

Curriculum Vitae

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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 Director – MS in Sport Analytics Program, Department of Health, Exercise Science, and Recreation Management, The University of Mississippi
- 2018-present Director – Health and Sport Analytics Lab, Department of Health, Exercise Science, and Recreation Management, The University of Mississippi
- 2018-2022 Director – Analytics Lab, School of Applied Sciences, The University of Mississippi
- 2017-2022 Chair – Department of Health, Exercise Science, and Recreation Management, The University of Mississippi
- 2017-present 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,” <i>Research Quarterly for Exercise and Sport</i>
2009	“Reviewer of the Year Award,” <i>Measurement in Physical Education and Exercise Science</i>
2009	“Clint Thompson Award for Clinical Advancement,” The 2008 Outstanding Manuscript Award,” <i>Journal of Athletic Training</i>
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

Python – Data 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
2020	HIPAA/Healthcare Security Training Certificate, The University of Mississippi

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. (2022). Hypothesized mechanisms of cognitive impairment during high-intensity acute exercise. In Rezaei, N (Ed.), *Brain, Decision Making and Mental Health*. Springer International Publishing. doi: 10.1007/978-3-031-15959-6_14

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-Vašková (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 (145 [1 in press] articles)

* indicates a paper written in Korean

Lee, S., Kim, K. R., & **Kang, M.** (in press). The importance of an organization's reputation: The application of Rasch Model to the Organizational Reputation Questionnaire for sports fans. *International Journal of Sport Communication*,

Goswami, S., Barnard, M., Bynum, L. A., Thompson, S., & **Kang, M.** (2022). Psychometric Evaluation of the Health Care Provider HIV/AIDS Stigma Scale (HPASS) using Rasch Analysis. *Currents in Pharmacy Teaching and Learning*, 14(9), 1143-1153. doi: 10.1016/j.cptl.2022.07.035

Wijayatunga, N., Kim, H., Hays, H. M., & **Kang, M.** (2022). Objectively measured physical activity is lower in individuals with normal weight obesity in the United States. *International Journal of Environmental Research and Public Health*, 19, 11747. doi.org/10.3390/ijerph191811747.

Jung, M., Kim, H., Loprinzi, P. D., Ryu, S., & **Kang, M.** (2022). Age-varying association between depression and cognitive function among a national sample of older U.S. immigrant adults: The potential moderating role of physical activity. *Aging & Mental Health*, 28, 1-10. doi: 10.1080/13607863.2022.2056139.

- Loprinzi, P. D., Javadi, A., Jung, M., Watson, H., Sanderson, C., **Kang, M.**, & Kelemen, W. L. (2022). Vigorous-intensity acute exercise during encoding can reduce levels of episodic and false memory, *Memory*, 30(8), 1031-1045. doi: 10.1080/09658211.2022.2072895.
- Moore, D., Jung, M., Hillman, C. H., **Kang, M.**, & Loprinzi, P.D. (2022). Interrelationships between exercise, functional connectivity, and cognition among healthy adults: A systematic review. *Psychophysiology*, 59, e14014. <https://doi.org/10.1111/psyp.14014>.
- Lee, S., & **Kang, M.** (2022). Trend analysis of physical activity measurement research using text mining in big data analytics, *International Journal of Physical Activity and Health*, 1(1), Article 5.
- Papini, N., Jung, M., Cook, A., Lopez, N. V., Ptomey, L. T., Herrmann, S., & **Kang, M.** (2022). Psychometric properties of the 26-item Eating Attitudes Test (EAT-26): An application of Rasch analysis. *Journal of Eating Disorders*, 10(1), 62. <https://doi.org/10.1186/s40337-022-00580-3>.
- Son, J. W., Lee, S., **Kang, M.**, Shin, Y. A., & Kim, J. H. (2022). Optimal frequency intensity of physical activity to reduce the risk of hypertension in the Korean population. *Exercise Science*, 31(1), 129-140.
- Kim, H., **Kang, M.**, & Kim, M. (2022). Rasch calibration and optimal categorization of the sport fandom questionnaire. *International Journal of Sports Marketing and Sponsorship*, 23, 75-92.
- Jung, M., Frith, E., **Kang, M.**, & Loprinzi, P.D. (2022). Effects of acute exercise on verbal, mathematical, and spatial insight creativity. *Journal of Science in Sport and Exercise*. <https://doi.org/10.1007/s42978-021-00158-6>.
- Jung, M., Ryu, S., **Kang, M.**, Javadi, A. H., & Loprinzi, P.D. (2022). Evaluation of the transient hypofrontality theory in the context of exercise: A systematic review with meta-analysis. *Quarterly Journal of Experimental Psychology*, 75(7), 1193-1214. <https://doi.org/10.1177/17470218211048807>.
- Jung, M., **Kang, M.**, Blough, J. & Loprinzi, P.D. (2022). 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*, 4(1), 12-20. doi.org/10.1007/s42978-021-00121-5
- Jung, M., Kim, H., Loprinzi, P. D., & **Kang, M.** (2022). Association among length of residence, physical activity, and obesity in U.S. immigrants: A regression-based mediation analysis. *American Journal of Human Biology*, 34(1):e23576. doi: 10.1002/ajhb.23576.
- Kang, M.**, Kim, H., & Kim, M. (2021). 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*, 21, 172-189.

