim, Y., & **Kang, M.** (May, 2011). Physical activity, physical education participation, and obesity among US adolescents. Paper presented at the ACSM national conference, Denver, CO. *Medicine and Science in Sports and Exercise*, 43(5), 269.
- Mathis, S., Kim, Y., & **Kang, M.** (May, 2011). Effect of strength training on cycling endurance performance: A meta-analysis. Paper presented at the ACSM national conference, Denver, CO. *Medicine and Science in Sports and Exercise*, 43(5), 582.
- Ishikawa, S., Kim, Y., **Kang, M.**, & Morgan, W. D. (May, 2011). Weight-bearing exercises on bone health in girls and young women during growth: A meta-analysis. Paper presented at the ACSM national conference, Denver, CO. *Medicine and Science in Sports and Exercise*, 43(5), 395.
- Kang, M.**, Hart, P. D., & Barreira, T. V. (Mar, 2011). Physical inactivity time and risk of metabolic syndrome. Paper presented at the AAHPERD national conference, San Diego, CA. *Research Quarterly for Exercise and Sport*, 82 (Suppl 1), 60.
- Kim, S. H., Kang, S. J., **Kang, M.**, & Yang, E. S. (Mar, 2011). Development and validation of obesity risk measurement scale. Paper presented at the AAHPERD national conference, San Diego, CA. *Research Quarterly for Exercise and Sport*, 82 (Suppl 1), 27.
- Holbrook, E. A., Ishikawa, S., **Kang, M.**, & Morgan, D. W. (Mar, 2011). Relationship between body image and body fatness in adults with blindness. Paper presented at the AAHPERD national conference, San Diego, CA. *Research Quarterly for Exercise and Sport*, 82 (Suppl 1), 71.
- Kim, Y., Park, I., Lee, G., & **Kang, M.** (Mar, 2011). Convergent validity of International Physical Activity Questionnaire (IPAQ): Meta-analysis. Paper presented at the AAHPERD national conference, San Diego, CA. *Research Quarterly for Exercise and Sport*, 82 (Suppl 1), 27.
- Kim, Y., Hart, P. D., **Kang, M.**, & Park, I. (Feb, 2011). Reliability estimation of TGMD-2 using G-theory. Paper presented at the SEACSM annual meeting, Greenville, SC.
- Owusu, A., Hart, P. D., Oliver, B., & **Kang M.** (Nov, 2010). Association between bullying and psychological health among senior high school students in Ghana, West-Africa. Paper presented at the American Public Health Association (APHA) annual conference. Denver, CO.
- Kim, Y., Hart, P. D., & **Kang, M.** (Oct, 2010). Relationship between physical inactivity behaviors and obesity among adolescent in Tennessee. Paper presented at the Tennessee AAHPERD convention, Murfreesboro, TN.
- Hart, P. D., Kim, Y., & **Kang, M.** (Oct, 2010). Physical inactivity trends among Tennessee adults (2000-2009). Paper presented at the Tennessee AAHPERD convention, Murfreesboro, TN.
- Lee, Y. S., Hart, P. D., Kim, Y., & **Kang, M.** (Oct, 2010). Trends in participation in physical education among high school students. Paper presented at the Tennessee AAHPERD convention, Murfreesboro, TN.

- Kang, M.**, Barreira, T. V., Holbrook, E. A., & Rowe, D. A. (June, 2010). Effect of different epoch lengths on activity counts using the Actigraph GT1M accelerometer. Paper presented at the ACSM national conference, Baltimore, Maryland. *Medicine and Science in Sports and Exercise*, 42(5), 339-340.
- Herrmann, S. D., Barreira, T. V., **Kang, M.**, & Ainsworth, B. E. (June, 2010). How many hours is enough? Optimal accelerometer wear time to reflect daily physical activity. Paper presented at the ACSM national conference, Baltimore, Maryland. *Medicine and Science in Sports and Exercise*, 42(5), 342.
- Hart, P. D., Barreira, T. V., & **Kang, M.** (June, 2010). Muscle strengthening activities and health-related Quality of Life among U.S. adults. Paper presented at the ACSM national conference, Baltimore, Maryland. *Medicine and Science in Sports and Exercise*, 42(5), 245.
- Hart, P. D., Barreira, T. V., & **Kang, M.** (June, 2010). Accelerometer-determined physical activity and cardiovascular disease risk factors among U.S. adults. Paper presented at the ACSM national conference, Baltimore, Maryland. *Medicine and Science in Sports and Exercise*, 42(5), 177.
- Holbrook, E. A., Stevens, S., Perry, T., **Kang, M.**, & Morgan, D. W. (June, 2010). Influence of environment and mobility aid on talking pedometer accuracy in adults with visual impairment. Paper presented at the ACSM national conference, Baltimore, Maryland. *Medicine and Science in Sports and Exercise*, 42(5), 343-344.
- Kang, M.**, Barreira, T. V., & Hart, P. D. (May, 2010). Exploratory analysis of the 3DPA category functions. Paper presented at the 3rd International Congress on Physical Activity and Public Health, Toronto, Canada.
- Barreira, T. V., Hart, P. D., Holbrook, E. A., & **Kang, M.** (May, 2010). The effect of supervised aerobic exercise on BMI, VO<sub>2</sub>max, and resting blood pressure: A meta-analysis. Paper presented at the 3rd International Congress on Physical Activity and Public Health, Toronto, Canada.
- Hart, P. D., Owusu, A., Barreira, T. V., & **Kang, M.** (May, 2010). Recommended levels of physical activity, tobacco, alcohol, and drug use among adolescents in Ghana. Paper presented at the 3rd International Congress on Physical Activity and Public Health, Toronto, Canada.
- Hart, P. D., & **Kang, M.** (March, 2010). Sociodemographic characteristics of leisure-time physical inactivity among US adults. Paper presented at the AAHPERD national conference, Indianapolis, Indiana. *Research Quarterly for Exercise and Sport*, 81 (Suppl 1), 33.
- Alstot, A. E., & **Kang, M.** (March, 2010). Effects of behavior analysis interventions on skill acquisition: A meta-analysis. Paper presented at the AAHPERD national conference, Indianapolis, Indiana. *Research Quarterly for Exercise and Sport*, 81 (Suppl 1), 39-40. (*Selected as the 2010 Research Consortium's Graduate Student Research Award*).

