

Curriculum Vitae

Tiago V Barreira

(updated on 2/12/2020)

Assistant Professor
Syracuse University
Department of Exercise Science
tvbarrei@syr.edu

EDUCATION AND EXPERIENCE

Educational

Postdoc	2010-14	Pennington Biomedical Research Center
Ph.D.	2010	Human Performance (Kinesmetrics Concentration), Middle Tennessee State University (MTSU)
M.S.	2006	Exercise Science Middle Tennessee State University
B.A.	2003	Physical Education (Exercise Science Concentration) University of North Carolina at Wilmington (UNCW)
B.S.	2003	Business Administration (Finance Concentration) University of North Carolina at Wilmington

TEACHING

Courses Taught at Syracuse University

PPE 685 - Systemic Physiology & Exercise
PPE 693 - Research Methods in Exercise & Sports Science
PPE 500 - Measurement and Evaluation in Exercise Science
PPE 700 - Physical Activity and Public Health
PPE 500 - Obesity and Body Composition

Course Taught at Middle Tennessee State University (as teaching assistant)

- Co-Teaching Data Analysis and Organization (Graduate Course)
- Co-Teaching Physiology of Exercise
- Co-Teaching Research Seminar in Exercise Science
- Co-Teaching Applied Research in Exercise Science
- Physiology of Exercise Laboratory
- Measurement and Evaluation

CURRENT PHD STUDENT RESEARCH MENTORING

Lindsey White (PhD student)

Gianpietro Jose Elias Revolledo (PhD student)

STUDENT TEACHING SUPERVISION

Gianpietro Jose Elias Revolledo – Future Professoriate Program

Lindsey White – Future Professoriate Program

STUDENT RESEARCH PROJECT SUPERVISION (2015-)

Catalina Cotis, MS	Balance training before versus after softball practice: Does timing matter?
Lindsey White, MS	The relationship between the built environment and fitness in Syracuse City youth
Gretchen Klinkner, MS	Effects of hypoglycemia on SCAT-5 test scores in Syracuse University student-athletes
Donald Moran, MS	The cause of exercised-induced muscle cramps: dehydration or neuromuscular fatigue?
Nicole Joens, MS	Comparison in prevalence of ACL tears among different divisions within the NCAA.
Olivia King, MS	Performance anxiety in sports: Music as a possible mediator
Christopher Arboleda, MS	Investigating the relationship between physiological responses and simulated interaction models (SIMs)
Wade Hebrink, MS	Isokinetic concentric hamstring and quadriceps strength variables for collegiate American football players: Predictor of hamstring injury
Adelyn Passaro, MS	The effect of sleep and other determinants on academic performance of Division I collegiate athletes: An exploratory study

INTERNAL (SU) DISSERTATION/MS THESIS COMMITTEE MEMBER (2015-)

Wes Lefferts, BS (Thesis)	Acute nitrate ingestion to improve cerebrovascular and cognitive function in hypoxia
Jackie Augustine, MS (Dissertation)	Sex differences in myocardial adaptations to strenuous endurance exercise
Wes Lefferts, MS (Dissertation)	Cerebrovascular and cognitive function following acute exercise in adults with hypertension
Jessica Redmond, MS (Dissertation)	Effect of fetal programming on physical activity behaviors
Allison Keller, BS (Thesis)	The relationship between vascular health and muscular fitness among female athletes and non-athletes

DISSERTATION/MS THESIS READER/CHAIR

David Gordon, MS	Cognitive, Academic, and neuropsychological effects of treatment for childhood acute lymphocytic leukemia
Stephanie Cristiano, MS	Suppressed Anger and Response to Facial Expressions of Emotions

GENERAL UNIVERSITY SERVICE

Falk Analytics Task Force

Aging Studies Institute Research Member

Exercise Science Search Committee

School of Education Teaching Committee

School of Education Committee on Policies, Standards, and Scholarships

AWARDS/HONORS

- 2017 Fellow of the Society of Health and Physical Educators.
- 2011 Participated in the 2011 CDC Physical Activity and Public Health Course
- 2010 Research Consortium's 2010 Research Writing Award for the paper entitled "How many days are enough? A study of 365 days of pedometer monitoring"
- 2009 Measurement and Evaluation Council of the AAPAR Graduate Student Scholarship winner.
- 2008 Student research award finalist at the South East ACSM 2008 conference.
- 2007 Middle Tennessee State University, Scholars Week: research, scholarship, and creative project 3rd place winner.
- 2003 University of North Carolina at Wilmington Department of Health and Applied Human Sciences Outstanding Exercise Science Student Award Recipient, spring 2003 Commencement.
- 2003 Colonial Athletic Association Scholar Athlete of the year 2002-2003.
- 2003 University of North Carolina at Wilmington Chancellor's Cup Award 2002-2003
- 2003 New Hanover Regional Medical Center Scholarship
- 1999-2003 University of North Carolina at Wilmington Swimming and Diving Scholarship

RESEARCH: PUBLICATIONS

Thesis/Dissertation Title

Barreira, T. V. (2010). Dose-response relationship between exercise and CVD risk factors: A meta-analysis of randomized controlled trials. Middle Tennessee State University, Murfreesboro, TN.

Barreira, T. V. (2006). Resistance Training and Bone Mineral Density of College Level Female Swimmers. Middle Tennessee State University, Murfreesboro, TN.