- Spitz, R. W., Dankel, S. J., Bell, Z. W., Wong, V., Abe, T., **Kang, M.**, & Loenneke, J. P. (2021). Blocking the Activin IIB receptor with Bimagrumab (BYM33) increases walking performance: A meta-analysis. *Geriatrics & Gerontology International*, 21(10), 939-943.
- 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., 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.
- 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*, 26, 1-20. 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 StrongTM: 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 arthrogryposis. *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.**, Frayssé, 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.
- Kim, Y., Park, I., & **Kang, M.** (2013). Convergent validity of International Physical Activity Questionnaire (IPAQ): Meta-analysis. *Public Health Nutrition*, 16(3), 440-452.

- Herrmann, S. D., Barreira, T. V., **Kang, M.**, & Ainsworth, B. E. (2013). How many hours are enough? Accelerometer wear time may provide bias in daily activity estimates. *Journal of Physical Activity and Health*, 10, 742-749.
- Kim, Y., Conners, R. T., Hart, P. D., Kang, Y., & **Kang, M.** (2013). Association of physical activity and body mass index with metabolic syndrome among US adolescents with disabilities. *Disability and Health Journal*, 6(3), 235-259.
- Anshel, M. H., **Kang, M.**, & Jubenville, C. B. (2013). Sources of acute sport stress scale for sports officials: Rasch calibration. *Psychology of Sport & Exercise*, 14, 362-370.
- Rowe, D. A., **Kang, M.**, Sutherland, R., Holbrook, E. A., & Barreira, T. V. (2013). Evaluation of inactive adults' ability to maintain a moderate-intensity walking pace. *Journal of Science and Medicine in Sport*, 16, 217-221.
- Barreira, T. V., Renfrow, M. S., Tseh, W., & **Kang, M.** (2013). The validity of 7-site skinfold measurements taken by exercise science students. *International Journal of Exercise Science*, 6(1), 20-28.
- Alstot, A. E., **Kang, M.**, & Alstot, C. D. (2013). Effects of interventions based in behavior analysis on motor skill acquisition: A meta-analysis. *The Physical Educator*, 70, 155-186.
- Brinthaup, T. M., **Kang, M.**, & Anshel, M. H. (2013). Changes in exercise commitment following a values-based wellness program. *Journal of Sport Behavior*, 36(1), 3-22.
- Ishikawa, S., **Kang, M.**, Bjornson, K. F., & Song, K. (2013). Reliably measuring ambulatory activity levels of children and youth with cerebral palsy. *Archives of Physical Medicine and Rehabilitation*, 94(1), 132-137.
- Holbrook, E. A., **Kang, M.**, & Morgan, D. W. (2013). Acquiring a stable estimate of physical activity in adults with visual impairment. *Adaptive Physical Activity Quarterly*, 30, 59-69.
- Kang, M.**, Hart, P. D., & Kim, Y. (2012). Establishing a threshold for the number of missing days using 7-day pedometer data. *Physiological Measurement*, 33, 1877-1885.
- Kim, Y., Park, I., & **Kang, M.** (2012). Examining rater effects of the TGMD-2 on children with intellectual disability. *Adaptive Physical Activity Quarterly*, 29, 346-365.
- Kang, M.**, Bassett, D. R., Tudor-Locke, C., Barreira, T. V., & Ainsworth, B. (2012). Measurement effects of seasonal and monthly variability on pedometer-determined data. *Journal of Physical Activity & Health*, 9(3), 336-343.
- Ishikawa, S., Stevens, S. L., **Kang, M.**, & Morgan, D. W. (2011). Reliability of daily step activity monitoring in adults with incomplete spinal cord injury. *Journal of Rehabilitation Research and Development*, 48(10), 1187-1194.
- Holbrook, E. A., Stevens, S. L., **Kang, M.**, & Morgan, D. W. (2011). Validation of a talking pedometer for adults with visual impairment. *Medicine and Science in Sports and Exercise*, 43(6), 1094-1099.