- Barreira, T. V., Bennett, J. P., Sidman, C., & **Kang, M.** (March, 2010). Validity of pedometers to measure step counts during dance. Paper presented at the AAHPERD national conference, Indianapolis, Indiana. *Research Quarterly for Exercise and Sport*, 81 (Suppl 1), 32.
- Bowles, E. E., & **Kang, M.** (March, 2010). Effect of teaching experiences on pre-service teacher concerns: A meta-analysis. Paper presented at the AAHPERD national conference, Indianapolis, Indiana. *Research Quarterly for Exercise and Sport*, 81 (Suppl 1), 41-42.
- Holbrook, E. A., Barreira, T. V., & **Kang, M.** (March, 2010). Reliably estimating physical activity in adults with visual impairment. Paper presented at the AAHPERD national conference, Indianapolis, Indiana. *Research Quarterly for Exercise and Sport*, 81 (Suppl 1), 33.
- Hart, P. D., Barreira, T. V., & **Kang, M.** (November, 2009). Correlates and predictors of physical inactivity among Tennessee adults. Paper presented at the Tennessee AAHPERD convention, Murfreesboro, TN.
- Barreira, T. V., Rowe, D. A., & **Kang, M.** (November, 2009). Parameters of walking and jogging in healthy young adults. Paper presented at the Tennessee AAHPERD convention, Murfreesboro, TN.
- Anshel, M. H., **Kang, M.**, & Brinthaup, T. M. (August 2009). Disconnected Values Model improves mental well-being and health behavior change. Paper presented in a symposium at the American Psychological Association Convention, Toronto, Ontario, Canada.
- Barreira, T. V., Ragan, B. G., Basset, D. R., Tudor-Locke, C. & **Kang, M.** (May, 2009). Impact of season on step-count reliability: A Generalizability theory approach. Paper presented at the ACSM national conference, Seattle, WA. *Medicine and Science in Sports and Exercise*, 41(5), 352-353.
- Kang, M.**, Basset, D. R., Tudor-Locke, C., Barreira, T. V., & Ainsworth, B. (May, 2009). Effects of seasonal and monthly variability on measurement of pedometer data. Paper presented at the ACSM national conference, Seattle, WA. *Medicine and Science in Sports and Exercise*, 41(5), 353-354.
- Ragan, B. G., Herrmann, S., Scott, C., & **Kang, M.** (May, 2009). Assessing person-environment interaction using the movement and activity in physical space (MAPS) score in orthopedic knee patients. Paper presented at the ACSM national conference, Seattle, WA. *Medicine and Science in Sports and Exercise*, 41(5), 381.
- Barreira, T. V., Holbrook, E. A., & **Kang, M.** (April, 2009). Relationship between objectively measured physical activity and chronic stress level. Paper presented at the AAHPERD national conference, Tampa, Florida. *Research Quarterly for Exercise and Sport*, 80 (Suppl 1), 40.
- Holbrook, E. A., Barreira, T. V., Emison, K., & **Kang, M.** (April, 2009). Assessing the comprehensibility of physical activity intensity cues. Paper presented at the AAHPERD national conference, Tampa, Florida. *Research Quarterly for Exercise and Sport*, 80 (Suppl 1), 40-41.

- Holbrook, E. A., Barreira, T. V., Parson, C. S., & **Kang, M.** (April, 2009). Influence of activity log on a goal-based walking program. Paper presented at the AAHPERD national conference, Tampa, Florida. *Research Quarterly for Exercise and Sport*, 80 (Suppl 1), 41.
- Lee, J. O., Kang, S. J., & **Kang, M.** (April, 2009). Development and validation of a weather-based physical activity index. Paper presented at the AAHPERD national conference, Tampa, Florida. *Research Quarterly for Exercise and Sport*, 80 (Suppl 1), 41-42.
- Kang, M.**, & Brinthaup, T. M. (April, 2009). Effects of school-based pedometer intervention on children's physical activity levels. Paper presented at the AAHPERD national conference, Tampa, Florida. *Research Quarterly for Exercise and Sport*, 80 (Suppl 1), 41.
- Barreira, T. V., Holbrook, E. A., & **Kang, M.** (February, 2009). Validity and reliability evidence of Omron pedometers. Paper presented at the SEACSM Annual Meeting, Birmingham, AL.
- Owusu, A., Alexander, R., Weatherby, N. L., & **Kang, M.** (October, 2008). The effect of parental monitoring on high risk sexual activity among middle school students in four African countries. Paper presented at the American Public Health Association (APHA) annual conference. San Diego, CA.
- Herrmann, S. D., Ragan, B. G., Scott, C. B., Mack, M. G., **Kang, M.**, & Dompier, T. P. (June, 2008). Development and validation of a movement and activity in physical space (MAPS) score as a functional outcome measure. Paper presented at the annual meeting of the NATA Annual Meeting and Clinical Symposia, St. Louis, Missouri. *Journal of Athletic Training*, 43, S75-76.
- Ragan, B. G., **Kang, M.**, Snook, E. M., & Herrmann, S. D. (June, 2008). Validation of Nagi's Disablement Process Model in orthopedic knee patients. Paper presented at the annual meeting of the NATA annual meeting and clinical symposia, St. Louis, Missouri. *Journal of Athletic Training*, 43, S77.
- Kang, M.**, Bassett, D. R., Tudor-Locke, C., & Barreira, T. V. (May, 2008). Validity of habitual physical activity: A study of 365 days of pedometer monitoring. Paper presented at the ACSM national conference, Indianapolis, Indiana. *Medicine and Science in Sports and Exercise*, 40(5), 201.
- Bassett, D. R., **Kang, M.**, Tudor-Locke, C., & Barreira, T. V. (May, 2008). How many days of pedometer monitoring? Consecutive versus random days of data collection. Paper presented at the ACSM national conference, Indianapolis, Indiana. *Medicine and Science in Sports and Exercise*, 40(5), 203.
- Herrmann, S. D., Ragan, B. G., **Kang, M.**, Mack, M. G., & Dompier, T. P. (May, 2008). Validity and reliability of accelerometry as a functional outcome measure in orthopedic surgical knee patients. Paper presented at the ACSM national conference, Indianapolis, Indiana. *Medicine and Science in Sports and Exercise*, 40(5), 483.
- Barreira, T. V., Otto, S., Holbrook, E. A., & **Kang, M.** (May, 2008). Handling children's pedometer missing data: an individual information-centered replacement approach. Paper

