

## 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.S.**  
Measurement & Evaluation in Physical Education
- 1991-1995 Seoul National University, Seoul, Korea, **B.A.**  
Physical Education

### B. Academic Positions

- 2021-present MS in Sport Analytics Program Director, Department of Health, Exercise Science, and Recreation Management, The University of Mississippi
- 2018-present Director – Analytics Lab, School of Applied Sciences, The University of Mississippi
- 2018-present Director – Health and Sport Analytics Lab, Department of Health, Exercise Science, and Recreation Management, The University of Mississippi
- 2017-present Chair and Professor (**tenured** in 2017) – Department of Health, Exercise Science, and Recreation Management, The University of Mississippi
- 2017-2018 Graduate Faculty – Department of Health and Human Performance, Middle Tennessee State University

- 2014-2016 Graduate Director – Department of Health and Human Performance, Middle Tennessee State University
- 2014-2017 Professor – Department of Health and Human Performance, Middle Tennessee State University
- 2009-2014 Associate Professor (**tenured** in 2009) – Department of Health and Human Performance, Middle Tennessee State University
- 2008-2017 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 Evaluation Council, AAPAR, AAHPERD
- Measurement and Research Methodology Division, AERA

National Council on Measurement in Education  
North American Federation of Adapted Physical Activity (NAFAPA)  
Rasch Measurement Special Interest Group, AERA  
Research Consortium, AAHPERD  
Society of Health and Physical Educators (SHAPE) America

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

2013 “Distinguished Research Award,” Middle Tennessee State University  
2013 “Measurement & Evaluation Honor Award,” Measurement & Evaluation Council in the AAPAR, AAHPERD  
2013 “Recognition for One of the Top 20 Leading Researchers to the Research Consortium’s Annual Program, 1992-2011, Research Consortium, AAHPERD  
2011 “Nominee,” the Scientific Advisory Committee for the President’s Council on Physical Fitness, Sports, and Nutrition  
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 “Clint Thompson Award for Clinical Advancement,” The 2008 Outstanding Manuscript Award,” *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. (2007). *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

JASP – Classical and Bayesian analyses

Jamovi – Classical and Bayesian analyses

## **G. Certificates**

2021 LeadershipServ's: Excellence in Servant Leadership Program

2020 eLearning Teaching Certificate, Office of Academic Outreach, The University of Mississippi

2020 COVID-19 Contact Tracing Course Certificate, Johns Hopkins University

## 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

Morrow, J. R., Mood, D. P., Zhu, W., & **Kang, M.** (in review). *Measurement and Evaluation in Human Performance* (6th ed). Champaign, IL: Human Kinetics Publisher.

**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.

Jung, M., **Kang, M.**, & Loprinzi, P.D. (2021). Hypothesized mechanisms of cognitive impairment during high-intensity acute exercise. In Rezaei, N (Ed.), *Integrated Science: Science Without Borders*. Springer International Publishing. doi: 10.1007/978-3-030-65273-9

Ciftci, O., Berezina, K., & **Kang, M.** (2021). Effect of personal innovativeness on technology adoption in hospitality and tourism: Meta-analysis. In W. Worndl et al. (Eds.), *Information and Communication Technologies in Tourism 2021* (pp. 162-174). Springer International Publishing, Switzerland. doi.org/10.1007/978-3-030-65785-7.

**Kang, M.**, & Jin, Y. (2016). Factorial ANOVA/MANOVA. In N, Ntoumanis & N, Myers (Eds.), *An Introduction to Advanced Statistical Analyses for Sport and Exercise Scientists* (pp. 26-40). New York, NY: John Wiley & Sons, Inc.

**Kang, M.**, & Jin, Y. (2016). Repeated measures ANOVA/MANOVA. In N, Ntoumanis & N, Myers (Eds.), *An Introduction to Advanced Statistical Analyses for Sport and Exercise Scientists* (pp. 41-53). New York, NY: John Wiley & Sons, Inc.

Morrow, J. R., Mood, D. P., Disch, J. G., & **Kang, M.** (2015). *Measurement and Evaluation in Human Performance* (5th ed). Champaign, IL: Human Kinetics Publisher.

Park, J. H., & **Kang, M.** (2014). Evaluation in Sports Performance. In P. M. Pardalos & V. Zamaraev (Eds.), *Social Networks and the Economics of Sports* (pp. 75 – 87). Springer International Publishing, Switzerland.

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 (135 [4 in press] articles)

\* indicates a paper written in Korean

Kim, H., **Kang, M.**, & Kim, M. (in press). Rasch calibration and optimal categorization of the sport fandom questionnaire. *International Journal of Sports Marketing and Sponsorship*,

Jung, M., Ryu, S., **Kang, M.**, Javadi, A-H., & Loprinzi, P.D. (in press). Evaluation of the transient hypofrontality theory in the context of exercise: A systematic review with meta-analysis. *Quarterly Journal of Experimental Psychology*,

Spitz, R. W., Dankel, S. J., Bell, Z. W., Wong, V., Abe, T., **Kang, M.**, & Loenneke, J. P. (in press). Blocking the Activin IIB receptor with Bimagrumab (BYM33) increases walking performance: A Meta-Analysis. *Geriatrics & Gerontology International*,

**Kang, M.**, Kim, H., & Kim, M. (in press). Applying the Rasch model to sport management research: The case of a psychological capital questionnaire for sport employees. *International Journal of Sport Management and Marketing*,

Kim, H., Oh, T., Papini, N., Lopez, N. V., Herrmann, S., & **Kang, M.** (2021). Patterns of weight change in a commercial weight loss program. *American Journal of Health Behavior*, 45(4), 614-624.

- Jung, M., Kim, H., Loprinzi, P. D., & **Kang, M.** (2021). Association among length of residence, physical activity, and obesity in U.S. immigrants: A regression-based mediation analysis. *American Journal of Human Biology*. doi: 10.1002/ajhb.23576.
- Jung, M., Kim, H., Ryu, S., & **Kang, M.** (2021). Secular trends in physical activity among immigrants in the United States, 2009 - 2018. *Journal of Physical Activity & Health*, 18(6), 694-704.
- Jung, M., **Kang, M.**, Blough, J. & Loprinzi, P.D. (2021). Experimental effects of acute exercise on cognitive-based short-term memory improvement: A meta-analysis of repeated measures studies. *Journal of Science in Sport and Exercise*. doi.org/10.1007/s42978-021-00121-5
- Nsiah, I., Imeri, H., Jones, A. C., Barnard, M., Bentley, J. P., & **Kang, M.** (2021). The impact of medication synchronization programs on medication adherence: A meta-analysis. *Journal of the American Pharmacists Association*, 61(4), E202-E211. doi.org/10.1016/j.japh.2021.02.005
- Jeon, S., **Kang, M.**, & Ye, X. (2021). Contralateral protective effect against repeated bout of damaging exercise: A meta-analysis. *Research in Sports Medicine*. doi.org/10.1080/15438627.2021.1954512.
- Kim, H., & **Kang, M.** (2021). A tailored domain-specific intervention using contextual information about sedentary behavior to reduce sedentary time: a Bayesian approach. *Measurement in Physical Education and Exercise Science*, 25(2), 171-179.
- Miller, W. M., Jeon, S., **Kang, M.**, Song, J. S., & Ye, X. (2021). Does performance-related information augment the maximal isometric force in the elbow flexors? *Applied Psychophysiology and Biofeedback*, 46, 91-101.
- Farnsworth, J. L., Evans, T., Binkley, H., & **Kang, M.** (2021). Development and validation of a novel knee-specific patient-reported outcomes measure. *Journal of Sport Rehabilitation*, 30, 267-277.
- Farnsworth, J. L., Evans, T., Binkley, H., & **Kang, M.** (2021). Evaluation of knee-specific patient-reported outcome measures using Rasch analysis. *Journal of Sport Rehabilitation*, 30, 278-285.
- Jung M., Kim, H., Loprinzi, P. D., & **Kang, M.** (2021). Serial-multiple mediation of enjoyment and intention on the relationship between creativity and physical activity. *AIMS Neuroscience*, 8(1), 161-180.
- Ryu, S., Loprinzi, P. D., Kim, H., & **Kang, M.** (2020). Sedentary behavior and obesity in youth according to meeting physical activity guidelines: National Health and Nutrition Examination Survey, 2003-2006. *Childhood Obesity*, 16, 5. doi:10.1089/chi.2019.0213
- \*Jung, M., Kim, H., & **Kang, M.** (2020). Rasch calibration and optimal categorization of the Rosenberg Self-Esteem Scale with Korean elite young soccer players. *The Korean Journal of Sport Science*, 31(4), 662-671.

