

CURRICULUM VITAE
GEORGE A. KING, Ph.D.
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EDUCATION

<u>Doctorate of Philosophy</u> – <i>The University of Tennessee - Knoxville, TN</i>	2001
<u>Master of Science</u> – <i>Colorado State University - Fort Collins, CO</i>	1996
<u>Bachelors of Science</u> – <i>Colorado State University - Fort Collins, CO</i>	1994

RELATED EXPERIENCE

2001 –	The University of Texas - El Paso, TX <u>Department of Kinesiology</u> <i>Interim Chair – 2011 - 2012</i> <i>Associate Professor – 2007 - present</i> <i>Assistant Professor – 2001 - 2007</i> <i>Director: Metabolism, Nutrition, & Exercise Research (MiNER) Laboratory – 2011 - present</i> <i>Human Performance Laboratory – 2001 - 2011</i> <i>Graduate Coordinator – 2006 – 2011</i> <u>College of Health Sciences</u> <i>Associate Dean – 2012 - present</i>
2010 –	Texas Tech University Health Sciences Center Paul L. Foster School of Medicine Department of Family & Community Medicine Sports Medicine Fellowship Program <i>Adjunct Faculty</i>
1997 – 2000	The University of Tennessee - Knoxville, TN Department of Exercise Science & Sport Management <i>Graduate Teaching Associate</i>
1994 – 1996	Colorado State University - Fort Collins, CO Department of Exercise and Sport Science <i>Instructor - Physical Education (1 Semester)</i> <i>Graduate Teaching Assistant, and Assistant Supervisor, Adult Fitness Program</i>

SCHOLARSHIP ACTIVITIES

AREAS OF INTEREST

Issues Related to Body Composition; Hormonal Responses to Exercise; Energy Cost of Daily Activity; Occupational and Leisure-time Physical Activity Related to Cardiovascular Disease Risk; Implications for Lactate Threshold Applied to Exercise Training; Bone Health; Built Environment and Health

REFEREED PUBLICATIONS

Dorgo, S, **GA King**, JO Bader, & JS Limon. Outcomes of a Peer Mentor Implemented Fitness Program in Older Adults: A Quasi-Randomized Controlled Trial. **International Journal of Nursing Studies**, 50:1156-1165, 2013.

de Castro, JM, **GA King**, M Duarte-Gardea, S Gonzalez-Ayala, & CH Kooshian. Overweight and Obese Humans Overeat Away from Home. **Appetite**, 59(2):204-211, 2012.

Dorgo, S, **GA King**, JO Bader, & JS Limon. Comparing the Effectiveness of Peer Mentoring and Student Mentoring in a 35-week Fitness Program for Older Adults. **Archives of Gerontology and Geriatrics**, 53(3):344-349, 2011.

King GA, SE Deemer, & DL Thompson. Relationship between Leptin, Adiponectin, Bone Mineral Density, and Measures of Adiposity among Pre-menopausal Hispanic and Caucasian Women. **Endocrine Research**, 35(3):106-117, 2010.

Deemer, SE, **King GA**, S Dorgo, CA Vella, JW Tomaka, & DL Thompson. Relationship of Leptin, Resting Metabolic Rate, and Body Composition in Pre-menopausal Hispanic and Non-Hispanic White Women. **Endocrine Research**, 35(3):95-105, 2010.

King GA, SE Deemer, & DL Thompson. Adiponectin is Associated with Risk of the Metabolic Syndrome and Insulin Resistance in Women. **Acta Diabetologica**, 49(Supp 1):41-49, (December 2012). ePub ahead of print: <http://dx.doi.org/10.1007/s00592-010-0192-6>

Dorgo, S, **GA King**, & GD Brickey. The Application of Peer-Mentoring to Improve Fitness of older adults. **Journal of Aging and Physical Activity**, 17:344-361, 2009.

Dorgo, S, **GA King**, N Candelaria, JO Bader, GD Brickey, & CE Adams. The Effects of a Manual Resistance Training on Fitness in adolescents. **Journal of Strength and Conditioning Research**, 23:2287-2294, 2009.