- presented at the ACSM national conference, Indianapolis, Indiana. *Medicine and Science in Sports and Exercise*, 40(5), 201.
- Anshel, M. H., Brinthaup, T. M., **Kang, M.**, & Quinn, B. (May, 2008). Effectiveness of the Disconnected Values Model: An action study. Paper presented at the Midwestern Psychological Association's 18<sup>th</sup> annual meeting, Chicago, Illinois. *Midwestern Psychological Association* (p.166).
- Park, J. H., **Kang, M.**, Lee, H., Kim, H., & Kang, S. J. (April, 2008). Development of a computerized dynamic assessment for basketball knowledge. Paper presented at the AAHPERD national conference, Fort Worth, Texas. *Research Quarterly for Exercise and Sport*, 79(Suppl 1), 36.
- Shin, J. H., Won, Y. D., Kang, S. J., & **Kang, M.** (April, 2008). Identifying cardiovascular disease risk factors in middle-aged women. Paper presented at the AAHPERD national conference, Fort Worth, Texas. *Research Quarterly for Exercise and Sport*, 79(Suppl 1), 37.
- Kang, M.**, Rowe, D. A., Barreira, T. V., Robinson, T. S., Kemble, C. D., & Mahar, M. T. (April, 2008). Cross-validation of individual information-centered methods for handling step-count missing data. Paper presented at the AAHPERD national conference, Fort Worth, Texas. *Research Quarterly for Exercise and Sport*, 79(Suppl 1), 34.
- Lee, J. O., Kang, S. J., Ko, Y. S., & **Kang, M.** (April, 2008). Testing basic assumption of direct observation method in walking activity. Paper presented at the AAHPERD national conference, Fort Worth, Texas. *Research Quarterly for Exercise and Sport*, 79(Suppl 1), 36.
- Lee, J. O., Kang, S. J., & **Kang, M.** (April, 2008). Physical activity patterns for middle-aged women using pedometer. Paper presented at the AAHPERD national conference, Fort Worth, Texas. *Research Quarterly for Exercise and Sport*, 79(Suppl 1), 35.
- Barreira, T. V., **Kang, M.**, Davis, K. L., & Binkley, H. (April, 2008). Assessing reliability of medicine ball throw using Generalizability theory. Paper presented at the AAHPERD national conference, Fort Worth, Texas. *Research Quarterly for Exercise and Sport*, 79(Suppl 1), 32.
- Watson, T., Anshel, M., Weatherby, N., & **Kang, M.** (April, 2008). Rasch calibration of a unidimensional perfectionism inventory for sports. Paper presented at the AAHPERD national conference, Fort Worth, Texas. *Research Quarterly for Exercise and Sport*, 79(Suppl 1), 75.
- Barreira, T. V., **Kang, M.**, Rowe, D. A., & Mahar, M. T. (Oct, 2007). Validation of an individual information-centered method for handling accelerometer missing data. Paper presented at the Diversity in Physical Activity and Health: Measurement and Research Issues and Challenges (pp. 15-16). Dallas, Texas: The Cooper institute.
- Kang, M.**, Marshall, S. J., Barreira, T. V., & Lee, J. O. (Oct. 2007). Effect of pedometer-based physical activity intervention: A meta-analysis. Paper presented at the Diversity in Physical

- Activity and Health: Measurement and Research Issues and Challenges (p. 21). Dallas, Texas: The Cooper institute.
- Shin, J. H., An, Y. D., Lee, J. O., & **Kang, M.** (Oct. 2007). Physical activity and eating behaviors of grade school children. Paper presented at the Diversity in Physical Activity and Health: Measurement and Research Issues and Challenges (p. 24). Dallas, Texas: The Cooper institute.
- Davis, K. L., Boswell, B. B., DuBose, K. D., Altman, S., Binkley, H., & **Kang, M.** (Oct. 2007). Validity and reliability of the medicine ball throw for kindergarten children. Paper presented at the Diversity in Physical Activity and Health: Measurement and Research Issues and Challenges (pp. 28-29). Dallas, Texas: The Cooper institute.
- Ericksen, E. S., Park, J. H., **Kang, M.**, & Ragan, B. G. (June, 2007). Computer adaptive memory test maintains decision accuracy, reduces test length. Paper presented at the annual meeting of the National Athletic Trainers' Association annual meeting and clinical symposia, Anaheim, California. *Journal of Athletic Training*, 42, S100. (**Selected as the 2007 NATA Foundation Undergraduate Student Research Award**).
- Owusu, A., **Kang, M.**, Barreira, T. V., & Weatherby, N. L. (May, 2007). Reliability of performance score: Addressing the ideal number of attempts during Triple Jump Competition. Paper presented at the ACSM national conference, New Orleans, Louisiana. *Medicine and Science in Sports and Exercise*, 39(5), 211-212.
- Kang, M.**, Caputo, J. L., Farley, R. S., Barreira, T. V., Bettel, J. M., & Renfrow, M. S. (May, 2007). Validation of the Actiheart monitor in the laboratory setting. Paper presented at the ACSM national conference, New Orleans, Louisiana. *Medicine and Science in Sports and Exercise*, 39(5), 180.
- Bettel, J. M., **Kang, M.**, Caputo, J. L., Farley, R. S., Renfrow, M. S., & Barreira, T. V. (May, 2007). Evidence for convergent validity for the Actiheart monitor in a free-living setting. Paper presented at the ACSM national conference, New Orleans, Louisiana. *Medicine and Science in Sports and Exercise*, 39(5), 177.
- Barreira, T. V., **Kang, M.**, Caputo, J. L., Farley, R. S., Bettel, J. M., & Renfrow, M. S. (May, 2007). Validation of the RT3 monitor to estimate energy expenditure. Paper presented at the ACSM national conference, New Orleans, Louisiana. *Medicine and Science in Sports and Exercise*, 39(5), 181.
- Lee, J. O., Kang, S. J., Ragan, B. G., & **Kang, M.** (March, 2007). Effect of conditional feedback by a pedometer-based algorithm on the amount of physical activity. Paper presented at the AAHPERD national conference, Baltimore, Maryland. *Research Quarterly for Exercise and Sport*, 78(Suppl 1), 43.
- Weaver, A. A., & **Kang, M.** (March, 2007). Development and validation of the scale for leadership potential. Paper presented at the AAHPERD national conference, Baltimore, Maryland. *Research Quarterly for Exercise and Sport*, 78(Suppl 1), 86-87.

- Owusu, A., Weatherby, N. L., Otto, S., & **Kang, M.** (March, 2007). Validation of a classroom response system for use with a health risk assessment survey. Paper presented at the AAHPERD national conference, Baltimore, Maryland. *Research Quarterly for Exercise and Sport*, 78(Suppl 1), 34.
- Lee, J. O., Kang, S. J., **Kang, M.**, & Shin, J. H. (August, 2006). Are Koreans meeting CDC and ACSM physical activity guidelines for public health? *Educating Sport and Exercise Professionals: Current Approaches and Future Tasks*. Paper presented at the 2006 International Sport Science Congress (p. 372), Yongin, Korea: KAHPERD.
- Lee, J. O., Kang, S. J., **Kang, M.**, & Ragan, B. G. (August, 2006). Comparison of self- and systematic- monitoring using pedometer for daily step goal attainment. *Educating Sport and Exercise Professionals: Current Approaches and Future Tasks*. Paper presented at the 2006 International Sport Science Congress (p. 380), Yongin, Korea: KAHPERD.
- Shin, J. H., Lee, J. O., & **Kang, M.** (August, 2006). Physical activity participation in sedentary working women. *Educating Sport and Exercise Professionals: Current Approaches and Future Tasks*. Paper presented at the 2006 International Sport Science Congress (p. 379), Yongin, Korea: KAHPERD.
- Kang, M.**, & Barreira, T. V. (August, 2006). Accuracy of physical activity intensity classifications of the Actiheart monitor. *Educating Sport and Exercise Professionals: Current Approaches and Future Tasks*. Paper presented at the 2006 International Sport Science Congress (p. 378), Yongin, Korea: KAHPERD.
- Moore B. L., Brinthaup, T. M., **Kang, M.**, Wright, C. Gaylon, A., & Fuqua, K. (May, 2006). Body image perceptions and physical fitness in young children. Paper presented at the Association for Psychological Science, 18th annual convention, New York, New York.
- Park, J. H., Kim, H. J., Kang, S. J., & **Kang, M.** (April, 2006). Validation of the AMP331 monitor for assessing energy expenditure of free-living physical activity. Paper presented at the AAHPERD national conference, Salt Lake City, Utah. *Research Quarterly for Exercise and Sport*, 77(Suppl 1), 40.
- Brown, C., Murdock, P. O., & **Kang, M.** (April, 2006). An examination of HIV-related risk/protective factors among African-American adolescents using the ecological risk/protective theory. Paper presented at the AAHPERD national conference, Salt Lake City, Utah.
- Kang, M.**, Owusu, A., Park, J. H., & Weatherby, N. (April, 2006). Developing a computerized energy balance program for assessing physical and nutritional behaviors. Paper presented at the International Congress on Physical Activity and Public Health, Atlanta, Georgia. *International Congress on Physical Activity and Public Health*, (p.89).
- Anshel, M. H., **Kang, M.**, Eveland, B., Otto, S., & Settle, A. (March, 2006). Effect of a psycho-behavioral intervention model on changes in fitness, blood lipids, and exercise adherence: An outcome-based action study. Paper presented at the Society of Behavioral Medicine's 27th annual meeting, San Francisco, California. *Society of Behavioral Medicine*, (p.S158).