- Jung, M., Brizes, I., Wages, S., Ponce, P., **Kang, M.**, & Loprinzi, P. D. (2020). Combined effects of acute exercise and hypoxia on memory. *Physiological International*, 107(2), 337-348.
- Jung, H. C., **Kang, M.**, Lee, N. H., Jeon, S., & Lee, S. (2020). Impact of placement of Fitbit HR under laboratory and free-living conditions. *Sustainability*, 12(16), 6306. doi.org/10.3390/su12166306
- Jung, M., Zou, L., Yu, J. J., Ryu, S., Yang, L., **Kang, M.**, ... Loprinzi, P. D. (2020). Does exercise have a protective effect on cognitive function under hypoxia? A systematic review with meta-analysis. *Journal of Sport and Health Science*, S2095-2546(20)30050-8. doi:10.1016/j.jshs.2020.04.004
- Ryu, S., Loprinzi, P. D., Kim, H., & **Kang, M.** (2020). Temporal trends in the association between participation in physical education and physical activity among high school students in the United States, 2011-2017. *International Journal of Environmental Research and Public Health*, 17, 2357, doi:10.3390/ijerph17072357
- Yoon, A., Choi, S. M., Hong, J., Hahn, D., **Kang, M.**, & Lee, S. (2020). Motivational signage increases stair usage on a Hispanic serving institution. *Journal of American College Health*, 68(3), 236-241. doi:10.1080/07448481.2018.1539000
- Papini, N., **Kang, M.**, Ryu, S., Griese, E., Wingert, T., & Herrmann, S. (2020). Rasch calibration of the 25-item Connor-Davidson Resilience Scale. *Journal of Health Psychology*. doi.org/10.1177/1359105320904769.
- Kim, H., Reece, J., & **Kang, M.** (2020). Effects of accumulated short bouts of exercise on weight and obesity indices in adults: a meta-analysis. *American Journal of Health Promotion*, 34(1), 96-104.
- Jeon, S., Miller, W. M., **Kang, M.**, & Ye, X. (2020). The minimum number of attempts for reliable isometric strength test score. *Journal of Science in Sport and Exercise*, 2, 89-95. doi.org/10.1007/s42978-019-00035-3.
- \*Kim, H., & **Kang, M.** (2019). A practical approach to the Bayesian statistical analysis method in Kinesiology: Application of the JASP statistics program. *Korean Journal of Measurement and Evaluation in Physical Education and Sports Science*, 21(4), 63-74.
- Ryu, S., Kim, H., **Kang, M.**, Pedisic, Z., & Loprinzi, P. D. (2019). Secular trends in sedentary behavior among high school students in the United States, 2003-2015. *American Journal of Health Promotion*, 33(8), 1174-1181.
- Kim, K. M., Kim, J. S., Cruz-Diaz, D., Ryu, S., **Kang, M.**, & Taube, W. (2019). Changes in spinal and corticospinal excitability in patients with chronic ankle instability: A systematic review with meta-analysis. *Journal of Clinical Medicine*, 8, 1037. doi: 10.3390/jcm8071037.
- Frith, E., Ryu, S., **Kang, M.**, & Loprinzi, P. D. (2019). Systematic review of the proposed associations between physical exercise and creative thinking. *Europe's Journal of Psychology*, 15(4), 858-877.



- Ryu, S., Shivappa, N., Veronese, N., **Kang, M.**, Mann, J. R., Hebert, J. R., Wirth, M. D., & Loprinzi, P. D. (2019). Secular trends in dietary inflammatory index among adults in the United States, 1999-2014. *European Journal of Clinical Nutrition*, 73(10), 1343-1351.
- Kim, H., & **Kang, M.** (2019). Validation of Sedentary Behavior Record instrument as a measure of contextual information of sedentary behavior. *Journal of Physical Activity & Health*, 16(8), 623-630.
- Lee, O., Lee, S., **Kang, M.**, Mun, J., & Chung, J. (2019). Prediction of maximal oxygen consumption using the Young Men's Christian Association-step test in Korean adults. *European Journal of Applied Physiology*, 119(5), 1245-1252.
- Miller, W. M., **Kang, M.**, Jeon, S., & Ye, X. (2019). A meta-analysis of non-local heterologous muscle fatigue. *Journal of Trainology* 8(1), 9-18.
- Searles, C., Farnsworth, J. L., Jubenville, C., & **Kang, M.** (2019). Test-retest reliability of the BrainFx 360 performance assessment. *Athletic Training & Sports Health Care*, 11(4), 183-191.
- Jung, H. C., Jeon, S., Lee, N. H., Kim, K., **Kang, M.**, & Lee, S. (2019). Effects of exercise intervention on visceral fat in obese children and adolescents: Meta-analysis. *The Journal of Sports Medicine and Physical Fitness*, 59(6), 1045-1057.
- Ryu, S., Frith, E., Pedisic, Z., **Kang, M.**, & Loprinzi, P. D. (2019). Secular trends in the association between obesity and hypertension among adults in the United States, 1999-2014. *European Journal of Internal Medicine*, 62, 37-42.
- Kim, H., & **Kang, M.** (2019). Sedentary behavior and metabolic syndrome in physically active adults: National Health and Nutrition Examination Survey 2003-2006. *American Journal of Human Biology*, 31:e23225. doi: 10.1002/ajhb.23225.
- Dankel, S. J., **Kang, M.**, Abe, T., & Loenneke, J. P. (2019). Resistance training induced changes in strength and specific force at the fiber and whole muscle level: A meta-analysis. *European Journal of Applied Physiology*, 119(1), 265-278. doi: 10.1007/s00421-018-4022-9.
- Loprinzi, P.D., Blough, J., Ryu, S. & **Kang, M.** (2019). Experimental effects of exercise on memory function among mild cognitive impairment: Systematic review and meta-analysis. *The Physician and Sportsmedicine*, 47(1), 21-26. doi: 10.1080/00913847.2018.1527647.
- Dankel, S. J., **Kang, M.**, Abe, T., & Loenneke, J. P. (2019). A meta-analysis to determine the validity of taking blood pressure using the indirect cuff method. *Current Hypertension Reports*, 21:11. doi.org/10.1007/s11906-019-0929-8.
- Erwin, H., Brusseau, T.A., Carson, R., Hodge, S., & **Kang, M.** (2018). SHAPE America's 50 Million Strong™: Critical research questions related to youth physical activity. *Research Quarterly for Exercise and Sport*, 89(3), 286-297.

- Braun, S., Bjornson, K., Dillon-Naftolin, E., Sheiko, M., Song, K., & **Kang, M.** (2018). Reliability of StepWatch™ activity monitor to measure locomotor activity in youth with lower limb salvage. *Pediatric Physical Therapy*, 30(3), 217-221.
- Barry, V. W., **Kang, M.**, & Caputo, J. L. (2018). The joint association of fitness and fatness on cardiovascular disease mortality: A meta-analysis. *Progress in Cardiovascular Diseases*, 61(2), 136-141.
- Tudor-Locke, C., Ho, H., Aguiar, E. J., Barreira, T. V., Schuna, J. M., Jr., **Kang, M.**, & Rowe, D. A. (2018). How fast is fast enough? Walking cadence (steps/min) and intensity in adults: A narrative review. *British Journal of Sports Medicine*, 52, 776-788. doi: 10.1136/bjsports-2017-097628
- Mun, J., Kim, Y., Farnsworth, J. L., Suh, S., & **Kang, M.** (2018). Association between objectively measured sedentary behavior and a criterion measure of obesity among adults. *American Journal of Human Biology*, 30(2), e23080. doi: 10.1002/ajhb.23080.
- \*Lee, H. J., & **Kang, M.** (2017). Reliability of isokinetic knee strength measurements using Generalizability theory. *The Asian Journal of Kinesiology*, 19(4), 29-35.
- Farnsworth, J. L., Dargo, L., Ragan, B. G., & **Kang, M.** (2017). Reliability of computerized neurocognitive tests for concussion assessment: A meta-analysis. *Journal of Athletic Training*, 52(9), 826-833. doi: 10.4085/1062-6050-52.6.03
- Herrmann, S. D., McMurray, R. G., Kim, Y., Willis, E. A., **Kang, M.**, & McCurdy, T. (2017). The influence of physical characteristics on the resting energy expenditure of youth: A meta-analysis. *American Journal of Human Biology*, 29, e22944. doi: 10.1002/ajhb.22944
- \*Kim, H., Mun, J., Ryu, S., & **Kang, M.** (2017). Validation of Korean version of international physical activity questionnaire: Construct-related validity. *Korean Journal of Physical Education*, 56(2), 605-616.
- Chen, S., Zhu, X., & **Kang, M.** (2017). Development and validation of an energy-balance knowledge test for fourth- and fifth-grade students. *Journal of Sports Sciences*, 35(10), 1004-1011. doi: 10.1080/02640414.2016.1208837
- Son, Y., Kim, K., Jeon, S., **Kang, M.**, Lee, S., & Park, Y. (2017). Effect of exercise intervention on flow-mediated dilation in overweight and obese adults: Meta-analysis. *International Journal of Vascular Medicine*, vol. 2017, Article ID 7532702, 11 pages, 2017. doi:10.1155/2017/7532702
- Braun, S., Kim, Y., Jetton, A., **Kang, M.**, & Morgan, D. W. (2017). Sedentary behavior, physical activity, and bone health in post-menopausal women. *Journal of Aging and Physical Activity*, 25(2), 173-181. doi: 10.1123/japa.2016-0046
- Kim, K., Ok, G., Jeon, S., **Kang, M.**, & Lee, S. (2017). Sport-based physical activity intervention on body weight in children and adolescents: A meta-analysis. *Journal of Sport Sciences*, 35(4), 369-376.