Refereed Journal Articles Published and In Press

97. Sumner, J., Uijtdewilligen, L., Chu A.H., Ng, S.H., **Barreira, T.V.**, Sloan, R.A., et al. (Accepted) Volume and intensity of stepping activity and cardiometabolic risk factors in a multi-ethnic Asian population. *International Journal of Environmental Research and Public Health*,

96. Trevisan, I.B., Vanderlei, L.C.M., Proença, M., **Barreira, T.V.**, Santos, C.P., et al. (Accepted). Sleep quality associated with habitual physical activity level and autonomic nervous system of smokers. *Arquivos Brasileiros de Cardiologia*,

95. Heffernan, K.S., Columna, L., Prieto, L., Pagan, P., DeBlois J., Prawl, A., et al. (Epub). Home blood pressure assessment in children with autism spectrum disorder: A feasibility study. *Artery Research*,
94. Williams, R.E., **Barreira, T.V.** & Tseh, W. (Epub). Fitness-related benefits: land-based versus aqua-base. *Journal of Sports Medicine and Physical Fitness*.
93. Columna, L., Dillon, S.R., Dolphin, M., Streete, D.A., Hodge, S.R., Myers, B., et al. (Epub). Parents' intentions toward including their children with visual impairments in physical activities. *Disability and Rehabilitation*,
92. Pereira, S., Reyes, A., Moura-Dos-Santos, M., Santos, C., Gomes, T.N., Tani, G., Vasconcelos, O., et al. (Epub) Why are children different in their moderate-to-vigorous physical activity levels? A multilevel analysis. *Jornal de Pediatria*,
91. Aguiar, E.J., Schuna, J.M.Jr., **Barreira, T.V.**, Mire, E.F., Broyles, S.T., Katzmarzyk, P.T., et al. (2019). Normative Peak 30-min Cadence (Steps/Min) Values for Older Adults: NHANES 2005-2006. *Journal of Aging and Physical Activity*, 27(5), 625-632.
90. Reid, R.E.E., Granat, M., **Barreira, T.V.**, Haugan, C.D., Reid, G., & Andersen, R.R., (2019). Week and weekend day cadence patterns long-term post-bariatric surgery. *Obesity Surgery*, 29(10):3271-3276.
89. **Barreira T.V.**, Broyles, S.T., Tudor-Locke, C., Chaput, J.P., Fogelholm, M., G. Hu, G., et al (2019). Epidemiological transition in physical activity and sedentary time in children. *Journal of Physical Activity and Health*, 16(7),518-524.
88. Santos, C., Reyes, A., Moura, A.C., Moura, M.A., Pereira, S., Gomes, T.N., et al. (2018) A multilevel analysis of individual- and school-level correlates of physical fitness in children. *Annals of Human Biology*, 45(6-8),470-477.
87. Columna, L., Dillon, S.R., Dolphin, M., Streete, D.A., Hodge, S.R., Myers, B., et al. (2019), Physical activity participation among families of children with visual impairments and blindness. *Disability and Rehabilitation*, 41(3),357-365.
86. Larouche R., Mire E.F., Belanger K., **Barreira T.V.**, Chaput J.P., Fogelholm M., et al. (2019). Relationships between outdoor time, physical activity, sedentary behavior and obesity in children: a 12-country. *Pediatric Exercise Science*, 31(1), 118-129.
85. Tseh, W., Champion, H., Ek, S., Frazier, R., Kinslow, A., McClain, C. et al. (2019). Ergogenic effect of neuromuscular electrical stimulation during rest and submaximal exercise. *International Journal of Exercise Science*, 12(3), 203-213.
84. Tudor-Locke, C., Aguiar, E.J., Han, H., Ducharme, S.W., Schuna, J.M.Jr **Barreira, T.V.**, et al. (2019) Walking cadence (steps/min) and intensity in 21-40 year olds: CADENCE-adults. *International Journal of Behavioral Nutrition and Physical Activity*, 16(1), 8.

83. Leffters, W.K., DeBlois, J.P., **Barreira, T.V.**, Heffernan, K.S. (2018). Neurovascular coupling during cognitive activity in adults with and without hypertension. *Journal of Applied Physiology*, *125*(6), 1906-1916
82. Dumuid D., Stanford, T.E., Olds, T., Lewis, L.K., Martin-Fernandez, J.A., Karzmarzyk, P.T., et al. (2018). Compositional data analysis for physical activity, sedentary time and sleep research. *Statistical Methods in Medical Research*, *27*(12) 3726-3738.
81. Proenca, M., Schuna, J.M.Jr, **Barreira, T.V.**, Hsia, D., Pitta, F., Tudor-Locke, C,et al. (2018). Worker acceptability of the Pennington PedalDesk occupational workstation alternative. *Work*, *60*(3), 499-506.
80. Leffters, W.K., DeBlois, J.P., Receno, C.N., **Barreira, T.V.**, Brutsaert, T.D., Carhart, R.C., et al. (2018). Effects of acute aerobic exercise on arterial stiffness and cerebrovascular pulsatility in adults with and without hypertension. *Journal of Hypertension*, *36*(8), 1743-1752.
79. Columna, L., Dillon, S.R., Dolphin, M., Streete, D.A., Hodge, S.R., Myers, B., et al. (2018). Parents' beliefs about physical activity for their children with visual impairments. *Adapted Physical Activity Quarterly*, *35*(4),361-380.
- 78. Barreira, T.V.**, Redmond, J.G., Brutsaert, T.D., Schuna, J.M.Jr, Mire, E.F., Katzmarzyk, P.T., et al. (2018). Can an automated sleep detection algorithm for waist-worn accelerometry replace sleep logs? *Applied Physiology Nutrition and Metabolism*, *43*(10), 1027-1032.
77. Dumuid D., Olds, T., Lewis, L., Martin-Fernandez, J.A., Karzmarzyk, P.T., **Barreira, T.V.**, et al. (2018). Human development index and the relationship between health-related quality of life and physical activity: a compositional data analysis of children from 12 nations. *Quality of Life Research*, *27*(6)1473-1482.
76. Tudor-Locke, C., Han, H., Aguiar, E.J., **Barreira, T.V.**, Schuna, J.M.Jr.,Kang, M., et al. (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.
75. Summer, J., Uijtdewilligen, L., Hian, S.N.H., **Barreira, T.V.**, Sloan, R.A., Dam, R.M.V., et al. (2018). Stepping volume and intensity patterns in a multi-ethnic urban Asian population. *BMC Public Health*, *18*(1)539.
- 74. Barreira, T.V.**, & Schuna J.M.Jr. (2018) Steps per day and its relationship to energy expenditure. (Letter to the Editor-in-Chief) *Medicine and Science in Sports and Exercise*, *50*,(4)876.
73. Tudor-Locke, C., Schuna J.M.Jr., Han, H., Aguiar, E.J., Larrivee, S., Hsia, D.S., et al. (2018). Cadence (steps/min) and intensity in 6-20 year-olds: The CADENCE-Kids study. *International Journal of Behavioral Nutrition and Physical Activity*, *15*(1)20.