- Lee, J. O., Kang, S. J., Park, J. H., & **Kang, M.** (October, 2005). Imputation methods for handling missing data on a small sample size. Paper presented at the Walking for Health: Measurement and Research, Issues and Challenges conference (p. 27). Urbana, Illinois.
- Kang, M.**, Kim, H. J., Song, Y. E., Kang, H. Y., Kim, S. A., & Park, J. H. (August, 2005). Type of days difference in children's physical activity participation during vacation. Paper presented at the International Sport Science Congress, Kangwon, Korea.
- Lee, J. O., **Kang, M.**, Park, J. H., & Kang, S. J. (August, 2005). Review of physical activity interventions using pedometer. Paper presented at the International Sport Science Congress, Kangwon, Korea.
- Lee, J. O., Kang, S. J., Park, J. H., & **Kang, M.** (August, 2005). The problem of missing value and techniques for handling missing data in sport science research. Paper presented at the International Sport Science Congress, Kangwon, Korea.
- Ragan, B. G., Zhu, W., **Kang, M.**, Bell, G. W., & Stumpf, J. (June, 2005). Item Response Theory modeling reveals possible memory test construction problems. Paper presented at the annual meeting of the National Athletic Trainers' Association annual meeting and clinical symposia. Indianapolis, Indiana. *Journal of Athletic Training*, 40, S13-S14.
- McElroy, M. S., Ragan, B. G., Bell, G. W., & **Kang, M.** (June, 2005). Instructions on implementing the modified Angoff method to determine proficiency in athletic training. Paper presented at the annual meeting of the National Athletic Trainers' Association annual meeting and clinical symposia. Indianapolis, Indiana. *Journal of Athletic Training*, 40, S16.
- Kang, M.**, Zhu, W., & Kang, S. J. (June, 2005). Cognitive related characteristics of children's physical activity recall. Paper presented at the ACSM annual meeting, Nashville, Tennessee. *Medicine and Science in Sports and Exercise*, 37(5), 576.
- Park, J. H., **Kang, M.**, & Zhu, W. (April, 2005). Which evidence in validation of physical activity measures. Paper presented at the AAHPERD national conference, Chicago, Illinois. *Research Quarterly for Exercise and Sport*, 76(Suppl 1), 6.
- Kang, M.** (April, 2005). Clinical trials 101: Randomization in clinical trial. Paper presented at the AAHPERD national conference, Chicago, Illinois.
- Kang, M.** (April, 2005). Time-series analysis of physical activity data: An overview. Paper presented at the AAHPERD national conference, Chicago, Illinois.
- Davis, K. L., & **Kang, M.** (March, 2005). Physical education teacher education students' personal beliefs about diversity. Paper presented at the Southern District of the AAHPERD national conference, Little Rock, Arkansas. *Southern District of the American Alliance for Health, Physical Education, Recreation and Dance* (p. 18).
- McElroy, M. S., Ragan, B. G., Bell, G. W., & **Kang, M.** (January, 2005). Instructions on implementing the modified Angoff method to determine proficiency in athletic training education. Paper presented at the Athletic Training Educators' Conference, Montgomery,

- Texas. *Athletic Training Educators' Conference Proceedings*. Champaign, IL: Human Kinetics.
- Kang, M.**, Keylock, K. T., & Zhu, W. (June, 2004). Experimental investigation of accuracy of energy expenditure estimation of a pedometer. Paper presented at the ACSM annual meeting, Indianapolis, Indiana. *Medicine and Science in Sports and Exercise*, 36(5), 31.
- Ragan, B. G., **Kang, M.**, Marquez, T., Bell, G. W., & Zhu, W. (June, 2004). Graphic pain rating scale reliability using generalizability theory. Paper presented at the ACSM annual meeting, Indianapolis, Indiana. *Medicine and Science in Sports and Exercise*, 36(5), 295.
- Kang, M.**, Ragan, B. G., & Zhu, W. (April, 2004). Statistical analysis of spatial behavior. Paper presented at the AAHPERD national conference, New Orleans, Louisiana. *Research Quarterly for Exercise and Sport*, 75(Suppl 1), 125.
- Kang, M.** (April, 2004). Statistical analysis of missing data: An overview. Paper presented at the AAHPERD national conference, New Orleans, Louisiana. *Research Quarterly for Exercise and Sport*, 75(Suppl 1), 127-128.
- Lee, M., Park, C. H., Zhu, W., **Kang, M.**, & Yilmaz, T. T. (April, 2004). Walking space and behaviors of older adults. Paper presented at the AAHPERD national conference, New Orleans, Louisiana. *Research Quarterly for Exercise and Sport*, 75(Suppl 1), 126.
- Kang, S. J., Han, M. K., & **Kang, M.** (April, 2004). Measuring admission-discharge change of functional independence measure using a Rasch rating scale model. Paper presented at the AAHPERD national conference, New Orleans, Louisiana. *Research Quarterly for Exercise and Sport*, 75(Suppl 1), 39.
- Kang, M.** (April, 2004). Principles and practice of missing data analysis. Paper presented at the AAHPERD national conference, New Orleans, Louisiana.
- Kang, M.**, Ragan, B. G., & Zhu, W. (April, 2004). New testing theories and statistical methods for test validation. Paper presented at the AAHPERD national conference, New Orleans, Louisiana.
- McElroy, M. S., Ragan, B. G., Bell, G. W., & **Kang, M.** (March, 2004). Implementing the modified Angoff method in determining proficiency in athletic training clinical Education. Paper presented at the annual meeting of the Great Lakes Athletic Trainers' Association, Chicago, Illinois. *Great Lakes Athletic Trainers Association Conference Proceedings*. Champaign, Illinois: Human Kinetics.
- Kang, M.**, & Zhu, W. (Oct, 2003). Issues and challenges in children's physical activity recall. Paper presented at the 10th Measurement and Evaluation Symposium: Measurement Issues and Challenges in Aging Research. Urbana, Illinois. *Journal of Physical Activity and Health*, 4(Suppl), 23-24.
- Keylock, K. K., **Kang, M.**, & Zhu, W. (Oct, 2003). Validation of the sensewear armband device for assessing energy expenditure. Paper presented at the 10th Measurement and Evaluation