- \*Mun, J., Kim, H., Ryu, S., & **Kang, M.** (2016). Development of a model to estimate body fat percentage using decision-tree analysis. *Korea Journal of Physical Education*, 55(5), 675-685.
- Kim, Y., **Kang, M.**, Tacon, A. M., & Morrow, J. R. (2016). Longitudinal trajectories of physical activity in women using latent class growth analysis: The WIN study. *Journal of Sport and Health Science*, 5(4), 410-416. doi:10.1016/j.jshs.2015.04.007
- Jin, Y., & **Kang, M.** (2016). Comparing DIF methods for data with dual dependency. *Large-scale Assessments in Education*, 4:18. Doi: 10.1186/s40536-016-0033-3
- Kang, M.**, Mahar, M. T., & Morrow, J. R. (2016). Issues in the assessment of physical activity in children. *Journal of Physical Education, Recreation and Dance*, 87(6), 35-43.
- Braun, S. I., Dillon, E., Sheiko, M., **Kang, M.**, Bjornson, K., & Song, K. (2016). Reliably estimating ambulatory activity in youth with arthrogyriposis. *Disability and Rehabilitation*, 38(8), 749-753.
- Kang, M.**, Kim, Y., & Rowe, D. A. (2016). Measurement considerations of peak stepping cadence measures using NHANES 2005-2006. *Journal of Physical Activity and Health*, 13(1), 44-52.
- Kim, Y., Barreira, T. V., & **Kang, M.** (2016). Concurrent associations of physical activity and screen-based sedentary behavior on obesity among US adolescents: A latent class analysis. *Journal of Epidemiology*, 26(3), 137-144. doi: 10.2188/jea.JE20150068
- Cardinal, B. J., **Kang, M.**, Farnsworth, J. L., & Welk, G. J. (2015). Historical context and current status of the intersection of physical activity and public health: Results of the 2015 American Kinesiology Association's opportunities for Kinesiology survey. *Kinesiology Review*, 4, 329-345.
- Farnsworth, J. L., Kim, Y., & **Kang, M.** (2015). Sleep disorders, physical activity, and sedentary behavior among U.S. adults: National Health and Nutrition Examination Survey. *Journal of Physical Activity and Health*, 12(12), 1567-1575.
- Barreira, T. V., Bennett, J. P., & **Kang, M.** (2015). Validity of pedometers to measure step counts during dance. *Journal of Physical Activity and Health*, 12(10), 1430-1435.
- Kang, M.**, & Rowe, D. A. (2015). Issues and challenges in sedentary behavior measurement. *Measurement in Physical Education and Exercise Science*, 19(3), 105-115.
- Kim, Y., Barry, V. W., & **Kang, M.** (2015). Validation of the ActiGraph GT3X and activPAL accelerometers for the assessment of sedentary behavior. *Measurement in Physical Education and Exercise Science*, 19(3), 125-137.
- \*Mun, J., **Kang, M.**, & Lee, S. (2015). Validation of Korean version of physical self-efficacy scale in Korea military academy male cadets. *Korea Journal of Military Art and Science*, 71, 207-224.

- Brinthaup, T. M., Benson, S., Kang, M., & Moore, Z. (2015). Assessing the accuracy of self-reported self-talk. *Frontiers in Psychology, 6*(6); 570. doi: 10.3389/fpsyg.2015.00570.
- Kim, Y., Cho, J., Fuller, D. K., & **Kang, M.** (2015). Correlates of physical activity among people with disabilities in South Korea: A multilevel modeling approach. *Journal of Physical Activity and Health, 12*(7), 1031-1038.
- Rowlands, A.V., Gomersall, S. R., Tudor-Locke, C., Bassett, D. R., **Kang, M.**, Fraysse, F., Ainsworth, B. E., & Olds, T. S. (2015). Introducing novel approaches for examining the variability of individuals' physical activity. *Journal of Sports Sciences, 33*, 457-466.
- Braun, S. I., Kim, Y., Jetton, A. E., **Kang, M.**, & Morgan, D. W. (2015). Prediction of bone mineral density and content from measures of physical activity and sedentary behavior in younger and older females. *Preventive Medicine Reports, 2*, 300-305.
- Lee, Y. S., Jang, Y. K., & **Kang, M.** (2015). Validity and responsiveness of concept map assessment scores in physical education. *The Physical Educator, 72*(2), 206-223.
- Kim, Y., Welk, G. J., Braun, S. I., & **Kang, M.** (2015). Extracting objective estimates of sedentary behavior from accelerometer data: Measurement considerations for surveillance and research applications. *PLOS ONE, 10*(2): e0118078. doi:10.1371/journal.pone.0118078
- Kang, M.**, Bjornson, K., Barreira, T. V., Ragan, B. G., & Song, K. (2014). The minimum number of days required to establish reliable physical activity estimates in children aged 2-15 years. *Physiological Measurement, 35*, 2229-2237.
- Herrmann, S. D., Barreira, T. V., **Kang, M.**, & Ainsworth, B. E. (2014). Impact of accelerometer wear time on physical activity data: A NHANES semi-simulation data approach. *British Journal of Sports Medicine, 48*, 278-282.
- Hart, P. D., & **Kang, M.** (2014). Physical inactivity and health-related quality of life among U.S. adult men and women. *Journal of Women's Health Care, 3*:6, doi:10.4172/2167-0420.1000201.
- McElhiney, D., **Kang, M.**, Starkey, C., & Ragan, B. G. (2014). Improving the memory sections of the Standardized Assessment of Concussion using item analysis. *Measurement in Physical Education and Exercise Science, 18*(2), 123-134.
- Brinthaup, T. M., & **Kang, M.** (2014). Many-faceted Rasch calibration: An example using the self-talk scale. *Assessment, 21*(2), 241-249.
- Ishikawa, S., Kim, Y., **Kang, M.**, & Morgan, D. W. (2013). Effects of weight-bearing exercise on bone health in girls: A meta-analysis. *Sports Medicine, 43*(9), 875-892.
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#### **D. Other Journal Articles Published (6 articles)**

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Son, Y., **Kang, M.,** & Park, Y. (2019). Response to: Comment on "Effect of exercise intervention on flow-mediated dilation in overweight and obese adults: Meta-analysis". *International Journal of Vascular Medicine*, vol. 2019, Article ID 2470581, 2 pages.  
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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).*

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

#### **A. Refereed Presentations (240 presentations)**

Wijayatunga, N., Kim, H., Hays, H. M., & **Kang, M.** (November, 2021). Moderate to vigorous physical activity is less in normal weight obesity in the United States – Cross-sectional study. Paper to be presented at The Obesity Society. Virtual ObesityWeek Interactive conference.

- Ryu, S., Jung, M., & **Kang, M.** (June, 2021). Psychometric evaluation of memory section in the Standardized Assessment of Concussion from the SAC5. Paper submitted to the ACSM national conference. *Medicine & Science in Sports & Exercise*, 53(xx):xxx-xxx. Online due to COVID-19.
- Jung, M., Kim, H., Ryu, S., & **Kang, M.** (June, 2021). Secular trends in physical activity among immigrants in the United States, 2009 to 2018. Paper submitted to the ACSM national conference. *Medicine & Science in Sports & Exercise*, 53(xx):xxx-xxx. Online due to COVID-19.
- Kang, M.**, Kim, H., Ryu, S., & Jung, M. (April, 2021). Scale adaptation in exercise and sport sciences research. Paper presented at the SHAPE America national conference. *Research Quarterly for Exercise and Sport*, 83 (Suppl 1), xxxx-xxx. Online due to COVID-19.
- Jung, M., Kim, H., Loprinzi, P. D., & **Kang, M.** (April, 2021). Evaluation of a neurocognitive affect-related model in physical activity context. Paper presented at the SHAPE America national conference. *Research Quarterly for Exercise and Sport*, 83 (Suppl 1), xxxx-xxx. Online due to COVID-19.
- Lee, K., Kim, J., Choi, C. H., Lee, M., & **Kang, M.** (April, 2021). Trend analysis of home-based physical activity researcher using text mining. Paper presented at the SHAPE America national conference. *Research Quarterly for Exercise and Sport*, 83 (Suppl 1), xxxx-xxx. Online due to COVID-19.
- Papini, N. M., Jung, M., Cook, A., Lopez, N. V., Herrman S. D., & **Kang, M.** (April, 2021). Rasch calibration of the 26-item Eating Attitude Test (EAT-26). Paper presented at the Society of Behavioral Medicine, Orlando, FL. Online due to COVID-19.
- Wijayatunga, N., Kim, H., Jung, M., & **Kang, M.** (November, 2020). Handgrip strength is lower in metabolically unhealthy normal weight individuals in the United States. Paper presented at The Obesity Society, Atlanta, GA. Online due to COVID-19.
- Jeon, S., Miller, W. M., Song, J., **Kang, M.**, & Ye, X. (July, 2020). The comparison of contralateral repeated bout effects on arm muscle and hand muscle. Paper presented at the ACSM national conference, San Francisco, CA. *Medicine & Science in Sports & Exercise*, 52(7S):934. Online due to COVID-19.
- Song, J. S., Jeon, S., Miller, W. M., **Kang, M.**, & Ye, X. (July, 2020). An examination of the nonlocal repeated bout effect of the elbow flexor muscles. Paper presented at the ACSM national conference, San Francisco, CA. *Medicine & Science in Sports & Exercise*, 52(7S):928-929. Online due to COVID-19.
- Miller, W. M., Jeon, S., Song, J., **Kang, M.**, & Ye, X. (July, 2020). How do different forms of feedback effect maximal voluntary force in the forearm flexors? Paper presented at the ACSM national conference, San Francisco, CA. *Medicine & Science in Sports & Exercise*, 52(7S):701. Online due to COVID-19.
- Ryu, S., Kim, H., Loprinzi, P., & **Kang, M.** (July, 2020). The mediating effect of physical activity on relationship between sleep and weight status. Paper presented at the ACSM