72. Dumuid D., Olds, T., Lewis, L., Martin-Fernandez, J.A., Karzmarzyk, P.T., **Barreira, T.V.**, et al. (2018). The adiposity of children is associated with their lifestyle behaviours: A cluster analysis of school-aged children from 12 nations. *Pediatric Obesity*, 13(2),111-119.
71. Heffernan, K.S., Columna, L., Russo, N., Myers, B.A., Ashby, C.E., Norris, M.L., et al. (2018), Physical activity, body mass index, and arterial stiffness in children with autism spectrum disorder: Preliminary findings. *Journal of Autism and Development Disorders*, 49(2), 625-631.
70. Pereira, S., Katzmarzyk, P.T., Gomes, T.N., Souza, M., Chaves, R.N., Santos, F.K., et al. (2018) Resemblance in physical activity levels. The Portuguese Sibling Study on Growth, Fitness, Lifestyle and Health. *American Journal of Human Biology*, 30(1), e23061.
69. Manyanga, T., Barnes, J.D., Tremblay, M.S., Katzmarzyk, P.T., Broyles, S.T., **Barreira, T.V.**, et al. (2018). No evidence for an epidemiological transition in sleep patterns among children: a 12-country study. *Sleep Health*, 4(1), 87-95.
68. Ferrari, G.L.M., Oliveira, L.C., Araujo, T., Matsudo, V.K.R., Mire, E.F., **Barreira, T.V.**, et al. (2017). Accelerometer-determined peak cadence and weight status in children from São Caetano do Sul, Brazil. *Ciência & Saúde Coletiva* 22(11),3689-3698..
67. Pereira, S., Borges, A., Gomes, T.N., Santos, D., Souza, M. dos Santos, F., et al. (2017). Correlates of children's compliance with moderate-to- vigorous physical activity recommendations: A multilevel analysis. *Scandinavian Journal of Medicine and Science in Sports*, 27(8), 842-851.
66. Tseh, W., Devlin, T.B., Milleson, T.W., & **Barreira, T.V.** (2017). Rollers versus trainers: 10-Km time trial. *International Journal of Exercise Science*, 10(4), 497-505.
65. Sullivan S., Broyles, S.T., **Barreira, T.V.**, Chaput, J.P., Fogelholm, M., Hu, G., et al. (2017). Associations between neighborhood social environment attributes and physical activity and obesity among 9-11 year old children from 12 countries. *Health Place*, 22, 183-191.
64. Dumuid D., Olds, T., Lewis, L., Martin-Fernandez, J.A., Karzmarzyk, P.T., **Barreira, T.V.**, et al. (2017). Health-related quality of life and lifestyle behaviour clusters in school-aged children from 12 countries. *The Journal of Pediatrics*, 83, 178-183.
63. Tseh, W., Baker, R., & **Barreira, T.V** (2016) Relationship between neck circumference and abdominal adiposity in young adult males and females. *Rheumatology and Orthopedic Medicine*, 1(1), 1-4.
62. Ferrari, G.L.M., Matsudo, V.K.R., **Barreira, T.V.**, Tudor-Locke, C., Katzmarzyk, P.T., & Fisberg, M. (2016). Correlates of moderate-to-vigorous physical activity in Brazilian children. *Journal of Physical Activity and Health*, 13(10), 1132-1145.

61. Lefferts, W.K., Heffernan, K.S., & **Barreira, T.V.** (2016). Association between pulsatile blood pressure and cognitive performance among older adults: Insight from the National Health and Nutrition Examination Survey 1999-2002. *International Journal of Cardiology*, 223, 981-984.
60. Schuna, J.M.Jr, **Barreira, T.V.**, Hsia, D., Johnson, W.D., & Tudor-Locke, C. (2016). Youth energy expenditure during treadmill walking and common free-living activities. *Journal of Physical Activity and Health*, 13(Suppl 1), S29-34.
- 59. Barreira, T. V.**, Hamilton, M.H., Craft, L.L., Gapstur, S.M., Siddique, J., & Zderic, T.W. (2016). Intra-individual and inter-individual variability in daily sitting time and MVPA. *Journal of Science and Medicine in Sport*, 19(6), 476-481.
58. Chaput, J.P., Weippert, M., LeBlanc, A.G., Hjorth, M.F., Michaelsen, K.F., Katzmarzyk, P.T., et al. (2016). Are children like werewolves? Full moon and its association with sleep and activity behaviors in an international sample of children. *Frontier Pediatric*, 4, 24.
57. Schuna, J.M.Jr, Tudor-Locke, C, Proenca, M., **Barreira, T.V.**, Hsia, D., Pitta, F., et al. (2016). Validation of an integrated pedal desk and electronic behavior tracking platform. *BMC Research Notes*, 9, 74.
56. Kim, Y, **Barreira, T.V.**, & Kang, M. (2016). The 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.
- 55. Barreira, T.V.**, Harrington, D.M., Schuna, J. M. Jr., Tudor-Locke, C., & Katzmarzyk, P.T. (2016). Pattern changes in step count accumulation due to a physical activity intervention. *Journal of Science and Medicine in Sport*, 19(3), 227-231.
54. Matsudo, V., Ferrari, G.L.M., Araujo, T.L., Oliveira, L.C., Mire, E. F., **Barreira, T.V.**, et al. (2016). Socioeconomic status and anthropometric and physical activity in 10-year old Brazilian children. *Revista Paulista de Pediatria*, 34(2), 162-170.
53. Ferrari, G.L.M., Araujo, T.L., Oliveira, L.C., Matsudo, V., Mire, E.F., **Barreira, T.V.** et al. (2015). Association between television viewing and physical activity in 10-year old Brazilian children. *Journal of Physical Activity and Health*, 12(10), 1401-1408.
- 52. 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.
51. LeBlanc, A.G., Katzmarzyk, P.T., **Barreira, T.V.**, Broyles, S.T., Chaput, J.P., Church, T.S., et al. (2015). Are participant characteristics from ISCOLE study sites comparable to the rest of their country? *International Journal of Obesity Supplements*, 5, S9-S16.