- Symposium: Measurement Issues and Challenges in Aging Research. Urbana, Illinois. *Journal of Physical Activity and Health*, 4(Suppl), 25.
- Kang, S. J., Han, M. K., Chun, H., & Kang, M.** (Oct, 2003). Detecting true changes in patient's functional independence. Paper presented at the 10th Measurement and Evaluation Symposium: Measurement Issues and Challenges in Aging Research. Urbana, Illinois. *Journal of Physical Activity and Health*, 4(Suppl), 12-13.
- Ragan, B. G., Zhu, W., & Kang, M.** (Oct, 2003). Methodological and psychometric concerns of neuropsychological tests of mild traumatic brain injuries. Paper presented at the 10th Measurement and Evaluation Symposium: Measurement Issues and Challenges in Aging Research. Urbana, Illinois. *Journal of Physical Activity and Health*, 4(Suppl), 6-7.
- Kang, M., & Zhu, W.** (Aug, 2003). Current issues with missing data methods in physical activity research. Paper presented at the Daegu Universiade conference, Daegu, Korea.
- Kang, M., & Zhu, W.** (April, 2003). Setting performance standards using the bookmark procedure. Paper presented at the AAHPERD national conference, Philadelphia, Pennsylvania. *Research Quarterly for Exercise and Sport*, 74(Suppl 1), 96.
- Kang, M., Zhu, W., Tudor-Locke, C., & Ainsworth, B. E.** (April, 2003). An experimental determination of the best missing-value recovery method in assessing physical activity using pedometers. Paper presented at the AAHPERD national conference, Philadelphia, Pennsylvania. *Research Quarterly for Exercise and Sport*, 74(Suppl 1), 25.
- Kang, M., Zhu, W., & Ragan, B. G.** (April, 2003). On-line adaptive testing for individual assessment. Paper presented at the AAHPERD national conference, Philadelphia, Pennsylvania.
- Ragan, B. G., Zhu, W., & Kang, M.** (April, 2003). Developing an online pain assessment survey. Paper presented at the AAHPERD national conference, Philadelphia, Pennsylvania.
- Kang, M.** (April, 2003). Multilevel research: Issues, design, and data analysis. Paper presented at the AAHPERD national conference, Philadelphia, Pennsylvania.
- Ragan, B. G., Bell, G. W., & Kang, M.** (January, 2003). Verifying the factorial construct of the clinical affiliation evaluation form. Paper presented at the bi-annual Athletic Training Educators' Conference, Montgomery, Texas. *Athletic Training Educators' Conference Proceedings*. Champaign, Illinois: Human Kinetics.
- Ragan, B. G., Bell, G. W., & Kang, M.** (January, 2003). Calibration of a clinical affiliation evaluation instrument using Rasch scaling model. Paper presented at the bi-annual Athletic Training Educators' Conference, Montgomery, Texas. *Athletic Training Educators' Conference Proceedings*. Champaign, Illinois: Human Kinetics.
- Kang, M., Frogley, M., Zhu, W., & Ragan, B. G.** (May, 2002). Exercise and physical activity barriers of children and youth with physical disabilities. Paper presented at the ACSM annual meeting, St. Louis, Missouri. *Medicine & Science in Sports & Exercise*, 34(5), 167.

- Ragan, B. G., Zhu, W., Frogley, M., **Kang, M.** (May, 2002). Evidence of construct validity for a barrier perception scale. Paper presented at the ACSM annual meeting, St. Louis, Missouri. *Medicine & Science in Sports & Exercise*, 34(5), 38.
- Miyamoto, J., Zhu, W., **Kang, M.**, & Washburn, R. (May, 2002). Accuracy of physical activity intensity classification in non-student, middle-age adults. Paper presented at the ACSM annual meeting, St. Louis, Missouri. *Medicine & Science in Sports & Exercise*, 34(5), 207.
- Zhu, W., Washburn, R., **Kang, M.**, & Miyamoto, J. (May, 2002). Perceptions of physical activity intensity in young adults: A preliminary investigation. Paper presented at the ACSM annual meeting, St. Louis, Missouri. *Medicine & Science in Sports & Exercise*, 34(5), 123.
- Kang, M.**, Zhu, W., & Ragan, B. G. (March, 2002). Finding association rules among outside physical activities in elementary school children. Paper presented at the AAHPERD national convention, San Diego, California. *Research Quarterly for Exercise and Sport*, 73(Suppl 1), 37-38.
- Kang, M.**, Zhu, W., Kurz, K. A., & Liu, Y. (March, 2002). Compositional data analysis of student teachers' time usage in physical education classes. Paper presented at the AAHPERD national convention, San Diego, California. *Research Quarterly for Exercise and Sport*, 73(Suppl 1), 36-37.
- Ragan, B. G., Zhu, W., **Kang, M.**, & Flegel, M. J. (March, 2002). Construction of an ankle injury diagnostic decision tree. Paper presented at the AAHPERD national conference, San Diego, California. *Research Quarterly for Exercise and Sport*, 73(Suppl 1), 38.
- Kang, M.**, & Zhu, W. (March, 2001). Validity of teacher's judgments on students' physical activity level. Paper presented at the AAHPERD national convention, Cincinnati, Ohio. *Research Quarterly for Exercise and Sport*, 72(Suppl 1), 41.

## **B. Invited Presentations (17 presentations)**

- Kang, M.** (June, 2011). Methodological considerations using pedometer to assess physical activity. Invited presentation at the International Distinguished Scholar Lectures, Korea Foundation for the Next Generation Sports Talent at Korea National Sport University, Seoul, Korea.
- Kang, M.** (July, 2010). Conducting meta-analysis: Demonstration of software programs. Invited lecture presented at Eulji University School of Medicine, Seoul, Korea.
- Kang, M.** (June, 2010). Physical activity assessments: Best practice and future direction. Invited lecture presented at Seoul National University, Seoul, Korea.
- Kang, M.** (March, 2010). Panel discussion: Measurement and research in 21<sup>st</sup> century. Invited presentation at the AAHPERD National Conference, Indiana, IN.