Dorgo S, **GA King**, & CA Rice. The Effects of Manual Resistance Training on Improving Muscular Strength and Endurance. **Journal of Strength and Conditioning Research**, 23:293-303, 2009.

Bowerman, SJ, DR Smith, M Carlson, & **GA King**. A Comparison of Factors Influencing ACL Injury in Male and Female Athletes Versus Male and Female Non-athletes. **Physical Therapy in Sport**, 7:144-152, 2006.

King, GA, B Fulkerson, MJ Evans, KL Moreau, JE M^cLaughlin, & DL Thompson. Effect of Clothing Type on Validity of Air-Displacement Plethysmography. **Journal of Strength & Conditioning Research**, 20:95-102, 2006.

Meeuwssen, H. J., **GA King**, & R Pederson. Effects of a Cooperative Learning Strategy on Undergraduate Kinesiology Students' Learning Styles. **Perceptual and Motor Skills**, 101:525-530, 2005.

King, GA, N Torres, C Potter, & KJ Coleman. Comparison of Activity Monitors to Estimate Energy Cost of Treadmill Exercise. **Medicine & Science in Sports & Exercise** 36:1244-1251, 2004.

Swartz, AM, MJ Evans, **GA King**, & DL Thompson. Evaluation of a Foot-to-Foot Bioelectrical Impedance Analyser in Highly Active, Moderately Active and Less Active Young Men. **British Journal of Nutrition** 88:205-210, 2002.

Bassett, DR, Jr., EC Fitzhugh, CJ Crespo, **GA King**, & JE M^cLaughlin. Physical Activity and Ethnic Differences in Hypertension Prevalence in the United States. **Preventive Medicine** 34:179-186, 2002.

Meeuwssen, HJ & **GA King**. Michaelsen's Model of Team Learning Applied in Undergraduate Kinesiology Classes. **Education Innovation in Economics and Business (EDiNEB) Network Electronic paper**, <http://www.fdewb4.unimaas.nl/edineb/sessiondetail.asp?conferenceID=9&entryID=214>, 2002.

Bassett, DR, Jr., ET Howley, DL Thompson, **GA King**, JE M^cLaughlin, & SJ Strath. Validity of Inspiratory and Expiratory Methods of Measuring Gas Exchange with a Computerized Metabolic System. **Journal of Applied Physiology** 91:218-224, 2001.

King, GA, EC Fitzhugh, DR Bassett Jr., JE M^cLaughlin, SJ Strath, AM. Swartz, & DL Thompson. Relationship of Leisure-Time Physical Activity and Occupational Activity to Prevalence of Obesity. **International Journal of Obesity** 25:606-612, 2001.

M^cLaughlin, JE, **GA King**, ET Howley, DR Bassett, Jr., & BE Ainsworth. Validation of the COSMED K4 b² Portable Metabolic System. **International Journal of Sports Medicine** 22:280-284, 2001.

Swartz, AM, SJ Strath, DR Bassett, Jr., WL O'Brien, **GA King**, & BE Ainsworth. Estimation of Energy Expenditure Using CSA, Inc. Accelerometer Hip and Wrist Sites. **Medicine & Science in Sports & Exercise** 32:S450-S456, 2000.

Strath, SJ, AM Swartz, DR Bassett, Jr., WL O'Brien, **GA King**, & BE Ainsworth. Evaluation of Heart Rate as a Method for Estimating Moderate Intensity Physical Activity. **Medicine & Science in Sports & Exercise** 32:S465-S470, 2000.

Bassett, DR Jr., BE Ainsworth, AM Swartz, SJ Strath, WL O'Brien, & **GA King**. Validity of Four Motion Sensors in Measuring Moderate Intensity Physical Activity. **Medicine & Science in Sports & Exercise** 32:S471-S480, 2000.

King, GA, JE M^cLaughlin, ET Howley, DR Bassett, Jr., & BE Ainsworth. Validation of Aerosport KB1-C Portable Metabolic System. **International Journal of Sports Medicine** 20:304-308, 1999.