50. **Barreira, T.V.**, Schuna, J. M. Jr., Tudor-Locke, C., Chaput, J.P., Church, T.S., Fogelholm, M., et al. (2015). Reliability of accelerometer-determined physical activity and sedentary behavior in school aged children: A 12 country study. *International Journal of Obesity Supplements*, 5, S29-S35.
49. Katzmarzyk, P.T., **Barreira, T.V.**, Broyles, S.T., Champagne, C.M., Chaput, J.P., Fogelholm, M., et al. (2015). Association between body mass index and body fat in 9-11 year old children from countries spanning a range of human development. *International Journal of Obesity Supplements*, 5, S43-S46.
48. Tudor-Locke, C., Mire, E.F., **Barreira, T. V.**, Schuna, J.M.Jr., Chaput, J.P., Fogelholm, M., et al. (2015). Nocturnal sleep-related variables from 24-hour free-living waist-worn accelerometry: International Study of Childhood, Obesity, Lifestyle and the Environment (ISCOLE). *International Journal of Obesity Supplements*, 5, S47-S52.
47. Tudor-Locke, C., **Barreira, T. V.**, Schuna, J.M.Jr., and Katzmarzyk, P.T. for the ISCOLE Research Group (2015). Unique contributions of ISCOLE to the advancement of accelerometry in large studies. *International Journal of Obesity Supplements*, 5, S89-S99.
46. Chaput, J.P., Katzmarzyk, P.T., LeBlanc, A.G., Tremblay, M.S., **Barreira, T.V.**, Broyles, S.T., et al. (2015). Associations between sleep patterns and lifestyle behaviors in children: An international comparison. *International Journal of Obesity Supplements*, 5, S59-S65.
45. Larouche, R., Sarmiento, O.L., Broyles, S.T., Denstel, K.D., Church, T.S., **Barreira, T.V.**, et al. (2015). Are the correlates of active school transport context-specific? *International Journal of Obesity Supplements*, 5, S89-S99.
44. Denstel, K.D., Broeles, S.T., Larouche, R., Sarmiento, O.L., **Barreira, T.V.**, Chaput, J-P., et al. (2015). Active school transport and weekday physical activity in 9-11 year old children from 12 countries. *International Journal of Obesity Supplements*, 5, S100-S106.
43. Sarmiento, O.L., Lemoine, P, Gonzalez, S.A., Broyles, S.T., Denstel, K.D., Larouche, R., et al. (2015). Relationships between active school transport and adiposity indicators in school age children from low-, middle- and high-income countries. *International Journal of Obesity Supplements*, 5, S107-S114.
42. Katzmarzyk, P.T., **Barreira, T.V.**, Broyles, S.T., Champagne, C.M., Chaput, J.P., Fogelholm, M., et al. (2015). Physical activity, sedentary time, and obesity in an international sample of children. *Medicine and Science in Sports and Exercise*, 47(10), 2062-2069.
41. Katzmarzyk, P.T., **Barreira, T.V.**, Broyles, S.T., Champagne, C.M., Chaput, J.P., Fogelholm, M., et al. (2015). Relationship between lifestyle behaviours and obesity in 9-11 year old children: Results from a 12-country study. *Obesity*, 23(8), 1696-1702.