- Kang, M.** (Aug, 2009). There is more to physical activity than reliability. Invited presentation at the international conference in honor of Sang-Jo Kang. Seoul Olympic Parktel, Seoul, Korea.
- Kang, M.** (July, 2009). Walking and pedometer. Invited presentation at the State Farm Insurance Companies: Murfreesboro Operations Center. Murfreesboro, Tennessee.
- Kang, M.** (May, 2009). Randomization: What, Why, & How?. Invited presentation at the Korean United States Applied Physiology Society 6<sup>th</sup> annual meeting. Seattle, Washington.
- Kang, M.** (May, 2008). Current research topics in measuring physical activity. Invited lecture presented at Korea National Sport University, Seoul, Korea.
- Kang, M.** (May, 2008). Current research topics in measuring physical activity. Invited lecture presented at Yongin University, Yongin, Korea.
- Kang, M.** (May, 2008). Research synthesis: Meta-analysis. Invited lecture presented at Sangmyung University, Seoul, Korea.
- Kang, M.** (May, 2008). Test construction. Invited lecture presented at Sangmyung University, Seoul, Korea.
- Kang, M.** (May, 2008). Measurement issues in assessing physical activity. Invited lecture presented at Wonkwang University, Iksan, Korea.
- Kang, M.** (May, 2008). Measurement issues in assessing physical activity. Invited lecture presented at Woosuk University, Jeonju, Korea.
- Kang, M.** (February, 2008). Let's take some steps. Invited presentation at the State Farm Employee Wellness Program. Institute of Agriculture: The University of Tennessee, Extension. Murfreesboro, Tennessee.
- Kang, M.** (August, 2006). Measuring agreement among raters: Categorical data. Invited presentation at the Web Conference, "Current Issues and Challenges in Kinesmetrics Series," International Society of Kinesmetrics (using web communication system).
- Kang, M.** (May, 2006). Test validation: Application of Rach model. Invited presentation at the Web Conference, "Current Issues and Challenges in Kinesmetrics Series," International Society of Kinesmetrics (using web communication system).
- Kang, M.** (October, 2005). Measurement issues in steps per day guideline. Invited presentation at the Walking for Health: Measurement and Research, Issues and Challenges Conference. Urbana, Illinois.

#### **IV. RESEARCH: GRANTS/CONTRACTS**

*(Received 19 research grants or contracts [Total=\$151,402])*

**Title:** Psychometric evaluation of the Standardized Assessment of Concussion items in high school student-athletes

**Funding Agency:** MTSU, FRCAC

**Role:** Principal Investigator

**Date:** 11/02/11-11/01/12

**Description:** The purpose of this project is to perform an item analysis of the SAC to examine its validity as a baseline measure in high school student-athletes. These steps are necessary to provide accurate information when making decisions regarding the identification, management, and return-to-play criteria surrounding concussions and mild traumatic brain injuries.

**Amount:** \$4,000

**Title:** Functional Geospatial Mapping following Concussion

**Funding Agency:** National Football League Charities (Ragan, PI)

**Role:** Consultant

**Proposed Date:** 1/01/12-6/30/13

**Description:** The purpose was to develop and validate the integration of geospatial technology and physical activity to assess the person-environment interaction through Movement and Activity in Physical Space (MAPS) scores following concussion.

**Amount:** \$100,000

**Title:** Implementation of geospatial technologies (GPS & GIS) in health and functional measures

**Funding Agency:** National Research Foundation of Korea

**Role:** Co-Investigator

**Date:** Not funded

**Description:** The study will combine existing geospatial (GPS and GIS) and physical activity (accelerometer) technology to create a new outcome measure capable of providing a more comprehensive assessment of a person's functional status within their environment.

**Amount:** \$258,260

**Title:** Test Package for "Measurement and Evaluation in Human Performance (4<sup>th</sup> ed.)"

**Funding Agency:** Human Kinetics, Inc.

**Role:** Contractor

**Date:** 6/14/10-11/30/10

**Description:** The project is to develop test questions, for an ancillary product called a Test Package for "Measurement and Evaluation in Human Performance," fourth edition.

**Amount:** \$750

**Title:** New urbanist public housing and its impact on active living among low income children and youth

**Funding Agency:** MTSU, Center for Physical Activity and Health in Youth

**Role:** Principal Investigator

**Date:** 4/15/10-5/15/11

**Description:** The purpose of the current project proposal is to determine the effect of the built environment on the physical activity patterns of low income urban children and youth.

**Amount:** \$8,989

**Title:** Establishing a criterion-referenced cutoff score of daily step counts

**Funding Agency:** AAHPERD Research Consortium

**Role:** Principal Investigator

**Date:** 4/1/09-5/1/11

**Description:** The purpose of this project is twofold: (1) To establish a criterion-referenced cutoff score of daily step counts for middle-aged adults with respect to the achievement of public health physical activity recommendations as the criterion, and (2) To provide validity evidence to support the criterion-referenced cutoff score.

**Amount:** \$8,352

**Title:** Effect of a faith-based intervention on changes in fitness, dietary habits, blood lipids, and exercise adherence among African American adult males

**Funding Agency:** National Institutes of Health (NIH)

**Role:** Principal Investigator

**Date:** Not funded.

**Description:** The primary purpose of this study is to determine the effect of faith-based wellness interventions by the church's pastor on initiating and adhering to programs that change selected health behaviors of African American adult males.

**Amount:** \$269,262

**Title:** How many days of physical activity measurement are enough? A Generalizability theory approach

**Funding Agency:** MTSU, FRCAC

**Role:** Principal Investigator

**Date:** 9/01/07-10/01/08

**Description:** The purpose of this grant was to identify factors that cause the intra-individual variability in PA using the accelerometer and pedometer and to create a blueprint of many measurement procedures (i.e., number, type, and time of days) needed to achieve both the minimum and desired levels of reliability for accelerometer and pedometer.

**Amount:** \$7,188

**Title:** Development and validation of a Movement and Activity in Physical Space (MAPS) score as a functional outcome measure

**Funding Agency:** NATA's Research & Education Foundation

**Role:** Consultant

**Date:** 8/01/07-7/01/08

**Description:** The purpose of this grant was to develop and validate a Movement and Activity in Physical Space (MAPS) score, which quantifies physical activity and environmental interactions.

**Amount:** \$1,000

**Title:** "Taking Steps!": Development of a pedometer-based physical activity program for schools and museums

**Funding Agency:** MTSU, Center for Physical Activity and Health in Youth

**Role:** Principal Investigator

**Date:** 6/15/07-7/15/08

**Description:** The purpose of this grant was to create a new pedometer-based physical activity program for children in collaboration with the Discovery Center (DC).

**Amount:** \$8,906

**Title:** Accurate measurement of physical activity using accelerometer  
**Funding Agency:** MTSU, Instructional Evaluation and Development Grant  
**Role:** Principal Investigator  
**Date:** 3/27/07-12/30/07

**Description:** The purpose of this grant was to implement equipment and procedures that enable students to learn and practice how to accurately measure physical activity.  
**Amount:** \$4,497

**Title:** Physical activity patterns among children: An analysis using Data Mining  
**Funding Agency:** MTSU, FRCAC  
**Role:** Principal Investigator  
**Date:** 11/27/06-8/30/07

**Description:** The purpose of this grant was to using a data mining technique to find patterns among outside-school physical activities of grade school children.  
**Amount:** \$4,450

**Title:** Healthy Outcomes from Obesity Prevention in Schools (HOOPS)  
**Funding Agency:** NIH  
**Role:** Co-Investigator  
**Date:** Not funded

**Description:** The primary research goal is to reduce the incidence of obesity in the youngest school-aged population, kindergarten children, through a novel school-based intervention model entitled "Healthy Outcomes from Obesity Prevention in Schools (HOOPS)."  
**Amount:** \$218,944

**Title:** A surveillance study of health risk behaviors among high school youths in Ghana  
**Funding Agency:** MTSU, FRCAC  
**Role:** Principal Investigator  
**Date:** 11/27/06-8/30/07

**Description:** The purpose of this grant was using the Global School-Based Health Survey (GSHS) to determine the prevalence of health risk behaviors of 13-15 year old youths across all ten regions of Ghana.  
**Amount:** \$17,610

**Title:** Healthy Outcomes from Obesity Prevention in Schools (HOOPS)  
**Funding Agency:** MTSU, Center for the Advancement of Research and Scholarship  
**Role:** Co-Investigator  
**Date:** 8/1/06-8/30/06

**Description:** The purpose of this grant was to reward and recognize faculty engaged in grant-writing/scholarly activity.  
**Amount:** \$2,500

**Title:** Development and Validation of /Me-B-Tough/ (Mental, Emotional, Bodily, Toughness) Inventory for Physical Activity  
**Funding Agency:** Grow Iowa Values Fund Applied Research Grants  
**Role:** Principal Investigator  
**Date:** Not funded

**Description:** The purpose of this grant was to develop a new tool, called Me-B-Tough, to measure

mental toughness focusing on psychometric (validity and reliability) properties.