INVITED PUBLICATIONS

King, GA & JS Limon. *Cool Plan: simple precautions to keep cool and remain safe*. El Paso Style, June/July 2009, p. 61.

King, GA & SE Deemer. *Encouraging Physical Activity in the Elderly*. El Paso Physician 28(5):5, 2005.

King, GA, S Dorgo, & SE Deemer. *Body Composition: How to measure it; What does it mean*. ACSM Fit Society Page, Winter 2006-2007 – "The Health Club" p. 5-6.

BOOKS / BOOK CHAPTERS / BOOK ABSTRACTS

Meeuwssen, HJ & **GA King**. *Michaelsen's model of team-based learning applied in undergraduate Kinesiology classes*. In R. G. Milter, V. S. Perotti, & M. S. R. Segers, Educational Innovation in Economics and Business IX: Breaking Boundaries for Global Learning (2004). Amsterdam: Kluwer Academic Publishers. pp. 33-48.

King, GA, EC Fitzhugh, DR Bassett, Jr., JE McLaughlin, SJ Strath, AM Swartz, & DL Thompson. *Relationship of leisure-time physical activity and occupational activity to the prevalence of obesity*. In M. A. Bowman, W. W. Dexter, J. E. Scherger, V. Gilchrist, R. Neill, & E. Morrison, (Eds.), Year Book of Family Practice (2002). St. Louis, MO: Mosby.

PUBLISHED PROCEEDINGS

Dorgo, S, D Smith, M Ortiz, & **G King**. The Effects of Eccentric Phase Duration on Concentric Phase Force Production During Depth Jumps. In H. Schwameder, G. Strutzenberger, V. Fastenbauer, S. Lindinger, & E. Muller (Eds.), Proceedings of the 24th International Symposium on Biomechanics in Sports (2006). Salzburg, Austria: Department of Sport Science and Kinesiology, University of Salzburg. pp. 667-670.

PUBLISHED ABSTRACTS

Deemer, SE, **GA King**, MS Hickey, & CL Melby. High molecular weight adiponectin and fasting blood glucose are predictive of insulin sensitivity in healthy, Hispanic women. **Medicine & Science in Sports & Exercise** 45(5S): S331-334, 2013. doi: 10.1249/01.mss.0000433688.10657.55

Acosta, DJ, ST Miller, JP Porta, AN Lehker, JW Tomaka, RJ Reed-Jones, & **GA King**. Validating the Nike+ Sport Kit for estimating pace, distance, and energy expenditure during treadmill exercise. **Medicine and Science in Sports and Exercise** 44(S2): 2012.

Porta, JP, DJ Acosta, AN Lehker, ST Miller, JW Tomaka, & **GA King**. Validating the Adidas miCoach for estimating pace, distance, and energy expenditure during outdoor over-ground exercise. **Medicine and Science in Sports and Exercise** 44(S2): 2012.

Lehker, AN, JP Porta, DJ Acosta, ST Miller, & **GA King**. Validating the Nike+ Sport Kit for estimating pace, distance, and energy expenditure during over-ground exercise. **Medicine and Science in Sports and Exercise** 44(S2): 2012.

Miller, ST, DJ Acosta, JP Porta, AN Lehker, & **GA King**. Validating the Adidas miCoach for estimating pace, distance, and energy expenditure during treadmill exercise. **Medicine and Science in Sports and Exercise** 44(S2): 2012.

Vizcaino, M, & **GA King**. Effect of yoga on anxiety, psychological stress, and cortisol of Type 2 diabetes mellitus patients. **Medicine and Science in Sports and Exercise** 44(S2): 2012.

Deemer, SE, **GA King**, V Castro, F Ibarra, A Jacquez, D Ponce, M Rodriguez, E Venegas, CL Melby, & MS Hickey. Fasting Blood Glucose is Significantly Associated with Metabolic Inflexibility in Hispanic Women. **Medicine and Science in Sports and Exercise** 44(S2):S421-S422, 2012.

King, GA & SE Deemer. Association of Sex-Hormone Binding Globulin with Markers of the Metabolic Syndrome and Cardiovascular Disease. **Medicine and Science in Sports and Exercise** 43:S72, 2011.