- national conference, San Francisco, CA. *Medicine & Science in Sports & Exercise*, 52(7S):426-427. Online due to COVID-19.
- Kim, H., Ryu, S., & **Kang, M.** (July, 2020). Identifying threshold of daily sedentary behavior time for prevention of obesity. Paper presented at the ACSM national conference, San Francisco, CA. *Medicine & Science in Sports & Exercise*, 52(7S):426. Online due to COVID-19.
- Jung, M., Kim, H., & **Kang, M.** (July, 2020). Association among length of residence, physical activity, and obesity in US immigrants. Paper presented at the ACSM national conference, San Francisco, CA. *Medicine & Science in Sports & Exercise*, 52(7S):421. Online due to COVID-19.
- Kim, J., Park, J., Kim, K., **Kang, M.**, & Lee, S. (July, 2020). Effect of exercise on OPG and Rankl as bone metabolic markers: A systematic review and meta-analysis. Paper presented at the ACSM national conference, San Francisco, CA. *Medicine & Science in Sports & Exercise*, 52(7S):421. Online due to COVID-19.
- Kim, H., & **Kang, M.** (April, 2020). Effects of behavior change intervention on reducing sedentary time: A Bayesian approach. Paper presented at the SHAPE America national conference, Salt Lake City, UT. *Research Quarterly for Exercise and Sport*, 82 (Suppl 1), A22-A23. Online due to COVID-19.
- Ryu, S., Kim, H., Loprinzi, P., & **Kang, M.** (April, 2020). Temporal trends in between physical education and physical activity among high school students in the United States, 2011-2017. Paper presented at the SHAPE America national conference, Salt Lake City, UT. *Research Quarterly for Exercise and Sport*, 82 (Suppl 1), A85. Online due to COVID-19.
- Oh, T., Kim, H., Papini, N., Herrmann, S., & **Kang, M.** (November, 2019). Identifying factors that influence the success of structured weight loss program. Paper presented at the ObesityWeek 2019 national conference, The Obesity Society, Las Vegas, NV.
- Kim, H., & **Kang, M.** (May, 2019). Tailored domain-specific sedentary behavior intervention on reducing sedentary time. Paper presented at the ACSM national conference, Orlando, FL. *Medicine & Science in Sports & Exercise*, 51(6S):854-855.
- Ryu, S., Kim, H., Loprinzi, P., & **Kang, M.** (May, 2019). Temporal trends of physical activity in high school students in the United States, 2011-2017. Paper presented at the ACSM national conference, Orlando, FL. *Medicine & Science in Sports & Exercise*, 51(6S):223.
- Shirley, H. L., Oh, T., **Kang, M.**, Kim, M., Kim, H., Singletary, S., & Valliant, M. W. (May, 2019). Classification of collegiate athletes based on their injury history. Paper presented at the ACSM national conference, Orlando, FL. *Medicine & Science in Sports & Exercise*, 51(6S):745.
- Shin, J., Choi, S. Y., Hong, S. G., Sayoc, J., Rath, M., **Kang, M.**, Brown, M. D., Murphy, M., & Park, J. Y. (May, 2019). Differential cardiovascular and mitochondrial adaptations in humanized P53 R72P knock-in mice. Paper presented at the ACSM national conference, Orlando, FL. *Medicine & Science in Sports & Exercise*, 51(6S):654.

- Kim, H., & **Kang, M.** (March, 2019). Criterion-referenced validity of Sedentary Behavior Record using wearable cameras. Paper presented at the SHAPE America national conference, Tampa, FL.
- Ryu, S., Kim, H., Loprinzi, P., & **Kang, M.** (March, 2019). Temporal trends of sedentary behavior time in high school students in the United States, 2011-2017. Paper presented at the SHAPE America national conference, Tampa, FL.
- Papini, N., **Kang, M.**, Ryu, S., Griese, E., Wingert, T., Herrmann, S. D. (March, 2019). Rasch calibration of the 25-item Connor-Davidson Resilience Scale. Paper presented at the Society of Behavioral Medicine Annual Meeting. Washington, D.C. *Annals of Behavioral Medicine*, 53(S1):S625.
- Ryu, S., Kim, H., & **Kang, M.** (June, 2018). Effect of warm-up intervention on physical performance: Meta-analysis. Paper presented at the ACSM national conference, Minneapolis, MN.
- Kim, H., Reece, J., & **Kang, M.** (May, 2018). Effects of accumulated short-bout exercise on obesity index: A meta-analysis. Paper presented at the ACSM national conference, Minneapolis, MN.
- Kang, M.**, Lee, N. H., Jung, H. C., Jeon, S., & Lee, S. (May, 2018). Impact of placement of wrist-worn activity monitors during the lab and free-living settings. Paper presented at the ACSM national conference, Minneapolis, MN.
- Lee, S., Hong, K. S., Lee, N. H., Jeon, S., Bae, Y., & **Kang, M.** (April, 2018). Comparing physical activity measurements of wrist-worn accelerometer-based NeoFit devices among different locations. Paper presented at the Experimental Biology Meeting, San Diego, CA.
- Kim, H., Mun, J., Ryu, S., & **Kang, M.** (March, 2018). Sedentary behavior and metabolic syndrome in physically active adults. Paper presented at the SHAPE America national conference, Nashville, TN.
- Ryu, S., Mun, J., Kim, H., & **Kang, M.** (March, 2018). Trend analysis of measurement and evaluation in RQES using text mining. Paper presented at the SHAPE America national conference, Nashville, TN.
- Ryu, S., Kim, H., Mun, J., & **Kang, M.** (March, 2018). Association between sedentary behavior and obesity in adolescent according to meeting of physical activity guideline. Paper presented at the SHAPE America national conference, Nashville, TN.
- Noerper, T., Kim, H., & **Kang, M.** (July, 2017). Effect of nutrition interventions on BMI in youth attending after-school programs: A meta-analysis. Paper presented at the Society for Nutrition Education and Behavior Annual Conference, Washington, DC. (*Selected as the 2017 SNEB Student Poster Award winner*).

- Kim, Y., Seo, E., Koh, Y., & **Kang, M.** (June, 2017). Longitudinal trajectories of physical activity among people with physical disabilities in South Korea. Paper presented at the International Society of Adapted Physical Activity Conference, South Korea.
- Mun, J., Farnsworth, J. L., Kim, H., Ragan, B. G., & **Kang, M.** (June, 2017). Cross-validation of the developed obesity cut-off points for Korean adults. Paper presented at the ACSM national conference, Denver, Colorado.
- Farnsworth, J. L., Evans, T., Binkley, H., & **Kang, M.** (June, 2017). Rasch calibration of the Knee Injury and Osteoarthritis Outcomes score. Paper presented at the ACSM national conference, Denver, Colorado.
- Ryu, S., Kim, H., Mun, J., & **Kang, M.** (May, 2017). Validity of sedentary behavior guideline for youth. Paper presented at the ACSM national conference, Denver, Colorado.
- Jeon, S., Jung, H. C., Lee, N. H., Ok, G., Kim, K., **Kang, M.**, & Lee, S. (May, 2017). Effects of exercise intervention on visceral fat in obese youth: Meta-analysis. Paper presented at the ACSM national conference, Denver, Colorado.
- Ok, G., Lee, N. H., Jung, H. C., Jeon, S., Kim, K., **Kang, M.**, & Lee, S. (May, 2017). Effects of energy drink on power performance: Meta-analysis. Paper presented at the ACSM national conference, Denver, Colorado.
- Lee, N. H., Jung, H. C., Ok, G., Jeon, S., Kim, K., **Kang, M.**, & Lee, S. (May, 2017). Effects of Korean wild ginseng drink on recovery from acute strenuous exercise. Paper presented at the ACSM national conference, Denver, Colorado.
- Kim, H., Morgan, D. W., Stevens, S. L., Coons, J. M., & **Kang, M.** (May, 2017). Validity of the MAPS score as a functional measure in adults with incomplete spinal cord injury. Paper presented at the ACSM national conference, Denver, Colorado.
- Thareja, G., Mun, J., & **Kang, M.** (May, 2017). Association of sedentary behavior with cardiovascular disease risk factors in osteoarthritis patients. Paper presented at the ACSM national conference, Denver, Colorado.
- Kim, H., Mun, J., Ragan, B. G., & **Kang, M.** (March, 2017). Effect of sedentary behavior intervention on change in BMI: Meta-analysis. Paper presented at the SHAPE America National Convention & Expo, Boston, MA.
- Thareja, G., Farnsworth, J. L., Ragan, B. G., & **Kang, M.** (March, 2017). Association between physical activity and depression in osteoarthritis patients. Paper presented at the SHAPE America National Convention & Expo, Boston, MA.
- Farnsworth, J. L., **Kang, M.**, & Ragan, B. G. (June, 2016). Comparison of Item Response Theory models for analyzing Standard Assessment of Concussion data. Paper presented at the NATA 67<sup>th</sup> annual meeting and clinical symposia, Baltimore, Maryland.
- Mun, J., Farnsworth, J. L., Ragan, B. G., & **Kang, M.** (June, 2016). Development of a model to estimate body fat percentage using decision tree analysis. Paper presented at the ACSM national conference, Boston, MA.