- Herrmann, S. D., Snook, E. M., **Kang, M.**, Scott, C. B., Mack, M. G., Dompier, T. P., & Ragan, B. G. (2011). Development and validation of a movement and activity in physical space (MAPS) score as a functional outcome measure. *Archives of Physical Medicine and Rehabilitation*, 92, 1652-1658.
- Owusu, A., Hart, P. D., Oliver, B., & **Kang, M.** (2011). The association between bullying and psychological health among senior high school students in Ghana, West-Africa. *Journal of School Health*, 81(5), 231-238.
- Anshel, M. H., **Kang, M.**, & Brinthaup, T. M. (2010). A values-based approach for changing exercise and dietary habits: An action study. *International Journal of Sport and Exercise Psychology*, 8, 413-432.
- Anshel, M. H., Brinthaup, T. M., & **Kang, M.** (2010). The disconnected values model improves mental well-being and fitness in an employee wellness program. *Behavioral Medicine*, 36(4), 113-122.
- Hart, P. D., Barreira, T. A., & **Kang, M.** (2010). Correlates and predictors of physical inactivity among Tennessee adults. *Tennessee Medicine*, 103(9), 41-44.
- Anshel, M. H., **Kang, M.**, & Miesner, M. (2010). The approach-avoidance framework for identifying athletes' coping style as a function of gender and race. *Scandinavian Journal of Psychology*, 51, 341-349.
- Brinthaup, T. M., **Kang, M.**, & Anshel, M. H. (2010). A delivery model for overcoming psycho-behavioral barriers to exercise. *Psychology of Sport & Exercise*, 11, 259-266.
- Martinez, J. M., Stinson, J. L., **Kang, M.**, & Jubenville, C. B. (2010). Intercollegiate athletics and institutional fundraising: A meta-analysis. *Sport Marketing Quarterly*, 19(1), 36-47.
- Barreira, T. V., Rowe, D. A., & **Kang, M.** (2010). Parameters of walking and jogging in healthy young adults. *International Journal of Exercise Science*, 3(1), 4-13.
- Ragan, B. G., Herrmann, S. D., **Kang, M.**, & Mack, M. G. (2009). Psychometric evaluation of the Standardized Assessment of Concussion: Evaluation of baseline score validity using item analysis. *Athletic Training & Sports Health Care*, 1(4), 180-187.
- Kang, M.**, Bassett, D. R., Tudor-Locke, C., Barreira, T. V., Ainsworth, B., Reis, J. P., Strath, S., & Swartz, A. (2009). How many days are enough? A study of 365 days of pedometer monitoring. *Research Quarterly for Exercise and Sport*, 80(3), 445-453. (*Selected as Research Consortium's 2010 Research Writing Award*).
- Kang, M.**, Marshall, S. J., Barreira, T. V., & Lee, J. O. (2009). Effect of pedometer-based physical activity interventions: A meta-analysis. *Research Quarterly for Exercise and Sport*, 80(3), 648-655.
- Aquadro, M. A., Cunningham, P. H., **Kang, M.**, & Slaughter-Ellis, C. (2009). Effect of a leisure education intervention on anxiety levels of individuals participating in a smoking cessation program. *American Therapeutic Recreation Association Annual*, 18, 53-65.