Dorgo, S, **GA King**, JO Bader, & JS Limon. Comparison of Peer Mentoring and Student Mentoring in a 35-week Fitness Program for Older Adults. **Journal of Strength and Conditioning Research** 25:S45, 2011.

Deemer, SE, **GA King**, & DL Thompson. Effect of Acute Exercise on Insulin Concentration of Obese and Non-Obese Post-Menopausal Women. **Medicine & Science in Sports & Exercise** 42:S238, 2010.

Ramirez, BA & **GA King**. Relationship Between Leisure-Time Physical Activity and Whole Body Bone Mineral Density, Human Growth Hormone, and Leptin in Women. **International Journal of Exercise Science: Conference Abstract Submissions** 2:(2), Article 11, 2010. Available at: <http://digitalcommons.wku.edu/ijesab/vol2/iss2/11>

Cavegn, EI & **GA King**. Accuracy of RT3 Accelerometer and SenseWear Armband to Estimate Free-Living Energy Expenditure. **International Journal of Exercise Science: Conference Abstract Submissions** 2:(2), Article 3, 2010. Available at: <http://digitalcommons.wku.edu/ijesab/vol2/iss2/3>

King, GA, SE Deemer, S Dorgo, & DL Thompson. Adiponectin Concentrations are Associated with Cardiovascular Disease Risk Factors in Pre-Menopausal Women. **Medicine & Science in Sports & Exercise** 41:S54, 2009.

Deemer, SE, **GA King**, & DL Thompson. Adiponectin is Inversely Associated with Insulin Resistance and Metabolic Syndrome in Premenopausal Non-Diabetic Women. **Medicine & Science in Sports & Exercise** 41:S54, 2009.

Zubia, RY, SF Burns, **GA King**, J Tomaka, & CA Vella. Substrate Oxidation and Energy Expenditure During and After Isocaloric Exercise Bouts of Different Intensity. **Medicine & Science in Sports & Exercise** 41:S227, 2009.

King, GA, SE Deemer, S Dorgo, & DL Thompson. Influence of Visceral Adiposity and Triglycerides on Insulin Resistance in Pre-Menopausal Caucasian and Hispanic Women. **Medicine & Science in Sports & Exercise** 40:S227, 2008.

Deemer, SE, BM Franco, C Potter, S Dorgo & **GA King**. Accuracy of an Armband Type Physiological Body Monitor to Estimate Light/Sedentary Activities of Daily Living. **Medicine & Science in Sports & Exercise** 40:S207, 2008.

Dorgo, S, & **GA King**. Effectiveness of Peer Mentoring in a Prolonged Senior Fitness Program. **Research Quarterly for Exercise and Sport** 79: A-14, 2008.

Dorgo, S, **GA King**, & SE Deemer. Effects of Functional Training in an Older Adult Fitness Program. **Research Quarterly for Exercise and Sport** 79: A-13, 2008.

King, GA, S Dorgo, & SE Deemer. The Application of Peer-Mentoring in a Physical Fitness Program for Older Adults. **Journal of Strength and Conditioning Research** 21: e23, 2007.

King, GA, S Dorgo, & SE Deemer. Sex Difference in Muscular Strength Initiated by Two Different Resistance Training Programs. **Journal of Strength and Conditioning Research** 21:e37, 2007.

Dorgo, S, **GA King**, & GD Brickey. The Effects of Manual Resistance Training on Fitness Test Achievement Scores in Adolescents. **Journal of Strength and Conditioning Research** 21:e21, 2007.

Dorgo, S, **GA King**, & GD Brickey. The Application of Functional Training to Improve Fitness in Older Adults. **Journal of Strength and Conditioning Research** 21:e22, 2007.

King, GA, SE Deemer, C Potter, & DL Thompson. Relationship between Leptin, Bone Mineral Density, and Fat Mass in Pre-Menopausal Hispanic and Caucasian Women. **Medicine & Science in Sports & Exercise** 39:S456, 2007.