- Farnsworth, J. L., Dargo, L., Ragan, B. G., & **Kang, M.** (June, 2016). Reliability of computerized neurocognitive tests for concussion assessment: A meta-analysis. Paper presented at the ACSM national conference, Boston, MA.
- Kim, H., Ryu, S., Ragan, B. G., & **Kang, M.** (June, 2016). Compositional data analysis of sedentary behavior patterns in overweight and non-overweight adults. Paper presented at the ACSM national conference, Boston, MA.
- Ryu, S., Kim, H., Mun, J., Ragan, B. G., & **Kang, M.** (June, 2016). Compositional data analysis of total activity patterns by sex and obesity status. Paper presented at the ACSM national conference, Boston, MA.
- Lee, S., Jung, H. C., Lee, N. H., Ok, G., & **Kang, M.** (June, 2016). Acute effects of ginseng supplementation on exercise performance, cognitive function, and fatigue recovery. Paper presented at the ACSM national conference, Boston, MA.
- Ok, G., Lee, N. H., Jung, H. C., **Kang, M.**, & Lee, S. (June, 2016). Effects of 7 days Korea ginseng drink supplementation on fatigue recovery. Paper to be presented at the ACSM national conference, Boston, MA.
- Mun, J., Farnsworth, J. L., Ragan, B. G., & **Kang, M.** (April, 2016). Establishing body-fat relationships for the development of valid cut-points. Paper presented at the SHAPE America National Convention & Expo, Minneapolis, MN.
- Farnsworth, J. L., Ragan, B. G., & **Kang, M.** (April, 2016). Effects of levodopa treatment on Parkinson's disease patients' physical activity. Paper presented at the SHAPE America National Convention & Expo, Minneapolis, MN.
- Kim, H., Farnsworth, J. L., Ryu, S., & **Kang, M.** (October, 2015). Convergent validity evidence for the sedentary behavior record. Paper presented at the *Sedentary Behavior and Health Conference* (p. 49). Urbana-Champaign, Illinois, October 15 – 17, 2015.
- Kang, M.**, Kim, H., Farnsworth, J. L., & Ragan, B. G. (October, 2015). Identifying sources of error in a self-report sedentary behavior instrument. Paper presented at the *Sedentary Behavior and Health Conference* (p. 39). Urbana-Champaign, Illinois, October 15 – 17, 2015.
- Farnsworth, J. L., **Kang, M.**, & Ragan, B. G. (June, 2015). Rasch partial-credit model calibration of the clinical presentation of concussion symptoms. Paper presented at the NATA 66<sup>th</sup> annual meeting and clinical symposia, St. Louis, MO.
- Farnsworth, J. L., Ragan, B. G., & **Kang, M.** (May, 2015). Exploring the internal structure of the NHANES physical functioning questionnaire. Paper presented at the ACSM national conference, San Diego, CA. *Medicine and Science in Sports and Exercise*, 47(5), S139.
- Kim, H., Mun, J., Farnsworth, J. L., Ragan, B. G., & **Kang, M.** (May, 2015). Association between objectively measured sedentary time and hepatic steatosis among US adults. Paper presented at the ACSM national conference, San Diego, CA. *Medicine and Science in Sports and Exercise*, 47(5), S177.

- Lee, H. J., **Kang, M.**, & Kim, H. (May, 2015). Reliability of isokinetic knee strength measurements using Generalizability theory. Paper presented at the ACSM national conference, San Diego, CA. *Medicine and Science in Sports and Exercise*, 47(5), S212.
- Vande Linde, R. J., Braun, S. I., Kim, Y., **Kang, M.**, & Morgan, D. W. (May, 2015). Reliability of the sedentary behavior record in older adults. Paper presented at the ACSM national conference, San Diego, CA. *Medicine and Science in Sports and Exercise*, 47(5), S245.
- Kim, K., Ok, G., Jeon, S., **Kang, M.**, & Lee, S. (May, 2015). Sport-based physical activity intervention on body weight in children and adolescents: A meta-analysis. Paper presented at the ACSM national conference, San Diego, CA. *Medicine and Science in Sports and Exercise*, 47(5), S833-834.
- Mun, J., Kim, Y., Farnsworth, J. L., Kim, H., Ragan, B. G., & **Kang, M.** (May, 2015). Association between compliance with physical activity guidelines and health-related fitness in US children and adolescents. Paper presented at the ACSM national conference, San Diego, CA. *Medicine and Science in Sports and Exercise*, 47(5), S918-919.
- Mun, J., Kim, Y., Farnsworth, J. L., & **Kang, M.** (March, 2015). Development and cross-validation of prediction equation of body-fatness from NHANES. Paper presented at the SHAPE America national conference, Seattle, WA.
- Kang, M.**, Farnsworth, J. L., & Ragan, B. G. (March, 2015). Optimal categorization of the NHANES function questionnaire: An exploratory study. Paper presented at the SHAPE America national conference, Seattle, WA.
- Farnsworth, J. L., Ragan, B. G., & **Kang, M.** (March, 2015). Rasch calibration of the 20-item NHANES physical function questionnaire. Paper presented at the SHAPE America national conference, Seattle, WA.
- Kim, Y., Seo, E., Koh, Y., & **Kang, M.** (October, 2014). Examining longitudinal trajectories of physical activity among people with physical disabilities in South Korea using a growth mixture modeling. Paper presented at 2014 North American Federation of Adapted Physical Activity Symposium, Ann Arbor, MI.
- Farnsworth, J. L., Haley, J., Ragan, B. G., & **Kang, M.** (June, 2014). Alternate forms of the Standard Assessment of Concussion: Are they truly equivalent? Paper presented at the NATA 65<sup>th</sup> annual meeting and clinical symposia, Indianapolis, IN.
- Kang, M.**, & Kim, Y. (May, 2014). Measurement considerations of peak cadence measures using NHANES data. Paper presented at the ACSM national conference, Indianapolis, IN. *Medicine and Science in Sports and Exercise*, 46(5), S615.
- Farnsworth, J. L., Ishikawa, S., & **Kang, M.** (May, 2014). Criterion-referenced validation of the sedentary behavior record instrument. Paper presented at the ACSM national conference, Indianapolis, IN. *Medicine and Science in Sports and Exercise*, 46(5), S615.
- Kim, Y., **Kang, M.**, & Morrow, Jr, J. R. (May, 2014). Longitudinal trajectories of step-count measures in women using a latent class growth curve modeling: The WIN study. Paper

- presented at the ACSM national conference, Indianapolis, IN. *Medicine and Science in Sports and Exercise*, 46(5), S611.
- Mun, J., Kim, Y., Farnsworth, J. L., & **Kang, M.** (May, 2014). Association of objectively measured sedentary behavior with obesity in adults. Paper presented at the ACSM national conference, Indianapolis, IN. *Medicine and Science in Sports and Exercise*, 46(5), S610.
- Ishikawa, S., Kim, Y., Carrillo, E. M., Kimball, S. R., **Kang, M.**, & Morgan, D. W. (May, 2014). Sedentary behavior, physical activity, and bone health in postmenopausal women. Paper presented at the ACSM national conference, Orlando, FL. *Medicine and Science in Sports and Exercise*, 46(5), S49.
- Hong, J., Yoon, A., Choi, S. M., Hahn, D., **Kang, M.**, & Lee, S. (May, 2014). Comparing effectiveness of motivational signage for promoting physical activity between two difference story buildings. Paper presented at the ACSM national conference, Orlando, FL. *Medicine and Science in Sports and Exercise*, 46(5), S81.
- Yoon, A., Choi, S. M., Hong, J., Hahn, D., **Kang, M.**, & Lee, S. (May, 2014). Motivational signage promotes physical activity on a college campus. Paper presented at the ACSM national conference, Orlando, FL. *Medicine and Science in Sports and Exercise*, 46(5), S84.
- Ishikawa, S., Reece, J. D., Mace, M., Kim, Y., **Kang, M.**, & Morgan, D. W. (May, 2014). Daily sedentary behavior, physical function, and health-related quality of life in community-dwelling older women. Paper presented at the International Society of Behavior Nutrition and Physical Activity (ISBNPA) annual conference, San Diego, CA.
- Farnsworth, J. L., Kim, Y., & **Kang, M.** (April, 2014). Validating the SenseWear® Armband as a measure of sedentary behavior. Paper presented at the SHAPE America national conference, St. Louis, MO.
- Kang, M.**, Farnsworth, J. L., & Kim, Y. (April, 2014). Estimating behavior reliability for the sedentary behavior record measurements. Paper presented at the SHAPE America national conference, St. Louis, MO.
- Lee, Y. S., Ramos, A., & **Kang, M.** (April, 2014). Enhancing teacher candidates' PCK through a workshop: A preliminary study. Paper presented at the SHAPE America national conference, St. Louis, MO.
- Bloodworth, L. C., & **Kang, M.** (February, 2014). The effects of weighted vest exercise on strength, balance, and bone mineral density: A meta-analysis. Paper presented at the American Physical Therapy Association (APTA) combined sections meeting, Las Vegas, NV.
- Hong, J., Yoon, A., Choi, S. M., Hahn, D., **Kang, M.**, & Lee, S. (February, 2014). Comparing effectiveness of motivational signage for promoting physical activity between two difference story buildings. Paper presented at the Texas Chapter ACSM conference, Fort Worth, TX.