- Kang, M.**, Rowe, D. A., Barreira, T. V., Robinson, T. S., & Mahar, M. T. (2009). Individual information-centered approach for handling physical activity missing data. *Research Quarterly for Exercise and Sport*, 80(2), 131-137.
- Kang, M.**, & Brinthaup, T. M. (2009). Effects of group- and individual-based step goals on children's physical activity levels in school. *Pediatric Exercise Science*, 21, 148-158.
- Palevo, G., Keteyian, S. J., **Kang, M.**, & Caputo, J. L. (2009). Resistance exercise training improves heart function and physical fitness in stable patients with heart failure. *Journal of Cardiopulmonary Rehabilitation and Prevention*, 29(5), 294-298.
- Holbrook, E. A., Barreira, T. V., & **Kang, M.** (2009). Validity and reliability of Omron pedometers for prescribed and self-paced walking. *Medicine and Science in Sports and Exercise*, 41(3), 669-673.
- *An, Y. D., Won, Y. D., **Kang, M.**, & Shin, J. H. (2009). Testing a basic assumption for self-report physical activity questionnaire. *Korean Journal of Measurement and Evaluation in Physical Education and Sports Science*, 11(3), 1-12.
- Barreira, T. V., **Kang, M.**, Caputo, J. L., Farley, R. S., & Renfrow, M. S. (2009). Validation of the Actiheart monitor for the measurement of physical activity. *International Journal of Exercise Science*, 2(1), 60-71.
- Anshel, M. H., Weatherby, N. L., **Kang, M.**, & Watson, T. (2009). Rasch calibration of a unidimensional perfectionism inventory for sport. *Psychology of Sport & Exercise*, 10, 210-216.
- Davis, K. L., **Kang, M.**, Boswell, B. B., DuBose, K. D., Altman, S., & Binkley, H. (2008). Validity and reliability of the medicine ball throw for kindergarten children. *Journal of Strength and Conditioning Research*, 22, 1958-1963.
- Tudor-Locke, C., Hatano, Y., Pangrazi, R. P., & **Kang, M.** (2008). Re-visiting "How many steps are enough?" *Medicine and Science in Sports and Exercise*, 40(7), S537-S543.
- Kang, M.**, Ragan, B. G., & Park, J. H. (2008). Issues in outcome research: An overview of randomization techniques for clinical trials. *Journal of Athletic Training*, 43(2), 215-221. (*Selected as the 2008 Outstanding Research Manuscript Award*).
- Anshel, M. H., & **Kang, M.** (2008). Effectiveness of motivational interviewing on changes in fitness, blood lipids, and exercise adherence of police officers: An outcome-based action study. *Journal of Correctional Health Care*, 14, 48-62.
- Anshel, M. H., & **Kang, M.** (2007). An outcome-based action study on changes in fitness, blood lipids, and exercise adherence, using the disconnected values (intervention) model. *Behavioral Medicine*, 33, 85-100.
- Anshel, M. H., & **Kang, M.** (2007). Effect of an intervention on replacing negative habits with positive routines for improving full engagement at work: A test of the disconnected values model. *Consulting Psychology Journal: Practice and Research*, 59(2), 110-125.