**Amount:** \$10,000

**Title:** Validation of accelerometers as a measure of knee dysfunction

**Funding Agency:** NATA's Research & Education Foundation

**Role:** Co-Investigator

**Date:** 3/01/06-2/28/07

**Description:** The purpose of this grant was to validate accelerometers as rehabilitation functional outcome measure.

**Amount:** \$1,000

**Title:** Developing a computerized adaptive randomization program

**Funding Agency:** MTSU, Faculty Research and Creative Activity Grant

**Role:** Principal Investigator

**Date:** 12/6/05-8/30/06

**Description:** The purpose of this grant was to develop a computerized adaptive randomization program in order to better control study design for clinical trial.

**Amount:** \$4,318

**Title:** School-based interventions to prevent obesity

**Funding Agency:** An Interdisciplinary Synergy Award, MTSU, Faculty Research and Creative Activity Grant

**Role:** Principal Investigator

**Date:** 8/1/05-5/30/07

**Description:** The purpose of this grant was to apply a school-based model, a combination of educational and monitoring programs, to decrease childhood obesity rates.

**Amount:** \$38,410

**Title:** Developing a computerized energy balance automatic scoring program

**Funding Agency:** MTSU, Faculty Research and Creative Activity Grant (FRCAC)

**Role:** Principal Investigator

**Date:** 12/1/04-8/30/05

**Description:** The purpose of this grant was to develop a computerized energy balance program for assessing physical and nutritional behaviors.

**Amount:** \$4,031

**Title:** Actiheart validation study

**Funding Agency:** MINI MITTER Research Grant

**Role:** Principal Investigator

**Date:** 10/11/04-10/12/05

**Description:** The purpose of this grant was to validate the newly released Actiheart monitor, which measures heart rate and movement counts for physical activity.

**Amount:** \$3,580

**Title:** Validation of Actiheart monitor for assessing physical activity participation

**Funding Agency:** MTSU, FRCAC

**Role:** Principal Investigator

**Date:** 12/1/04-12/30/05

**Description:** The purpose of this grant was to establish the validity evidence of the Actiheart monitor for assessing physical activity.

**Amount:** \$6,300

**Title:** An empirical investigation of characteristics of children's physical activity recall

**Funding Agency:** University of Illinois Robert Sprague Grant

**Role:** Principal Investigator

**Date:** 4/21/04-4/20/05

**Description:** Using cognitive process model, several critical cognitive factors in self-report survey research were being examined from interpretation, administration, and construction.

**Amount:** \$1,000

**Title:** Psychometric analysis of the ACSM certification examinations

**Funding Agency:** American College of Sport Medicine

**Role:** Psychometric consultant

**Date:** 8/23/02-8/22/04

**Description:** The purpose of this grant is for the quality control of the certification examinations, which including constructing test forms, analyzing the data, and monitoring the psychometric quality of the items and exams on a regular basis.

**Amount:** \$24,521

**Title:** Characteristics of children's recall of physical activity and environment

**Funding Agency:** Robert Wood Johnson Foundation (Role: PI)

**Role:** Principal Investigator

**Date:** Not Funded

**Description:** The purpose of this grant was to investigate cognitive related factors that may influence children's physical activity recall and environment.

**Amount:** \$33,443

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## V. TEACHING

### A. Years at Colleges/Universities

2009-present Associate Professor – Department of Health and Human Performance, MTSU

2004-2009 Assistant Professor – Department of Health and Human Performance, MTSU

2002-2004 Teaching Assistant – Department of Community Health, UIUC

2001-2004 Teaching Assistant – Department of Kinesiology, UIUC

1995-1997 Teaching Assistant – Department of Physical Education, Seoul National University

## **B. Course Taught**

### Undergraduate & Graduate

KINES 301 – Observation and Evaluation in Kinesiology, 2001-2004 at UIUC  
CHLTH 244 – Health Statistics, 2002-2004 at UIUC

### Graduate

KINES 495 – Research Methods in Kinesiology at UIUC  
HHP 6610 – Research Methods in Human Performance at MTSU  
HHP 6700 – Data Analysis and Organization for Human Performance at MTSU  
HHP 7030 – Research Seminar in Human Performance (Meta-analysis) at MTSU  
HHP 7300 – Current Measurement Issues in Human Performance at MTSU  
HHP 7700 – Advanced Data Analysis and Organization for Human Performance at MTSU

## **C. Theses and/or Dissertations Directed or Co-directed**

### Students by Name, Level, Title of Project, Year (role)

Peter Hart, Ph.D.,

Measurement issues in health-related quality of life assessments in physical activity research, ongoing (dissertation committee chair).

Anna Rose Anderson, Ph.D.,

Effect of worksite wellness on physical activity and nutrition. ongoing (dissertation committee member).

Phillip Davis, Ph.D.,

Challenge course facilitator performance analysis, ongoing (dissertation committee member).

Stephen Herrmann, Ph.D.,

Application of methods in physical activity measurement, 2011 (dissertation committee member).

Tiago Barreira, Ph.D.,

Dose-response relationship between exercise and CVD risk factors: A meta-analysis of randomized controlled trials, 2010 (dissertation committee chair).

Elizabeth Holbrook, Ph.D.,

Promoting physical activity in adults with visual impairment, 2010 (dissertation committee member).

Michael Martinez, Ph.D.,

Effect of internal marketing and organizational commitment on financial performance in intercollegiate athletics, 2009 (dissertation committee member).

Bryon Martin, Ph.D.,  
Game-related acutely stressful events and coping strategies of registered interscholastic sport officials, 2009 (dissertation committee member).

Dwedor Weslyne Ford, Ph.D.,  
The effect of the star sportsmanship education module on parents' self-perceived sportsmanship behaviors in youth sport, 2009 (dissertation committee member).

Ahmed Al Sentali, Ph.D.,  
Predicting copying styles as function of internal and external sources of acute stress in sport among skilled male Saudi Arabian college athletes, 2009 (dissertation committee member).

Renata Alexandre, Ph.D.,  
The effect of sense of coherence on perceived health status: The role of life changing events, 2008 (dissertation committee member).

Tiffany Watson, Ph.D.,  
The relationship between perceived competence and perfectionism in sport, 2008 (dissertation committee member).