- Farnsworth, J. L., McElhiney, D. S., Kim, Y., **Kang, M.**, & Ragan, B. G. (June, 2013). Objective assessment of function following head injury using Movement and Activity in Physical Space (MAPS) scores. Paper presented at the NATA 64<sup>th</sup> annual meeting and clinical symposia, Las Vegas, NV.
- Haley, J. T., Ragan, B. G., & **Kang, M.** (June, 2013). Psychometric evaluation of the Standardized Assessment of Concussion in high school student-athletes. Paper presented at the NATA 64<sup>th</sup> annual meeting and clinical symposia, Las Vegas, NV.
- Kim, Y., Farnsworth, J. L., Ishikawa, S., & **Kang, M.** (June, 2013). A preliminary study for development of a new identification algorithm for objectively measured sedentary behavior. Paper presented at the 2013 International Conference on Ambulatory Monitoring of Physical Activity and Movement, Amherst, MA.
- Farnsworth, J. L., Kim, Y., & **Kang, M.** (June, 2013). Sleep disorders and physical activity among US adults: National Health and Nutrition Examination Survey. Paper presented at the 2013 International Conference on Ambulatory Monitoring of Physical Activity and Movement, Amherst, MA.
- Kang, M.**, Bjornson, K., Barreira, T. V., Ragan, B. G., & Song, K. (June, 2013). Influence of children's age and gender in establishing reliable physical activity estimates. Paper presented at the 2013 International Conference on Ambulatory Monitoring of Physical Activity and Movement, Amherst, MA.
- Rowe, D. A., **Kang, M.**, & Kim, Y. (June, 2013). Comparison of four "Time in Intensity" physical activity indices as predictors of cardiometabolic health. Paper presented at the 2013 International Conference on Ambulatory Monitoring of Physical Activity and Movement, Amherst, MA.
- Ishikawa, S., Reece, J. D., Carter, R. M., Conners, R. T., Killen, L. L., **Kang, M.**, & Morgan, D. W. (May, 2013). Convergent validity of the Omron HJ-151 pedometer during free-living physical activity in youth. Paper presented at the ACSM national conference, Indianapolis, IN. *Medicine and Science in Sports and Exercise*, 45(5), S275.
- Snook, E. M., **Kang, M.**, & Ragan, B. G. (May, 2013). Impact of car travel on daily accelerometer activity and step count data. Paper presented at the ACSM national conference, Indianapolis, IN. *Medicine and Science in Sports and Exercise*, 45(5), S275.
- Farnsworth, J. L., Kim, Y., & **Kang, M.** (May, 2013). Association between moderate to vigorous physical activity and physical function in adults. Paper presented at the ACSM national conference, Indianapolis, IN. *Medicine and Science in Sports and Exercise*, 45(5), S322.
- Kim, Y., & **Kang, M.** (May, 2013). Influence of bout periods of sedentary behaviors on health outcomes. Paper presented at the ACSM national conference, Indianapolis, IN. *Medicine and Science in Sports and Exercise*, 45(5), S38.
- Carter, R. M., Ishikawa, S., Farnsworth, J. L., Barry, V. W., & **Kang, M.** (May, 2013). Development and validation of Sedentary Behavior Record (SBR) instrument. Paper

- presented at the ACSM national conference, Indianapolis, IN. *Medicine and Science in Sports and Exercise*, 45(5), S271.
- Kang, M.**, Kim, Y., & Rowe, D. A. (May, 2013). Reliability of peak stepping cadences using Generalizability theory. Paper presented at the ACSM national conference, Indianapolis, IN. *Medicine and Science in Sports and Exercise*, 45(5), S273.
- David, S. L., Louk, J., **Kang, M.**, & Ragan, B. G. (May, 2013). Development of a patient-AT trust instrument using Rasch modeling. Paper presented at the ACSM national conference, Indianapolis, IN. *Medicine and Science in Sports and Exercise*, 45(5), S290.
- Ishikawa, S., **Kang, M.**, Bjornson, K. F., & Song, K. (May, 2013). Ambulatory activity monitoring of youth with arthrogyrosis and lower limb salvage. Paper presented at the Gait and Clinical Movement Analysis Society 2013, Cincinnati, OH.
- Lee, Y. S., Belcher, D., Hall, T., & **Kang, M.** (April, 2013). Validation of the Pedagogical Content Knowledge measurement tool. Paper presented at the AAHPERD national conference, Charlotte, NC. *Research Quarterly for Exercise and Sport*, 84 (Suppl 1), A-47.
- Kim, Y., Ishikawa, S., & **Kang, M.** (April, 2013). Latent class analysis of health risk behaviors among adolescents. Paper presented at the AAHPERD national conference, Charlotte, NC. *Research Quarterly for Exercise and Sport*, 84 (Suppl 1), A-67.
- Kang, M.**, & Kim, Y. (April, 2013). How many missing days can be recovered? Children step-count data. Paper presented at the AAHPERD national conference, Charlotte, NC. *Research Quarterly for Exercise and Sport*, 84 (Suppl 1), A-27-28.
- Ishikawa, S., Reece, J. D., Carter, R. T., Conners, L. L., Killen, M., **Kang, M.**, & Morgan, D. W. (Feb, 2013). Validation of the Omron HJ-151 pedometer during free-living physical activity in youth. Paper presented at the SEACSM annual meeting.
- Kim, Y., Jho, J., Fuller, D. K., & **Kang, M.** (Oct, 2012). Determinants of exercise participation among people with disabilities in South Korea. Paper presented at the NAFAPA national conference, Birmingham, AL.
- Ishikawa, S., **Kang, M.**, Bjornson, K. F., & Song, K. (Oct, 2012). Reliably measuring ambulatory activity levels of children and youth with cerebral palsy. Paper presented at the NAFAPA national conference, Birmingham, AL.
- Renfrow, M., Barreira, T. V., **Kang, M.**, & Tseh, W. (Oct, 2012). The validity of 7-site skinfold measurements taken by exercise science students. Presented at the Midwest Regional Meeting of the ACSM.
- 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 presented at the ACSM national conference, San Francisco, CA. *Medicine and Science in Sports and Exercise*, 44(5), 8.

- 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 presented at the ACSM national conference, San Francisco, CA. *Medicine and Science in Sports and Exercise*, 44(5), 370.
- Ishikawa, S., Kim, Y., **Kang, M.**, & Morgan, D. W. (June, 2012). Physical activity, sedentary time, and bone health in younger and older females. Paper presented at the ACSM national conference, San Francisco, CA. *Medicine and Science in Sports and Exercise*, 44(5), 154.
- 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 presented at the ACSM national conference, San Francisco, CA. *Medicine and Science in Sports and Exercise*, 44(5), 361.
- 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 presented at the ACSM national conference, San Francisco, CA. *Medicine and Science in Sports and Exercise*, 44(5), 258.
- 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 presented at the ACSM national conference, San Francisco, CA. *Medicine and Science in Sports and Exercise*, 44(5), 489.
- Kim, B., Hart, P., **Kang, M.**, Roth, S., Brown, M., Hagberg, J., & Park, J. Y. (April, 2012). Functional study of tumor suppressor p53 gene variation: Effect on cardiovascular adaptation to exercise training. Paper presented at the Experimental Biology meeting, San Diego, CA.
- Kim, Y., & **Kang, M.** (Mar, 2012). Comparison of imputation methods in handling step-count missing data. Paper presented at the 12th Measurement and Evaluation Symposium: New Approaches in Measuring and Assessing Physical Activity (p. 14). 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 presented at the 12th Measurement and Evaluation Symposium: New Approaches in Measuring and Assessing Physical Activity (p. 15). Boston, MA.
- Barreira, T. V., Tudor-Locke, C., **Kang, M.**, Johnson, W., & Katzmarzyk, P. T. (Mar, 2012). Reliability and correlation attenuation in physical activity measurement. Paper presented at the 12th Measurement and Evaluation Symposium: New Approaches in Measuring and Assessing Physical Activity (p. 14). 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 presented at the 12th Measurement and Evaluation Symposium: New Approaches in Measuring and Assessing Physical Activity (p. 16). 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 presented at the 12th Measurement and Evaluation Symposium: New Approaches in Measuring and Assessing Physical Activity (p. 13). Boston, MA.
- Kang, M.** (Mar, 2012). RC Grant Findings: Establishing a criterion-referenced cutoff score of daily step counts. Paper 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 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 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 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 step activity monitoring in adults with incomplete spinal cord injury. Paper presented at the International Conference on Spinal Cord Medicine & Rehabilitation, Washington, D. C. *Topics in Spinal Cord Injury Rehabilitation*, 16(Suppl 1), 77.
- 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 3DPAAR 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 (50 presentations)**

- Kang, M.** (October, 2021). Method of reliability: A Generalizability theory perspective. Invited special lecture presentation at 2021 International Conference on Kinesiology in conjunction with 22<sup>nd</sup> Korean Association of Certified Exercise Professionals (KACEP) Annual Meeting of Kinesiologists, Seoul, Korea.
- Kang, M.** (February, 2021). Meta-analysis. Invited workshop presented via Zoom at Ulsan University, Ulsan, Korea.
- Kang, M.** (August, 2020). Meta-analysis. Invited workshop presented via Zoom at Texas A&M University-San Antonio, San Antonio, TX.
- Kang, M.** (July, 2019). Validity generalization. Invited presentation at Korea National Sport University, Seoul, Korea.
- Kang, M.** (July, 2019). Process for developing a certification exam. Invited presentation at Korean Association of Certified Exercise Professionals, Seoul, Korea.
- Kang, M.** (November, 2018). Biostatistics Seminar. Invited workshop presented at Texas A&M University-San Antonio, San Antonio, TX.
- Kang, M.** (October, 2018). Measurement and Evaluation: An evolving field of study. Invited presentation at the 2018 International Sport Science Congress – In Commemoration of the 1988 Seoul Olympic Games, Iksan, Korea.
- Kang, M.** (October, 2018). Generalized estimating equations. Invited presentation at Korea National Sport University, Seoul, Korea.
- Kang, M.** (March, 2018). Youth physical activity: Methods and assessment challenges. Invited presentation at The 13<sup>th</sup> Measurement and Evaluation Symposium, SHAPE America Convention, Nashville, TN.
- Kang, M.** (February, 2018). Measurement and research: Physical activity and sedentary behavior. Invited presentation at Kinesiology Graduate Seminar at Mississippi State University, Starkville, MS.
- Lee, S., Jung, H. C., Lee, N. H., Kim, Y. C., & **Kang, M.** (November, 2017). Effects of wild ginseng extract on exercise performance and cognitive function. Invited presentation at Asia Conference on Kinesiology (ACK) 8th Annual Meeting, Daegu, Korea.
- Kang, M.** (June, 2017). Advantages of Statistics in Sports. Invited presentation at Dream Together Master: Special Lecture Series at Seoul National University. Seoul, Korea.
- Kang, M.** (June, 2017). Changing field in US. Invited presentation at Kangwon University, Chuncheon, Korea.
- Kang, M.** & Choi, C. (January, 2017). Benford's Law in sports data: Preliminary study to detect match-fixing. Invited presentation at Sportsradar. London, UK.