40. Ferrari, G.L.M., Oliveira, L.C., Araujo, T.L., Matsudo, V., **Barreira, T.V.**, Tudor-Locke, C. et al. (2015). Moderate-to-vigorous physical activity and sedentary behavior: independent associations with body composition variables in Brazilian children. *Pediatric Exercise Science*, 27(3), 380-389.
39. Pereira, S., Katzmarzyk, P.T., Gomes, T.N., Borges, A., Santos, D., Souza, M. et al. (2015). Profiling physical activity, diet, screen, and sleep habits in Portuguese children. *Nutrients*, 7(6), 4345-4362.
- 38. Barreira, T. V.**, Zderic, T.W. Schuna, J.M.Jr. Hamilton, M.H., & Tudor-Locke, C. (2015). Free-living activity counts-derived breaks in sedentary time: Are they real transitions from sitting to standing? *Gait & Posture*, 42(1), 70-72.
37. LeBlanc, A.G., Katzmarzyk, P.T., **Barreira, T.V.**, Broyles, S.T., Chaput, J.P., Church, T.S., et al. (2015) Correlates of sedentary behavior in 10-year olds from 12 countries: The International Study of Childhood Obesity, Lifestyle, and the Environment. *PLOS ONE*, 10(6) e0129622.
36. Tudor-Locke, C., Dentre, K.N., Mire, E.F., **Barreira, T. V.**, Schuna, J.M.Jr., Zhao, P. et al. (2015). A model for presenting accelerometer paradata in large studies: ISCOLE. *International Journal of Behavioral Nutrition and Physical Activity*, 12, 52.
- 35. Barreira, T.V.**, Schuna, J. M. Jr., Mire E. F., Chaput, J.P., Leduc, G., Katzmarzyk, P. T., et al. (2015). Identifying children's nocturnal sleep using 24-hour waist accelerometry. *Medicine and Science in Sports and Exercise*, 47(5), 937-943.
34. Tudor-Locke, C., **Barreira, T.V.**, & Schuna, J. M. Jr. (2015) Comparison of step outputs for waist- and wrist-accelerometer attachment sites. *Medicine and Science in Sports and Exercise*, 47(4), 839-842.
- 33. Tudor-Locke, C.**, **Barreira, T.V.**, Schuna, J. M. Jr., Mire E. F., Chaput, J.P., Fogelholm, M., et al. (2015). Improving wear time compliance with a 24-hour waist-worn accelerometer protocol in the International Study of Childhood Obesity, Lifestyle and the Environment (ISCOLE). *International Journal of Behavioral Nutrition and Physical Activity*, 12, 11.
- 32. Barreira, T.V.**, Schuna, J.M. Jr., Mire, E.F., Broyles, S.T., Katzmarzyk, P.T., Johnson, WD, et al. (2015). Normative steps/day values for children and adolescents: NHANES 2005-2006. *Journal of Pediatrics*, 166(1), 139-143.
31. Kang, M, Bjornson, K., **Barreira, T. V.**, Ragan, B.G., & Song, K. (2014). Influence of children's age and gender in establishing reliable physical activity estimates. *Physiological Measurement*, 35, 2229-2237.
30. Harrington D.M., **T.V. Barreira**, A.E. Staiano, P.T. Katzmarzyk. (2014). The descriptive epidemiology of sitting among US adults, NHANES 2009/2010. *Journal of Science and Medicine in Sport*, 17, 371-375.

29. **Barreira, T.V.**, Broyles, S.T., Gupta, A.K., & Katzmarzyk, P.T. (2014). Relationship of anthropometric indices to abdominal and total body fat in youth: Sex and race differences. *Obesity*, 22(5), 1345-1350.
28. **Barreira, T.V.**, Harrington D. M., & Katzmarzyk, P.T. (2014). Cardiovascular health metrics and accelerometer measured physical activity levels: NHANES 2003-2006. *Mayo Clinic Proceedings*, 89(1), 81-86.
27. Staiano A.E., Harrington, D.H. **Barreira, T.V.** Katzmarzyk, P.T. (2014) Sitting time and cardiometabolic risk in US adults: associations by sex, race, socioeconomic status and activity level. *British Journal of Sports Medicine*, 48, 213-219.
26. Herrmann, S., **Barreira, T.V.**, Ainsworth, B., & Kang, M. (2014). Impact of accelerometer wear time on physical activity data: a NHANES semisimulation data approach. *British Journal of Sports Medicine*, 48,278-282.
25. Tudor-Locke, C., **Barreira, T.V.**, Schuna, J.M.Jr., Mire, E.F., Katzmarzyk, P.T. (2014). Fully automated waist-worn accelerometer algorithm for detecting children's sleep period time separate from 24-hour physical activity or sedentary behaviors. *Applied Physiology, Nutrition, and Metabolism*, 39(1), 53-57.
24. Tudor-Locke, C., Schuna, J.M.Jr., **Barreira, T.V.**, Mire, E.F., Broyles, S.T., Katzmarzyk, P.T., et al. (2013) Normative accelerometer-determined steps/day and peak cadence data for older adults: NHANES 2005-2006. *Journal of Gerontology: Medical Sciences*, 68(11), 1426-1432.
23. **Barreira, T. V.**, Katzmarzyk, P. T., Johnson, W. D., & Tudor-Locke, C. (2013). Walking cadence and cardiovascular risk in children and adolescents: NHANES, 2005–2006. *American Journal of Preventive Medicine*, 45(6), e27-e34.
22. Tudor-Locke, C., **Barreira, T.V.**, Brouillette, RM, Foil, HC., & Keller, J. N, (2013) Preliminary comparison of clinical and free-living measures of stepping cadence in older adults. *Journal of Physical Activity and Health*, 10(8), 1175-1180.
21. Katzmarzyk, P.T., **Barreira, T.V.**, Broyles, S.T., Champagne, C.M., Chaput, J.P., Fogelholm, M., et al. (2013). The International Study of Childhood Obesity, Lifestyle and the Environment (ISCOLE): Design and methods. *BMC Public Health*, 13, 900.
20. **Barreira, TV.**, Brouillette, RM, Foil, HC., Keller, JN., & Tudor-Locke, C. (2013). Comparison of older adults' steps/day using NL-1000 pedometer and two GT3X+ accelerometer filters. *Journal of Aging and Physical Activity*, 21(4), 402-416.
19. Rowe, D., 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(2), 217-221.