Robichaud, Karen, Ph.D.,  
The effects of an exercise intervention on the psychological well-being of postnatal women, 2008 (dissertation committee member).

Mary Ann Aquadro, Ph.D.,  
The effect of a leisure education program on anxiety levels of individuals participating in a smoking cessation program, 2008 (dissertation committee member).

Megan, Carey, Ph.D.,  
A test of the health belief model on use of nutritional supplements among high school athletes, 2007 (dissertation committee member).

Dickson, Chris, M.S.,  
The effects of job titles, education levels, and certifications on perceptions of NCAA division II strength and conditioning coach's job satisfaction, 2007 (thesis committee member).

Weaver, Allen, Ph.D.,  
Predictors of leadership self-efficacy and the perceived leadership potential among elite collegiate athletes, 2006 (dissertation committee member).

Palevo, Gregory, Ph.D.,  
Resistance training and patients with heart failure, 2006 (dissertation committee member).

Brown, Charles, Ph.D.,  
Using the ecological risk/protective theory to examine HIV-related risk/protective factors among African-American adolescents, 2005 (dissertation committee member).

Conner, Allyson Renee, M.S.,  
Establishing a norm for undergraduate recreation students' attitudes toward persons with disabilities,  
2005 (thesis committee member).

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## VI. SERVICE

### A. Offices and Committee Memberships Held in Professional Organizations

- 2011-present Member of the Advisory Committee for the *Sports Analyst Education Program*, Korea National Sport University, Ministry of Culture, Sports and Tourism, & Korea Foundation for the Next Generation Sports Talent.
- 2011 Nominee, the Scientific Advisory Committee for the President's Council on Physical Fitness, Sports, and Nutrition
- 2011 Review Panel in Measurement for the *Research Consortium 2012 AAHPERD Convention Program*
- 2011-present Chair, the Organizing Committee for the 12<sup>th</sup> Measurement and Evaluation Symposium: New Approaches in Measuring and Assessing Physical Activity. Boston, MA, March, 2012.
- 2011-present Chair, the Scientific Program Committee for the 12<sup>th</sup> Measurement and Evaluation Symposium: New Approaches in Measuring and Assessing Physical Activity. Boston, MA, March, 2012.
- 2010-present Chair of the Measurement and Evaluation Council, AAHPERD
- 2010-2011 Adjunct Professor (Invited appointment; served as physical activity measurement expert for Ph.D. dissertation), Program in Exercise and Wellness, College of Nursing and Health Innovation, Arizona State University
- 2010-present Chair of the Advisory Committee for the Measurement and Evaluation Council, AAHPERD
- 2010-present Chair of the Executive Committee for the Measurement and Evaluation Council, AAHPERD
- 2010 Review Panel in Measurement for the *Research Consortium 2011 AAHPERD Convention Program*
- 2010 Review Panel in Measurement and Methods Track for the *2011 Society of Behavioral Medicine*

- 2010 Session organizer of the Panel discussion: Measurement and research in 21<sup>st</sup> century. AAHPERD National Conference, Indiana, IN.
- 2009 Chair of the Review Panel in Measurement for the *Research Consortium 2010 AAHPERD Convention Program*
- 2009 Review Panel in Measurement for the *Research Consortium 2010 AAHPERD Convention Program*
- 2009 Review Panel in Measurement and Methods Track for the *2010 Society of Behavioral Medicine*
- 2008-2010 Chair-elect of the Measurement and Evaluation Council, AAHPERD
- 2008-2010 Member of the Executive Committee for the Measurement and Evaluation Council, AAHPERD
- 2008-present Coordinator of the Measurement and Evaluation, Center for Sports Policy and Research
- 2008-2010 Chair of the Nominating Committee for the Measurement and Evaluation Council, AAHPERD
- 2008 Review Panel in Measurement for the *Research Consortium 2009 AAHPERD Convention Program*
- 2008 Review Panel in Measurement and Methods Track for the *2009 Society of Behavioral Medicine*
- 2007 Review Panel in Measurement for the *Research Consortium 2008 AAHPERD Convention Program*
- 2006 Review Panel in Measurement for the *Research Consortium 2007 AAHPERD Convention Program*
- 2003-2006 Member of Advisory Committee for the Measurement and Evaluation Council, AAHPERD

## **B. Editorial Boards**

- 2010-present Editorial Board, *Measurement in Physical Education and Exercise Science*
- 2009-present Section Editor (Physical Activity), *Measurement in Physical Education and Exercise Science*
- 2005-present Editorial Board, *Korean Journal of Measurement and Evaluation in Physical Education and Sports Science (KSME)*

### **C. Journal Reviewer**

- 2011-present *Annals of Behavioral Medicine*
- 2011-present *International Journal of Behavioral Nutrition and Physical Activity*
- 2009-present *International Journal of Sports Medicine*
- 2009-present *Journal of School Health*
- 2008-present *Journal of Athletic Training*
- 2008-present *Annals of Epidemiology*
- 2008-present *Psychology of Sport & Exercise*
- 2008-present *Journal of Sport Administration & Supervision*
- 2006-present *Medicine and Science in Sports and Exercise*
- 2006-present *Journal of Physical Activity and Health*
- 2005-present *Measurement in Physical Education and Exercise Science*
- 2005-present *Korean Journal of Measurement and Evaluation in Physical Education and Sports Science*
- 2004-present *Adapted Physical Activity Quarterly*
- 2003-present *Research Quarterly for Exercise and Sport*

### **D. Consultations**

- 2009-present Director for the Measurement and Statistical Consulting Service from the Kinesmetrics Laboratory, MTSU
- 2008-present Psychometric consultant for the Center for Sports Policy and Research, MTSU
- 2008-present Statistical consultant for the *Journal of Sport Administration & Supervision*
- 2007-2008 Psychometric consultant for the development and validation of a “Movement and Activity in Physical Space (MAPS)” score as a functional outcome measure, NATA
- 2006-2007 Statistical and methodological consultant for “Discovering Healthy Families” program, Discovery Center, Murfreesboro, TN
- 2001-2004 Psychometric consultant for the Certification and Registry Board, ACSM

### **E. University Activities and Committee Work**

- 2010-2011 Member of Chair Search Committee, Department of Health and Human Performance, MTSU
- 2009-2010 Member of Graduate Council, MTSU
- 2009-2010 Member of Recreation & Leisure Services Search Committee, Department of Health and Human Performance, MTSU
- 2009-2010 Member of Physical Education Pedagogy Search Committee, Department of Health and Human Performance, MTSU
- 2008-2009 Chair of Instructional Technologies and Development Committee, MTSU
- 2008-present Member of Graduate Curriculum Committee, Department of Health and Human Performance, MTSU
- 2007-2009 Member of Grade Appeals Committee, College of Education and Behavioral Science, MTSU
- 2007-present Member of Doctoral Faculty, MTSU
- 2007-2009 Member of Instructional Technologies and Development Committee, MTSU
- 2006-present Member of Statistician Network Committee, MTSU
- 2006-2008 Member of Research Committee, College of Education and Behavioral Science, MTSU
- 2005-2007 Member of Instructional Evaluation and Development Committee, MTSU
- 2004-2007 Member of Graduate Faculty, MTSU