Deemer, SE, C Potter, **King, GA**, & DL Thompson. Relationship of Leptin, Resting Metabolic Rate, and Body Composition in Pre-Menopausal Hispanic and Caucasian Women. **Medicine & Science in Sports & Exercise** 38:S455, 2007.

King, GA, S Dorgo, & CA Rice. Effectiveness of a manual Resistance vs. Weight Resistance Training Program on Aerobic Power. **Journal of Strength & Conditioning Research** 20:e27, 2006.

Dorgo, S, **GA King**, & CA Rice. Effects of a 14-week Manual Resistance Training Program on Muscular Strength and Muscular Endurance. **Journal of Strength & Conditioning Research** 20:e36, 2006.

Dorgo, S, **GA King**, & CA Rice. Effectiveness of a Manual Resistance vs. a Weight Resistance Training Program on Body Composition. **Journal of Strength & Conditioning Research** 20:e26, 2006.

King, GA, SE Deemer, C Potter, CA Spence, BM Franco, & CG Sifuentes. Assessment of Body Fatness by Dual Energy X-ray Absorptiometry and Hydrodensitometry. **Medicine & Science in Sports & Exercise** 38:S311, 2006.

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Potter, C, SE Deemer, CG Sifuentes, KJ Coleman, & **GA King**. Accuracy of an Armband Type Physiological Body Monitor to Estimate Walking Energy Expenditure in Children. **Medicine & Science in Sports & Exercise** 38:S208, 2006.

King, GA, SE Deemer, BM Franco, C Potter, & KJ Coleman. Accuracy of Three Physical Activity Monitors to Measure Energy Expenditure during Activities of Daily Living. **Medicine & Science in Sports & Exercise** 37:S115, 2005.

King, GA, N Torres, C Potter, & KJ Coleman. Comparison of Two Tri-Axial Accelerometric Measures of Energy Expenditure. **Medicine & Science in Sports & Exercise** 36:S198, 2004.

Potter, C, **GA King**, & DL Thompson. Effects of Body Hair on Air-Displacement Plethysmography. **Medicine & Science in Sports & Exercise** 36:S72, 2004.

King, GA, N Torres, C Potter, & KJ Coleman. Accuracy of a Physiological Body Monitor to Estimate Energy Expenditure during Treadmill Exercise. **Medicine & Science in Sports & Exercise** 35:S285, 2003.

Coleman, KJ, N Torres, C Potter, & **GA King**. Comparison of Energy Expenditure Estimated by Bi-Axial Accelerometry to Indirect Calorimetry. **Medicine & Science in Sports & Exercise** 35:S284, 2003.

Torres, N, C Potter, KJ Coleman, & **GA King**. Tri-Axial Accelerometric Measures of Energy Expenditure Compared to Indirect Calorimetry. **Medicine & Science in Sports & Exercise** 35:S284, 2003.

King, GA, BB Parr, SA Conger, AM Swartz, K Bielak, J Langley, JE M^cLaughlin, ET Howley, DR Bassett, Jr., EC Fitzhugh, & DL Thompson. *Effects of Body Composition on the Growth Hormone Response to Exercise in Postmenopausal Women*. **Medicine & Science in Sports & Exercise** 34:S106, 2002.

Swartz, AM, MJ Evans, **GA King**, & DL Thompson. *Assessment of a BIA System for Determining Body Fat in Athletic, Active, and Inactive Males*. **Medicine & Science in Sports & Exercise** 33:S241, 2001.

Bassett, DR Jr., BE Ainsworth, AM Swartz, SJ Strath, WL O'Brien, & **GA King**. *Validity of Four Motion Sensors in Measuring Moderate Intensity Physical Activity*. **Medicine & Science in Sports & Exercise** 32:S256, 2000.

King, GA, EC Fitzhugh, DR Bassett Jr., JE M^cLaughlin, SJ Strath, AM. Swartz, & DL Thompson. *Relationship of Leisure-Time Physical Activity and Occupational Activity to Prevalence of Obesity*. **Medicine & Science in Sports & Exercise** 32:S754, 2000.