- *Park, J. H., Kim, H. J., Shin, B. C., Kim, D. Y., & **Kang, M.** (2007). Overview of physical fitness testing among nations. *Korean Journal of Physical Education*, 46(5), 565-580.
- Kang, M.**, Zhu, W., Ragan, B. G., & Frogley, M. (2007). Exercise barrier severity and perseverance of active youth with physical disabilities. *Rehabilitation Psychology*, 52(2), 170-176.
- Ragan, B. G., & **Kang, M.** (2007). Measurement issues in concussion testing. *Athletic Therapy Today*, 12(5), 2-6.
- Lee, J. O., **Kang, M.**, & Shin, J. H. (2007). Effect of interactive pedometer with new algorithm on 10,000 step goal attainments. *Key Engineering Materials*, 345-346, 873-876.
- *Lee, J. O., Kang, S. J., & **Kang, M.** (2007). Testing basic assumption of direct observation for estimating energy expenditure in walking. *Journal of Korean Physical Education Association for Girls and Women*, 21(2), 31-38.
- *Lee, J. O., Kang, S. J., & **Kang, M.** (2007). Estimation of hourly physical activity pattern in sedentary working women using pedometer. *Korean Journal of Measurement and Evaluation in Physical Education and Sports Science*, 9(1), 47-59.
- Weatherby, N. L., **Kang, M.**, Shapshak, P., Chiappelli, F., & McCoy, C. B. (2006). Screening women for Human Immunodeficiency Virus (HIV) infection using self-reported symptoms: A classification tree analysis. *Korean Journal of Measurement and Evaluation in Physical Education and Sports Science*, 8(1), 1-17.
- Kang, S. J., & **Kang, M.** (2006). Rasch calibration of perceived weights of different sport games. *Measurement in Physical Education and Exercise Science*, 10, 51-66.
- Kang, M.**, Zhu, W., Tudor-Locke, C., & Ainsworth, B. (2005). Experimental determination of effectiveness of an individual information-centered approach in recovering step-count missing data. *Measurement in Physical Education and Exercise Science*, 9, 233-250.
- Ragan, B. G., & **Kang, M.** (2005). Current issues and concerns of reliability. *Athletic Therapy Today*, 10(6), 35-38.
- Ragan, B. G., & **Kang, M.** (2005). Construction of a classification/decision tree. *Korean Journal of Measurement and Evaluation in Physical Education and Sports Science*, 7(1), 61-75.
- *Lee, J. O., Kang, S. J., Park, J. H., & **Kang, M.** (2005). The problem of missing value and techniques for handling missing data in sport science research. *Korean Journal of Measurement and Evaluation in Physical Education and Sports Science*, 7(1), 45-59.
- *Park, J. H., **Kang, M.**, Lee, M., Kim, H. J., & Kang, S. J. (2005). Development of a compendium of physical activities in Korean version and computer software for physical activity records. *Korean Journal of Physical Education*, 44(2), 385-404.
- *Park, J. H., **Kang, M.**, Lee, J. O., & Kang, S. J. (2005). Handling missing data: What is the most effective method? *Korean Journal of Physical Education*, 44(1), 385-398.

Kang, M., Park, J. H., & Kim, H. J. (2004). An overview of physical activity assessments. *Korean Journal of Measurement and Evaluation in Physical Education and Sports Science*, 6(2), 35-54.

Kang, M., Graber, K. C., & Ragan, B. G. (2003). Future physical educators' perceptions on grading standards: A qualitative analysis. *Korean Journal of Measurement and Evaluation in Physical Education and Sports Science*, 5(1), 17-28.

D. Other Journal Articles Published (6 articles)

* indicates a paper written in Korean

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.
Doi.org/10.1155/2019/2470581

Rowe, D. A., & **Kang, M.** (2015). "Don't just sit around – do something": The measurement of sedentary behavior. Special Issue Editorial. *Measurement in Physical Education and Exercise Science*, 19(3), 103-104.

Alstot, A. E., & **Kang, M.** (2010). Effects of behavior analysis interventions on skill acquisition: A meta-analysis. *Research Quarterly for Exercise and Sport*, 81 (Suppl 1), A-xviii-A-xx. *(Selected as the 2010 Research Consortium's Graduate Student Research Award).*

Kang, M., Holbrook, E. A., & Barreira, T. V. (2009). Validity and reliability of Omron pedometers at slow walking speeds: Response (Letter to the Editor-in-Chief). *Medicine and Science in Sports and Exercise*, 41(9), 1826-1828.

*Park, J. H., **Kang, M.,** & Kim, H. J. (2004). Computerized automatic scoring system for physical activity records, logs, and questionnaires. In *2004 International Sport Science Congress* (pp. 609-615). Daejeon, Korea: KAHPERD.