18. Herrmann, S. D., **Barreira, T. V.**, Kang, M., & Ainsworth, B. E. (2013). How many hours are enough? Optimal accelerometer wear time to reflect daily activity. *Journal of Physical Activity and Health*, 10(5), 742-749.
17. **Barreira, T. V.**, Staiano, A. E., & Katzmarzyk, P. T. (2013). Validity Assessment of a portable bioimpedance scale to estimate body fat percentage in white and African American children and adolescents. *Pediatric Obesity*, 8(2), e29-e32.
16. **Barreira, T.V.**, Tudor-Locke, C., Champagne, C., Broyles, S.T., Harsha, D., Kennedy, B. M., et al. (2013). Comparison of Yamax pedometer and GT3X accelerometer steps in a free-living sample. *Journal of Physical Activity and Health*, 10, 263-270.
15. **Barreira, TV.**, Renfrow, MS., Tseh, W., & Kang, M. (2013). Validity of 7-site skinfold measurement taken by exercise science students. *International Journal of Exercise Science*, 6(1), 20-28.
14. **Barreira, T. V.** (2012). In search of a step-counter criterion for the free-living condition. (Letter to the Editor-in-Chief) *Medicine and Science in Sports and Exercise*, 44(9), 820.
13. **Barreira, T. V.**, Katzmarzyk, P. T., Johnson, W. D., & Tudor-Locke, C. (2012). Cadence patterns and peak cadence in US children and adolescents: NHANES, 2005-2006. *Medicine and Science in Sports and Exercise*, 44(9), 1721-1727.
12. **Barreira, T. V.**, Staiano, A. E., Harrington, D. M., Heymsfield, S. B., Steven, R. S., Bouchard, C., & Katzmarzyk, P. T. (2012). Anthropometric correlates of total body fat, abdominal adiposity and cardiovascular disease risk factors in a biracial sample of men and women. *Mayo Clinic Proceedings*, 87(5), 452-460.
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10. Katzmarzyk, P. T., **Barreira, T. V.**, Harrington, D. M., Staiano, A. E., Heymsfield, S. B., & Gimble, J. M. (2012). Relationship between abdominal fat and bone mineral density in white and African American adults. *Bone*, 50(2), 256-259.
9. **Barreira, T. V.**, Harrington, D. M., Staiano, A. E., Heymsfield, S. B., & Katzmarzyk, P. T. (2011). Body adiposity index, body mass index and body fat in white and African American adults. *JAMA*, 306(8), 828-830.
8. Hart, P. D., **Barreira, T. V.**, & Kang, M. (2010). Correlates and predictors of physical inactivity among Tennessee adults. *Tennessee Medicine*, 103(9), 41-44.
7. **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.

6. Kang, M., Marshall, S. J., **Barreira, T. V.**, & Lee, J. (2009). Effect of pedometer-based physical activity intervention: A meta-analysis. *Research Quarterly for Exercise and Sport*, 80(3), 648-655.
5. Kang, M, Bassett, D. R., **Barreira, T. V.**, Tudor-Locke, C., Ainsworth, B., et al. (2009). How many days are enough? A study of 365 days of pedometer monitoring. *Research Quarterly for Exercise and Sport* 80(3), 445-453.
4. 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.
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2. Holbrook, E. A., **Barreira, T. V.**, & Kang, M. (2009). Validity and reliability of Omron pedometers under control and free-living conditions. *Medicine and Science in Sports and Exercise*, 41(3), 670-674.
1. **Barreira, T. V.**, Kang, M., Caputo, J. L., Farley, R. S., Renfrow, M. S. & Bettle, J. M. (2009). Validation of the Actiheart monitor for the measurement of physical activity. *International Journal of Exercise Science*, 2(1), 60-71.

Refereed Journal Articles Published (authorship as part of a group)

20. Xiao, Q., Chaput, J.P., Olds, T., Fogelholm, M., Hu, G., Lambert, E.V., et al. (Epub). Sleep characteristics and health-related quality of life in 9- to 11-year-old children from 12 countries. *Sleep Health*.
19. Manyanga, T., Barnes, J.D., Chaput, J.P., Guerrero, M., Katzmarzyk, P.T., Mire, E.F., et al. (Epub). Body mass index and movement behaviors among schoolchildren from 13 countries across a continuum of human development indices: A multinational cross-sectional study. *American Journal of Human Biology*,
18. Zakrzewski-Fruer, J.K., Gillison, F.B., Katzmarzyk, P.T., Mire, E.F., Broyles, S.T., Champagne, C.M., (2019). Association between breakfast frequency and physical activity and sedentary time: a cross-sectional study in children from 12 countries. *BMC Public Health*, 19(1), 222.
17. Li, N., Zhao, P., Diao, C., Qiao, Y., Katzmarzyk, P.T., Chaput, J.P., et al. (2019). Joint associations between weekday and weekend physical activity or sedentary time and childhood obesity. *International Journal of Obesity*, 43(4), 691-700.
16. Thivel, D., Tremblay, M.S., Katzmarzyk, P.T., Fogelholm, M., Hu G., Maher, C., et al. (2019). Associations between meeting combinations of 24-hour movement recommendations and dietary patterns of children: A 12-country study. *Preventive Medicine*, 118, 159-165.