Swartz, AM, SJ Strath, DR Bassett, Jr., WL O'Brien, **GA King**, & BE Ainsworth. *Estimation of Energy Expenditure Using CSA, Inc. Accelerometer Hip and Wrist Sites*. **Medicine & Science in Sports & Exercise** 32:S1632, 2000.

Strath, SJ, AM Swartz, DR Bassett, Jr., WL O'Brien, **GA King**, & BE Ainsworth. *Evaluation of Heart Rate as a Method for Estimating Moderate Intensity Physical Activity*. **Medicine & Science in Sports & Exercise** 32:S1638, 2000.

Thompson, DL, **GA King**, JE M^cLaughlin, KL Moreau, MJ Evans, & B Fulkerson. *Effect of Clothing Type on Validity of a Method of Whole Body Plethysmography*. **Medicine & Science in Sports & Exercise** 31:S203, 1999.

King, GA, JE M^cLaughlin, ET Howley, DR Bassett, Jr., & BE Ainsworth. *Validation of Aerosport KB1-C Portable Metabolic System*. **Medicine & Science in Sports & Exercise** 31:S285, 1999.

M^cLaughlin, JE, **GA King**, ET Howley, DR Bassett, Jr., & BE Ainsworth. *Validation of the COSMED K4 b² Portable Metabolic System*. **Medicine & Science in Sports & Exercise** 31:S286, 1999.

FUNDED GRANTS / FELLOWSHIPS / PROJECT SUPPORT

- National Institutes of Health – R21-ES014206-01 PI: King, GA (2005-2008)
National Institute of Environmental Health Sciences: Obesity and the Built Environment. *Relating Physical Activity and Nutrition to the Built Environment in a Bi-National Border Setting*. Role: Principal Investigator
- National Institutes of Health – P20-MD000548-01 PI: Natalicio, D (2005-2007)
National Center on Minority Health and Health Disparity, Hispanic Health Disparities Research Center: *The effects of Manual Resistance Training on fitness test achievement scores and exercise behavior in Hispanic adolescents*. Role: Co-Principal Investigator
- Paso del Norte Health Foundation PI: Dorgo, S (2005-2007)
Ageless Health Initiative: *Physical Fitness in the Golden Age*. Role: Co-Principal Investigator
- University of Texas at El Paso PI: Dorgo, S (2004-2005)
University Research Initiative: *Effect of Two Different Resistance Training Programs on Components of Fitness*. Role: Co-Principal Investigator
- National Institutes of Health – P20-MD000548-01 PI: Natalicio, D (2003-2005)
National Center on Minority Health and Health Disparity, Hispanic Health Disparities Research Center: *Body Composition, Hormones, and Health Risk Factors in Middle-aged Hispanic, African-American and Caucasian Women*. Role: Principal Investigator (pilot project #2)
- Paso del Norte Health Foundation - 1082 PI: King, GA (2003-2004)
Border Health Promotion Center: *Physical Activity Initiative*. Role: Principal Investigator
- Paso del Norte Health Foundation PI: King, GA (2002-2005)
Center for Border Health Research: *Objective Assessment of Daily Physical Activity in Free-Living US/Mexico Border Region Adults and Elementary School Children*. Role: Principal Investigator
- Migrant Border Health Initiative PI: M Carlson (2002-2003)
An Interdisciplinary Approach Toward a Strategic Framework for the Quantification Of Baseline Anthropometric and Physiological Data, Occupational Disorder Risk and Severity, and Work Design Parameters of Female Hispanic Migrant Workers. Role: Consultant
- University of Texas at El Paso PI: King, GA (2001-2002)
University Research Initiative: *Evaluation of Uni-axial and Multi-axial Motion Sensors for Measuring the Energy Cost of Walking and Running*. Role: Principal Investigator
- Arthur E. Yates Graduate Fellowship PI: King, GA (2000-2001)
The University of Tennessee; Fellowship. Role: Principal Investigator
- Baptist Health Foundation PI: King, GA (2000)
Effects of Body Composition on the Growth Hormone Response to Exercise in Postmenopausal Women. Role: Principal Investigator