Kang, M., & Zhu, W. (2003). Current issues with missing data methods in physical activity research. *2003 Daegu Universiade Conference Proceedings: Facing the Challenge* (pp. 610-616). Daegu, Korea: 2003 Daegu Universiade Conference Organizing Committee.

III. RESEARCH: PRESENTATIONS

A. Refereed Presentations (248 presentations)

Jung, M., **Kang, M.,** & Loprinzi, P. (November, 2022). Hemodynamic and psychological mechanisms of cognitive impairment during exercise. Paper to be presented at the Psychonomic Society national conference. Boston, MA.

- Jung, M., **Kang, M.**, & Loprinzi, P. (June, 2022). The effects of high-intensity acute exercise on true and false memory. Paper presented at the ACSM national conference. *Medicine & Science in Sports & Exercise*, 54(9S):62.
- Lee, S., Jung, M., & **Kang, M.** (June, 2022). Age-varying association between physical activity and health-related quality of life among U.S. adults. Paper presented at the ACSM national conference. *Medicine & Science in Sports & Exercise*, 54(9S):573.
- Goswami, S., Barnard, M., Bynum, L. A., Thompson, S., & **Kang, M.** (May, 2022). Psychometric evaluation of the health care provider HIV/AIDS stigma scale (HPASS) using Rasch analysis. Paper presented at the International Society for Pharmacoeconomics and Outcomes national conference.
- Lee, S., **Kang, M.**, & Park, J. H. (March, 2022). Trend analysis of scholarly research in RQES using topic modeling. Paper presented at the SHAPE America national conference. *Research Quarterly for Exercise and Sport*, 93 (Suppl 1), A17.
- Lee, K., & **Kang, M.** (March, 2022). Trend analysis of physical activity measurement research using text mining. Paper presented at the SHAPE America national conference. *Research Quarterly for Exercise and Sport*, 93 (Suppl 1), A17-A18.
- 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 presented at The Obesity Society ObesityWeek Interactive conference.
- Papini, N. M., **Kang, M.**, Jung, M., Lopez, N. V., & Herrmann, S. D. (November, 2021). The development and psychometric evaluation of the 18-Item Health Resilience Profile. Paper presented at the The Obesity Society/Obesity Week 2021. *Obesity*, 2021;29(suppl 2):172-173.
- Ryu, S., Jung, M., & **Kang, M.** (June, 2021). Psychometric evaluation of memory section in the Standardized Assessment of Concussion from the SCAT5. Paper presented at the ACSM national conference. *Medicine & Science in Sports & Exercise*, 53(8S):378-379. 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 presented at the ACSM national conference. *Medicine & Science in Sports & Exercise*, 53(8S):182-183. 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*, 92 (Suppl 1), A-34. Online due to COVID-19.
- Erwin, H., Brusseau, T.A., Carson, R., Hodge, S., & **Kang, M.** (April, 2021). Professional development for researchers: The RQES research agenda white papers (Physical activity research agenda). Paper presented at the SHAPE America national conference. *Research Quarterly for Exercise and Sport*, 92 (Suppl 1), A-11. 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*, 92 (Suppl 1), A-60. 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*, 92 (Suppl 1), A-35-A-36. Online due to COVID-19.
- Papini, N. M., Jung, M., Cook, A., Lopez, N. V., Herrmann 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*, 91 (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*, 91 (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., Griesse, 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 67th 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 66th 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 65th 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 (ISBPA) 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 64th 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 64th 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 arthrogryposis 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., Connors, 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 3DPAR 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, VO2max, 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., Brinthaupt, 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 18th 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.
- Erickson, 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 (49 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 22nd 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 13th 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 21st 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 6th annual meeting. Seattle, Washington.
- Kang, M.** (May, 2008). Current research topics in measuring physical activity. Invited lecture presented at Korea National Sport University, Seoul, Korea.
- Kang, M.** (May, 2008). Current research topics in measuring physical activity. Invited lecture presented at Yongin University, Yongin, Korea.
- Kang, M.** (May, 2008). Research synthesis: Meta-analysis. Invited lecture presented at Sangmyung University, Seoul, Korea.
- Kang, M.** (May, 2008). Test construction. Invited lecture presented at Sangmyung University, Seoul, Korea.
- Kang, M.** (May, 2008). Measurement issues in assessing physical activity. Invited lecture presented at Wonkwang University, Iksan, Korea.
- Kang, M.** (May, 2008). Measurement issues in assessing physical activity. Invited lecture presented at Woosuk University, Jeonju, Korea.
- Kang, M.** (February, 2008). Let's take some steps. Invited presentation at the State Farm Employee Wellness Program. Institute of Agriculture: The University of Tennessee, Extension. Murfreesboro, Tennessee.
- Kang, M.** (August, 2006). Measuring agreement among raters: Categorical data. Invited presentation at the Web Conference, "Current Issues and Challenges in Kinesmetrics Series," International Society of Kinesmetrics (using web communication system).
- Kang, M.** (May, 2006). Test validation: Application of Rach model. Invited presentation at the Web Conference, "Current Issues and Challenges in Kinesmetrics Series," International Society of Kinesmetrics (using web communication system).