15. Chaput, J. P., Tremblay, M. S., Katzmarzyk, P. T., Fogelholm, M., Hu, G., Maher, C. et al. (2018). Sleep patterns and sugar-sweetened beverage consumption among children from around the world. *Public Health Nutrition*, 21(13), 2385-2393.
14. Chaput, J. P., Tremblay, M. S., Katzmarzyk, P. T., Fogelholm, M., Mikkila, V., Hu, G. et al. (2018). Outdoor time and dietary patterns in children around the world. *Journal of Public Health (Oxf)*, 40(4) e493-501.
13. Chaput, J. P., Katzmarzyk, P. T., Barnes, J. D., Fogelholm, M., Hu, G., Kuriyan, R. et al. (2017). Mid-upper arm circumference as a screening tool for identifying children with obesity: a 12-country study. *Pediatric Obesity*, 12(6), 439-445.
12. Lin, Y., Tremblay, M. S., Katzmarzyk, P. T., Fogelholm, M., Hu, G., Lambert, E.V. et al. (2017). Temporal and bi-directional associations between sleep duration and physical activity/sedentary time in children: An international comparison. *Preventive Medicine*, 111, 436-441.
11. Manyanga, T., Tremblay, M. S., Chaput, J. P., Katzmarzyk, P. T., Fogelholm, M., Hu, G. et al. (2017). Socioeconomic status and dietary patterns in children from around the world: different associations by levels of country human development? *BMC Public Health*, 17(1), 457.
10. Qiao, Y., Zhang, T., Liu, H., Katzmarzyk, P. T., Chaput, J. P., Fogelholm, M. et al. (2017). Joint association of birth weight and physical activity/sedentary behavior with obesity in children ages 9-11 years from 12 countries. *Obesity (Silver Spring)*, 25(6), 1091-1097.
9. Muthuri, S. K., Onywera, V. O., Tremblay, M. S., Broyles, S. T., Chaput, J. P., Fogelholm, M. et al. (2016). Relationships between parental education and overweight with childhood overweight and physical activity in 9-11 year old children: Results from a 12-country study. *PLoS ONE*, 11(8), e0147746.
8. Zhao, P., Liu, E., Qiao, Y., Katzmarzyk, P. T., Chaput, J. P., Fogelholm, M. et al. (2016). Maternal gestational diabetes and childhood obesity at age 9-11: results of a multinational study. *Diabetologia*, 59(11), 2339-2348.
7. Roman-Vinas, B., Chaput, J. P., Katzmarzyk, P. T., Fogelholm, M., Lambert, E. V., Maher, C. et al. (2016). Proportion of children meeting recommendations for 24-hour movement guidelines and associations with adiposity in a 12-country study. *International Journal of Behavior Nutrition and Physical Activity*, 13(1), 123.
6. Harrington, D. M., Gillison, F., Broyles, S. T., Chaput, J. P., Fogelholm, M., Hu, G. et al. (2016). Household-level correlates of children's physical activity levels in and across 12 countries. *Obesity (Silver Spring)*, 24(10), 2150-2157.
5. Broyles, S. T., Denstel, K. D., Church, T. S., Chaput, J. P., Fogelholm, M., Hu, G. et al. (2015). The epidemiological transition and the global childhood obesity epidemic. *International Journal of Obesity Supplement*, 5(Suppl 2), S3-8.

4. Mikkila, V., Vepsalainen, H., Saloheimo, T., Gonzalez, S. A., Meisel, J. D., Hu, G. et al. (2015). An international comparison of dietary patterns in 9-11-year-old children. *International Journal of Obesity Supplement*, 5(Suppl 2), S17-21.
3. Qiao, Y., Ma, J., Wang, Y., Li, W., Katzmarzyk, P. T., Chaput, J. P. et al. (2015). Birth weight and childhood obesity: a 12-country study. *International Journal of Obesity Supplement*, 5(Suppl 2), S74-79.
2. Vepsalainen, H., Mikkila, V., Erkkola, M., Broyles, S. T., Chaput, J. P., Hu, G. et al. (2015). Association between home and school food environments and dietary patterns among 9-11-year-old children in 12 countries. *International Journal of Obesity Supplement*, 5(Suppl 2), S66-73.
1. Zakrzewski, J. K., Gillison, F. B., Cumming, S., Church, T. S., Katzmarzyk, P. T., Broyles, S. T. et al. (2015). Associations between breakfast frequency and adiposity indicators in children from 12 countries. *International Journal of Obesity Supplement*, 5(Suppl 2), S80-88.

Refereed Journal Articles under Review

- Barreira, T.V., & Tseh, W.** (Under Review). The Effects of acute water ingestion on body composition analyses Via Dual-Energy X-Ray Absorptiometry. *Clinical Nutrition*.
- Karabinus, J., DeBlois, J., Keller, A., Glasgow, A., **Barreira, T.V.**, Heffernan, K., (Under review). The inverse association of muscular strength with carotid intima-media thickness and extra-media thickness in young physically active women.
- White, L., Chen, J., & **Barreira, T.V.** (Under Review). comparison of heart rate measurement between Fitbit and Polar heart rate strap during free-living. *International Journal of Exercise Science*.
- Heffernan, K., Glasgow, A., Jae, S.Y., & **Barreira, T.V.** (Under review) Sex-specific association of muscular strength with pulse pressure and aortic calcification in older adults: findings from NHANES 2013-2014. *The Journal of Nutrition, Health & Aging*
- Heffernan, K., & **Barreira, T.V.** (Under review) Association between estimated aortic stiffness, aortic calcification and pulse pressure: Findings from the National Health and Nutrition Examination Survey 2013-2014. *The Journal of Clinical Hypertension*.
- Hilberg, E.M., **Barreira, T.V.**, Tudor-Locke, C. & Schuna, J.M.Jr. (Under Review). Evaluation of the step censoring method for refining steps/day estimates from the ActiGraph GT3X+ accelerometer
- Schuna, J.M.Jr., **Barreira, T.V.**, Mire, E.F., Broyles, S.T., Katzmarzyk, P.T., Johnson, W.D. et al. (Under Review). Normative steps/day values for adults: NHANES 2005-2006

Ducharme, S.W., Lim, J., Busa M.A., Aguiar E.J., Moore, C.C., McCullough, A.K., et al. (Under Review). Development of an acceleration threshold for step detection

Redmond, J.G., **Barreira, T.V.**, Wang, Q., & Brutsaert, T.D. (under review). Size at birth predicts adult grip strength among individuals born to term.

Redmond, J.G., **Barreira, T.V.**, Wang, Q., & Brutsaert, T.D. (under review). Size at birth does not predict accelerometer-measured physical activity or sedentary behavior in a cross-section of healthy young adults.

Augustine, J., Lefferts, W., DeBlois, J., **Barreira, T.V.**, Taylor, B., Kan Liu, K., et al. (Under review). Sex differences in cardiovascular adaptations in marathon runners.