- Kang, M.** (October, 2016). Measurement and technology: Improvement in assessment of functional outcomes following sports-related injuries. Invited presentation at 2016 Conference on Sports and Performance Analytics at Korea National Sport University, Seoul, Korea.
- Kang, M.** (June, 2016). Meta-analysis. Invited workshop presented at Dankook University, Yongin, Korea.
- Kang, M.** (June, 2016). Changing field and graduate student training in US. Invited presentation at Ulsan University, Ulsan, Korea.
- Kang, M.** (June, 2016). Changing field and graduate student training in US. Invited presentation at Korea National Sport University, Seoul, Korea.
- Kang, M.** (April, 2016). The Measurement and Evaluation Keynote Lecture Series: Issues and Challenges in Sedentary Behavior Measurement. Invited presentation at SHAPE America Convention, Minneapolis, MN.
- Kang, M.** (February, 2016). Research synthesis: Meta-analysis. Invited workshop presented at Texas A&M University-San Antonio, San Antonio, TX.
- Kang, M.** (June, 2015). Meta-analysis. Invited workshop presented at Sangmyung University, Seoul, Korea.
- Kang, M.** (June, 2015). Keys for the success. Invited lecture presented at Ulsan Sport Science Secondary School, Ulsan, Korea.
- Kang, M.** (June, 2015). Randomization: What, Why, and How? Invited lecture presented at Kookmin University, Seoul, Korea.
- Kang, M.** (June, 2015). Generalizability theory. Invited lecture presented at Korea National Sport University, Seoul, Korea.
- Kang, M.** (October, 2014). Measurement issues in physical activity and function in older adults. Invited presentation at Kookmin University, Seoul, Korea.
- Kang, M.** (August, 2014). Issues and challenges in sedentary behavior measurement. Invited presentation at the 2014 Incheon Asian Games International Sport Science Congress – In Commemoration of the 1988 Seoul Olympic Games, Incheon, Korea.
- Kang, M.** (August, 2014). Research synthesis: Meta-analysis. Invited lecture presented at Kookmin University, Seoul, Korea.
- Kang, M.** (August, 2014). Measurement and evaluation research in Kinesiology: Past, current, and future. Invited presentation at Korea National Sport University, Seoul, Korea.
- Kang, M.** (June, 2014). Research synthesis: Meta-analysis. Invited workshop presented at Texas A&M University-San Antonio, San Antonio, TX.

- Kang, M.** (March, 2014). Bridging the gap: Physical activity measurement. Invited presentation at the College of Behavioral and Health Sciences: Building a student research/service project team, Scholars Week 2014.
- Kang, M.** (April, 2013). Methodological considerations to assess step-count physical activity. Invited presentation at Taylor University, Upland, IN.
- Kang, M.** (April, 2013). Physical activity assessments: Future research direction. Invited presentation at Taylor University, Upland, IN.
- 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.

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

*(Received 26 research grants or contracts [Total=\$377,179])*

**Title:** National Food Service Management Institute Admin and Staffing CN-ICN-ADMIN-21

**Funding Agency:** United States Department of Agriculture

**Role:** Research Liaison

**Date:** 07/01/21 – 06/30/24 (funded)

**Description:** The scope of this project is advise the Executive Director on matters related to research. Specific tasks include reviewing research deliverables; providing reviews of research designs protocols and methodologies; providing guidance on the development of survey instrumentations; and analyzing statistical data and results, findings, and conclusions of research deliverables.

**Amount:** \$66,577

**Title:** Weight Management Program Data Analysis Project.

**Funding Agency:** The Profile at Sanford

**Role:** Principal Investigator

**Date:** 12/12/18 – 12/11/19 (funded)

**Description:** The scope of this project is to provide data analyses and report for weight management intervention program data.

**Amount:** \$13,500

**Title:** Cardiac Rehab Practical Experience Project.

**Funding Agency:** Baptist Memorial Hospital – North Mississippi

**Role:** Principal Investigator

**Date:** 10/01/17 – 9/30/19 (funded)

**Description:** The scope of this project is to provide support for the graduate students from the department of Health, Exercise Science, and Recreation Management to perform and learn services

regarding cardiac rehab at the Baptist Memorial Hospital.

**Amount:** \$12,880

**Title:** Developing an Evaluation Tool toward the Optimal Lower Extremity Prosthesis Prescription (PI: Dr. Jae Shim).

**Funding Agency:** Subaward from University of Maryland (Proposal submitted to CDMRP)

**Role:** MTSU's Principal Investigator

**Date:** Not funded

**Description:** The scope of this project is to provide support for the study design, validation of function assessments, statistical analysis, interpretation of statistical outcomes, and the evaluation of a quantitative tool, CABLES.

**Amount:** \$71,842

**Title:** Role of Common Prosthesis in Physical Function and Health of Lower-Extremity Amputees (PI: Dr. Jae Shim).

**Funding Agency:** Subaward from University of Maryland (Proposal submitted to NIH)

**Role:** MTSU's Principal Investigator

**Date:** Not funded

**Description:** The scope of this project is to provide support for the study design, statistical model development and analysis, interpretation of statistical outcomes, and the development of a clinical evaluation tool, BASEC.

**Amount:** \$61,576

**Title:** Tennessee Cancer Coalition Program Evaluation.

**Funding Agency:** TN Department of Health/Center for Disease Control and Prevention (CDC)

**Role:** Principal Investigator

**Date:** 3/2/15 – 6/30/16

**Description:** The purpose of this project is to develop an evaluation plan, including logic model, based on goals, objectives, and strategies for the Tennessee Cancer Coalition and to provide a program evaluation through interview and survey.

**Amount:** \$34,980

**Title:** Effect of Weight Loss on Bone Health in Postmenopausal Breast Cancer Survivors (PI: Dr. Adetunji Toriola).

**Funding Agency:** Subaward from Washington University School of Medicine in St. Louis (Prime award from NIH)

**Role:** Consultant

**Date:** 10/01/14 – 9/30/15

**Description:** The purpose of this project is to create SAS program code and provide screening and management for physical activity data using accelerometers.

**Amount:** \$1,911

**Title:** Validation of Movement and Activity in Physical Space (MAPS) Scores in Parkinson's disease Patients.

**Funding Agency:** AAHPERD Research Consortium

**Role:** Faculty Mentor

**Date:** 07/01/13 – 5/28/14

**Description:** The purpose of the study is to evaluate the validity and reliability of MAPS scores as

an objective functional measure in Parkinson's disease patients.

**Amount:** \$2,369

**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

- |              |  |
|--------------|--|
| 2017-present | Professor – Department of Health, Exercise Science, and Recreation Management, The University of Mississippi |
| 2014-2017    | Professor – Department of Health and Human Performance, MTSU   |
| 2009-2014    | 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

ES/SRA/PH 511 – Applied Statistics, 2019-present at UM

### 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

HHP 7740 – Meta-Analysis in Human Performance at MTSU

ES 620 – Selected Topics in Exercise Sciences at UM

HK 710 – Meta-Analysis at UM

HK 711 – Measurement Theory and Practice at UM

SA 511 – Applied Statistics at UM

SA 601 – Measurement and Evaluation in Sport at UM

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

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

Michael Hays, Ph.D.,

Impact of personalized feedback on excess adiposity and increased health risks on healthy lifestyle attitudes and behaviors in individuals with Normal Weight Obesity: A Randomized Trial, on-going (dissertation committee member).

Seungho Ryu, Ph.D.,

Psychometric evaluation of memory and concentration section in the standardized assessment of concussion, 2021 (**dissertation committee chair**).

Scott J. Dankel, Ph.D.,

Do individual responses to resistance exercise exist to an extent that can be detected beyond that of measurement error/random biological variability?, 2019 (dissertation committee member).

Heontae Kim, Ph.D.,

Sedentary behavior intervention: Application of contextual information of sedentary behavior, 2018 (**dissertation committee chair**).

James L. Farnsworth, Ph.D.,  
Improving patient-reported outcomes measures for knee function, 2017 (**dissertation committee chair**).

Junbae Mun, Ph.D.,  
Development of a concussion assessment instrument for the South Korean soldiers, 2017 (**dissertation committee chair**).

Linda Bloodworth, Ph.D.,  
Clinical utility of the CARE item set, 2017 (dissertation committee member).

Phillip Davis, Ph.D.,  
Challenge course facilitator performance analysis, Ongoing (dissertation committee member).

Amanda Cole, Ph.D.,  
Eating disorder risk among college students: Measurement and relationships, 2016 (dissertation committee member).

Mitchel Woltring, Ph.D.,  
Examining competitive balance in north American professional sport using Generalizability Theory: A comparison of the big four, 2015 (dissertation committee member).