Kang, M. (October, 2005). Measurement issues in steps per day guideline. Invited presentation at the Walking for Health: Measurement and Research, Issues and Challenges Conference. Urbana, Illinois.

IV. RESEARCH: GRANTS/CONTRACTS

(Received 28 research grants or contracts [Total=\$775,051])

Title: Course Sequencing in Mississippi's Public Education System: Trends, Challenges and Equity Considerations

Funding Agency: Institute of Education Sciences (Mason, PI)

Role: Senior Project Personnel

Proposed Date: Pending

Description: The purpose of the proposal is to partner with a state education agency to use State Longitudinal Data System (the Mississippi Student Information System) to address a question of relevance to decision making for the state agency. My role as a senior project personnel will help design, data analysis, and interpretation of results.

Amount: \$994,081

Title: Scale construction and validation: Assessing invisibility and hypervisibility in multiethnic samples of undergraduate women in STEM

Funding Agency: National Science Foundation (Wellman, PI)

Role: Co-PI

Proposed Date: Pending

Description: The first goal of the proposed research is to develop valid and reliable measures of experiences of invisibility and hypervisibility among a diverse group of undergraduate women majoring in STEM. The second goal is to examine the relationships between invisibility, hypervisibility, and STEM outcomes (e.g., persistence in the major, major GPA).

Amount: \$255,457

Title: Evaluation of the Bridging the Barriers Initiative Project

Funding Agency: University of Texas-Austin (Mason, PI)

Role: Consultant

Proposed Date: 10/01/21-9/30/23

Description: The proposed evaluation is both formative and summative in nature and is designed to directly inform ongoing programmatic decisions and strategic planning, while also contributing to broader knowledge-building with respect to supporting interdisciplinary collaboration at higher education institutions.

Amount: \$198,936

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

Funding Agency: United States Department of Agriculture (Hall-Campbell, PI)

Role: Research Liaison

Date: 07/01/21 – 06/30/24

Description: The scope of this project is to 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

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

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 (4th 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

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

ES 351 – Measurement and Statistics in Exercise Science, 2022-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
SA 693 – Sport Analytics Capstone at UM

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

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

Myungjin Jung, Ph.D.,
Effects and mechanisms of cognitive impairment during vigorous-intensity exercise, on-going
(**dissertation committee chair**).

Irene Nsiah, Ph.D.,
Evaluation of quality ratings in healthcare: Is there evidence of disparities in their applications?,
on-going (dissertation committee member).

Swarnali Goswami, Ph.D.,
Willingness to use HIV Pre-Exposure Prophylaxis (PREP) and preferences from a pharmacy-based
PREP program among men who have sex with men in the United States, on-going (dissertation
committee member).

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).

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 th Measurement and Evaluation Symposium: Youth Fitness Assessment in the 21 st 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 <i>Sports Analyst Education Program</i> , 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 th 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 th 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 st 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 “ <i>Physical Activity and the Built Environment</i> ” AAHPERD National Conference, Baltimore, Maryland.
2005	Session presider for “ <i>Clinical trials 101: Randomization in clinical trial</i> ” AAHPERD National Conference, Chicago, Illinois.
2004	Session presider for “ <i>Principles and practice of missing data analysis</i> ” 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

2022-present Editorial Board, *Measurement in Physical Education and Exercise Science*
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

2022 Guest Editor, Special Issue of *Measurement in Physical Education and Exercise Science* on “Refining the FitnessGram with criterion-referenced standards for musculoskeletal fitness”

2022 Review Panel in Measurement & Evaluation for the 2023 *SHAPE America Convention Research Program*

2022 Research Reviewer for the Institute of Child Nutrition’s Applied Research Division’s Technical Reports.

2021 Review Panel in Measurement & Evaluation for the 2022 *SHAPE America Convention Research Program*

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 <i>SHAPE America Convention Research Program</i>
2019	Review Panel in Motor Behavior & Measurement for the 2020 <i>SHAPE America Convention Research Program</i>
2017	External Grant Reviewer for Hong Kong Baptist University (HKBU) Faculty Research Grant Program
2015	Guest Editor, Special Issue of <i>Measurement in Physical Education and Exercise Science</i> on “Sedentary Behavior Measurement”
2015	Review Panel in Motor Behavior & Measurement for the 2016 <i>SHAPE America Convention Research Program</i>
2014	Review Panel in Motor Behavior & Measurement for the 2015 <i>SHAPE America Convention Research Program</i>
2014	Reviewer for <i>Social Networks and the Economics of Sports</i> . New York, NY: Springer
2013	Review Panel in Measurement for the <i>Research Consortium 2014 AAHPERD Convention Program</i>
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 <i>Research Consortium 2013 AAHPERD Convention Program</i>
2012	Review Panel in Measurement for the <i>Research Consortium 2013 AAHPERD Convention Program</i>
2012	Review Panel in Measurement and Methods Track for the 2013 <i>Society of Behavioral Medicine</i>
2011	Review Panel in Measurement for the <i>Research Consortium 2012 AAHPERD Convention Program</i>
2011	Review Panel in Measurement and Methods Track for the 2012 <i>Society of Behavioral Medicine</i>
2010	Review Panel in Measurement for the <i>Research Consortium 2011 AAHPERD Convention Program</i>
2010	Review Panel in Measurement and Methods Track for the 2011 <i>Society of Behavioral Medicine</i>

2009	Chair of the Review Panel in Measurement for the <i>Research Consortium 2010 AAHPERD Convention Program</i>
2009	Review Panel in Measurement for the <i>Research Consortium 2010 AAHPERD Convention Program</i>
2009	Review Panel in Measurement and Methods Track for the <i>2010 Society of Behavioral Medicine</i>
2008	Review Panel in Measurement for the <i>Research Consortium 2009 AAHPERD Convention Program</i>
2008	Review Panel in Measurement and Methods Track for the <i>2009 Society of Behavioral Medicine</i>
2007	Review Panel in Measurement for the <i>Research Consortium 2008 AAHPERD Convention Program</i>
2006	Review Panel in Measurement for the <i>Research Consortium 2007 AAHPERD Convention Program</i>

E. Consultations

2020-present	Research liaison (Research consultant) for the Institute of Child Nutrition Applied Research Division, UM
2018-2022	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 <i>Journal of Sport Administration & Supervision</i>
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

2022	Member of Marketing Director Search Committee, Division of Outreach, UM
2021-present	Member of Sabbatical Leave Review Committee, Chancellor's Standing Committees, UM
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
2019-2022	Member of Department Chairs Council, UM
2018-2019	Chair of Legal Studies Chair Search Committee, School of Applied Science, UM
2018-2022	Director of Applied Sciences Analytics Laboratory, SAS, UM
2018	Member of Dean Search Committee, School of Applied Science, UM
2017-present	Member of Graduate Minor in Applied Statistics, UM
2017-2022	Member of Curriculum Committee, School of Applied Science (SAS), UM
2017-2019	Member of Tenure & Promotion Committee, SAS, UM
2017-2022	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