Youngdeok Kim, Ph.D.,  
Measurement issues in objectively measured sedentary behavior using an Accelerometer, 2014 (**dissertation committee chair**).

Saori Ishikawa, Ph.D.,  
Physical activity, sedentary behavior, and bone health in older women. 2013 (dissertation committee member).

Gregory A. Garrett, M.S.,  
Influence of personal traits, locus of causality, and motivation on exercise adherence, 2013 (thesis committee member).

Anna Rose Anderson, Ph.D.,  
Effect of worksite wellness on physical activity and nutrition. 2012 (dissertation committee member).

Peter Hart, Ph.D.,  
Measurement issues in health-related quality of life assessments in physical activity research, 2012 (**dissertation committee chair**).

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**

- 2020-present Member of the Advisory Committee for the Department of Physical Education at Seoul National University, Korea
- 2019-present Member of the Publications Committee for the SHAPE America
- 2017-2018 Member of the Scientific Program Committee for the 13<sup>th</sup> Measurement and Evaluation Symposium: Youth Fitness Assessment in the 21<sup>st</sup> Century: Issues, Challenges, & Future Directions. Nashville, TN, March, 2018.
- 2016-2017 Member of Research Consortium Writing Award Committee for the SHAPE America
- 2014-2016 Member of the Research Awards Committee for the SHAPE America
- 2014-2016 Member of the Research and Analysis Committee for the American Kinesiology Association (AKA) – Provide Annual Kinesiology Survey data analyses and reports
- 2013 Session presider for “Mediation analysis: Why every researcher should know it?” AAHPERD National Conference, Charlotte, NC.

- 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.
- 2011-2012 Chair of 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.
- 2011-2012 Chair of 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.
- 2010-2012 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
- 2010-2012 Chair of the Advisory Committee for the Measurement and Evaluation Council, AAHPERD
- 2010-2012 Chair of the Executive Committee for the Measurement and Evaluation Council, AAHPERD
- 2010 Session organizer of the Panel discussion: *Measurement and research in 21<sup>st</sup> century*. AAHPERD National Conference, Indiana, IN.
- 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
- 2008-2017 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
- 2007 Session presider for “*Physical Activity and the Built Environment*” AAHPERD National Conference, Baltimore, Maryland.
- 2005 Session presider for “*Clinical trials 101: Randomization in clinical trial*” AAHPERD National Conference, Chicago, Illinois.
- 2004 Session presider for “*Principles and practice of missing data analysis*” AAHPERD National Conference, New Orleans, Louisiana.
- 2003-2006 Member of the Advisory Committee for the Measurement and Evaluation Council, AAHPERD

2003 Session presider for “*Multilevel research: Issues, design, and data analysis*”  
AAHPERD National Conference, Philadelphia, Pennsylvania.

## **B. Editorial Boards**

2021-present Editorial Board, *International Journal of Physical Activity and Health*  
2018-present Associate Editor, *Journal for the Measurement of Physical Behaviour*  
2016-2019 Editorial Board, *Research Quarterly for Exercise and Sport*  
2012-2018 Associate Editor (Measurement and Evaluation), *Research Quarterly for Exercise and Sport*  
2010-2016 Editorial Board, *Measurement in Physical Education and Exercise Science*  
2009-2015 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**

2019-present *Frontiers in Physiology*  
2019-present *Journal of Trainology*  
2019-present *Journal of Global Sport Management*  
2016-present *Journal of Health Psychology*  
2016-present *Obesity Reviews*  
2016-present *Journal of Sports Sciences*  
2014-present *PLOS ONE*  
2013-present *Kinesiology Review*  
2013-present *International Journal of Sport and Exercise Psychology*  
2012-present *Journal of Aging and Physical Activity*  
2012-present *Physiological Measurement*  
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. Grant/Special Invited Reviewer**

- 2021 Research Reviewer for the Institute of Child Nutrition's Applied Research Division's Technical Reports.
- 2021 External Grant Reviewer for Hong Kong Baptist University (HKBU) Faculty Research Grant Program
- 2020 External Program Reviewer, Department of Physical Education, Seoul National University, Korea
- 2020 Review Panel in Motor Behavior & Measurement for the 2021 *SHAPE America Convention Research Program*
- 2019 Review Panel in Motor Behavior & Measurement for the 2020 *SHAPE America Convention Research Program*
- 2017 External Grant Reviewer for Hong Kong Baptist University (HKBU) Faculty Research Grant Program
- 2015 Guest Editor, Special Issue of *Measurement in Physical Education and Exercise Science* on "Sedentary Behavior Measurement"
- 2015 Review Panel in Motor Behavior & Measurement for the 2016 *SHAPE America Convention Research Program*



- 2014 Review Panel in Motor Behavior & Measurement for the 2015 *SHAPE America Convention Research Program*
- 2014 Reviewer for *Social Networks and the Economics of Sports*. New York, NY: Springer
- 2013 Review Panel in Measurement for the *Research Consortium 2014 AAHPERD Convention Program*
- 2013 Grant Reviewer for National Athletic Trainers Association (NATA) Research and Education Foundation General Grant Program
- 2012 Grant Reviewer for National Athletic Trainers Association (NATA) Research and Education Foundation General Grant Program
- 2012 Chair of the Review Panel in Measurement for the *Research Consortium 2013 AAHPERD Convention Program*
- 2012 Review Panel in Measurement for the *Research Consortium 2013 AAHPERD Convention Program*
- 2012 Review Panel in Measurement and Methods Track for the 2013 *Society of Behavioral Medicine*
- 2011 Review Panel in Measurement for the *Research Consortium 2012 AAHPERD Convention Program*
- 2011 Review Panel in Measurement and Methods Track for the 2012 *Society of Behavioral Medicine*
- 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*
- 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 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*

**E. Consultations**

- 2020-present Consultant for the Institute of Child Nutrition Applied Research Division, UM
- 2018-present Director of Analytics Laboratory, SAS, UM
- 2009-2017 Director for the Measurement and Statistical Consulting Service from the Kinesmetrics Laboratory, MTSU
- 2008-2017 Psychometric consultant for the Center for Sports Policy and Research, MTSU
- 2008-2017 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

**F. University Activities and Committee Work**

**The University of Mississippi**

- 2021-present MS in Sport Analytics Program Director, Department of Health, Exercise Science, and Recreation Management, UM
- 2020-2021 Member of Athletic Training Program Director Search Committee, School of Applied Science, UM
- 2020-2021 Member of Athletic Training Clinical Education Coordinator Search Committee, School of Applied Science, UM
- 2020 Member of University of Mississippi Certified COVID-19 Contact Tracing Team, UM
- 2019-2020 Member of Research Associate Search Committee, Center for Research Evaluation, UM

- 2019-2020 Member of Data Analyst Search Committee, Institute of Child Nutrition, UM
- 2019-present Member of Department Chairs Council, UM
- 2018-2019 Chair of Legal Studies Chair Search Committee, School of Applied Science, UM
- 2018-present Director of Analytics Laboratory, SAS, UM
- 2018 Member of Dean Search Committee, School of Applied Science, UM
- 2017-present Member of Interdisciplinary Certificate of Applied Statistics, UM
- 2017-present Member of Curriculum Committee, School of Applied Science (SAS), UM
- 2017-2019 Member of Tenure & Promotion Committee, SAS, UM
- 2017-present Chair of Department of Health, Exercise Science, and Recreation Management (HESRM), UM
- 2017-present Director of Health and Sport Analytics Lab, HESRM, UM

**Middle Tennessee State University**

- 2017 Kinesmetrics Annual Statistics Workshop Series V at MTSU (February 15 – February 29, 2017) - Topic - “*Nonparametrics Statistics*”: A professional lecture provided to the graduate students and faculty members at MTSU.
- 2016-2017 Member of Vice Provost for Research and Dean of Graduate Studies Search Committee, MTSU
- 2016 Kinesmetrics Annual Statistics Workshop Series IV at MTSU (March. 1. – March. 29. 2016) - Topic - “*How to Analyze Large Datasets? Data Mining Techniques*”: A professional lecture provided to the graduate students and faculty members at MTSU.
- 2015-2016 Member of Leisure and Sports Management Search Committee, Department of Health and Human Performance, MTSU
- 2015 Kinesmetrics Annual Statistics Workshop Series III at MTSU (August. 14. 2015) - Topic - “*Power Analysis and Sample Size*”: A professional lecture provided to the graduate students and faculty members at MTSU.
- 2014-2016 Graduate Director, Department of Health and Human Performance, MTSU

- 2014 Member of Leisure, Sport, and Tourism Studies Search Committee, Department of Health and Human Performance, MTSU
- 2014 Kinesmetrics Annual Statistics Workshop Series II at MTSU (Jul. 18. 2014) - Topic - "***SPSS Syntax***": A professional lecture provided to the graduate students and faculty members at MTSU.
- 2013-2015 Member of Non-Instructional Assignment Committee
- 2013-2014 Chair of Health and Human Performance Search Committee, Department of Health and Human Performance, MTSU
- 2013 Kinesmetrics Annual Statistics Workshop Series I at MTSU (Jul. 19. 2013) - Topic - "***Principle Component Analysis and Exploratory Factor Analysis***": A professional lecture provided to the graduate students and faculty members at MTSU.
- 2011-2012 Member of Ph.D. Program Review Committee, Department of Health and Human Performance, MTSU
- 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
- 2008-2017 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
- 2007-2017 Member of Doctoral Faculty, MTSU
- 2007-2009 Member of Instructional Technologies and Development Committee, MTSU
- 2006-2017 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