RESEARCH: PRESENTATIONS

Tutorial, Symposia, and invited talks

10. Omura, J.D., **Barreira, T.V.**, & Carlsom, S.A. (May, 2020). Wearable Activity Monitors (WAMs) for national surveillance – Are WAMs a slam dunk? Tutorial to be presented at the 66th ACSM Annual Meeting, San Francisco, CA, USA.
09. **Barreira, T.V.** (Nov, 2019). Measurement of physical behaviors: Sleep, sedentary time, and physical activity. Presented at the MARC annual Meeting, Harrisburg, PA.
08. **Barreira, T.V.** (Nov, 2016). How We Gather and Process 24h Accelerometer Data. Presented at the MARC annual Meeting, Harrisburg, PA.
07. **Barreira, T.V.** (Oct, 2016). Measurement of Sedentary Behavior. Presented at USP Ribeirao Preto, Sao Paulo, Brazil.
06. **Barreira, T.V.** (Jul, 2016). 24 hour accelerometry data collection, challenges and opportunities. To be presented at the XXVIIIth International Biometric Conference. Victoria, Canada
05. **Barreira, T.V.**, & Schuna, J.M.Jr. (Jun, 2016). Should physical activity recommendations be the same for boys and girls? Tutorial presented at the 62th ACSM Annual Meeting, Boston, MA, USA.
04. **Barreira, T.V.** (Oct, 2015). 24 hour accelerometry monitoring: Benefits, challenges, and possible solutions. Presented at the Children's Hospital of Eastern Ontario Grand Rounds. Ottawa, Canada.
03. **Barreira, T.V.** (Sep, 2015). Accelerometer paradata and implications of a 24-hour protocol for assessing physical activity, sedentary behaviour, and sleep. Presented at 9th ICDAM. Brisbane, Australia.
02. **Barreira, T.V.**, & Schuna, J.M.Jr. (June, 2015). Collecting and processing 24-hour waist-worn accelerometer data in children. Presented at 4th ICAMPAM. Limerick, Ireland.

01. Tudor-Locke, C., & **Barreira, T.V.** (May, 2014). Tutorial, How fast is enough? Can we set cadence (steps/min) indices for ambulatory behavior? Presented at the 61th ACSM Annual Meeting, Orland, FL, USA.

Refereed Presentations with Abstracts Published in Academic Journals

99. Ellias-Revolved., G.J. & **Barreira, T.V.** (Nov, 2019). 60 min daily vs average of 60 min/day, are there differences in health status? Presented at the MARC annual Meeting, Harrisburg, PA, USA.

98. White, L.E., & **Barreira, T.V.** (Nov, 2019). Predicting gross motor skills in children: Data from the 2012 NHANES National Youth Fitness Survey. Presented at the MARC annual Meeting, Harrisburg, PA, USA.

97. Hilliard, E., Jackson, M., McDaniel, A., Shields, A.T., Williams, R., Swiezy, R., et al. (May, 2019). Effect of a suspension training certification curriculum on health related fitness and functional movement. Presented at the 65th ACSM Annual Meeting, Orlando, FL, USA.

96. Jackson, M., Hilliard, E., Shields, A.T., Swiezy, R., Gonzalez, A., Ortiz, A.L., (May, 2019). Effect of suspension training on selected health-related fitness variables, functional movement screen (FMS), and mobility, activation, posture, and symmetry (MAPS). Presented at the 65th ACSM Annual Meeting, Orlando, FL, USA.

95. Pierle, C., Futrell, N., Shields, A.T., Norris, H.O., Hester, B.E., Barreira, T.V., et al. (May, 2019). Correlation of functional movement screen (FMS) and mobility, activation, posture, and symmetry (MAPS) among older adults. Presented at the 65th ACSM Annual Meeting, Orlando, FL, USA.

94. Barreira, T.V., Harrington, D.M., Zderic, T.W., Schuna J.M.Jr, (May, 2019). 10-year Trends in Americans sedentary behavior (sitting). Presented at the 65th ACSM Annual Meeting, Orlando, FL, USA.

93. White, L.E., DeBlois, J.P., **Barreira, T.V.** (May, 2019). Reliability of the COSMED K5 portable metabolic system. Presented at the 65th ACSM Annual Meeting, Orlando, FL, USA.

92. Tudor-Locke C., Ducharme, S.W., McCullough, A.K., Moore, C.C., Sands, C.J., Gould, Z.R., et al. Moderate intensity walking cadence (steps/min) in 61-85 year old adults. (May, 2019). Presented at the 65th ACSM Annual Meeting, Orlando, FL, USA. *Medicine & Science in Sports & Exercise*, 2019, 51(5S):486.

91. Gould, Z.R., Ducharme, S.W., McCullough, A.K., Moore, C.C., Sands, C.J., Amalbert-Birriel, M.A., et al. Cadence (steps/min) thresholds for relative intensity indicators in older adults. (May, 2019). Presented at the 65th ACSM Annual Meeting, Orlando, FL, USA. *Medicine & Science in Sports & Exercise*, 2019, 51(5S):164.

90. Ducharme, S.W., Aguiar, E.J., McCullough, A.K., Moore, C.C., Sands, C.J, Amalbert-Birriel, M.A., et al. (May, 2019). Do older adults achieve moderate intensity when walking at their self-selected pace? Presented at the 65th ACSM Annual Meeting, Orlando, FL, USA. *Medicine & Science in Sports & Exercise*, 2019, 51(5S):241.
89. Amalbert-Birriel, M.A., Moore, C.C., McCullough, A.K., Ducharme, S.W., Gould, Z.R., Sands, C.J., et al. (May, 2019). Device-specific cadence (steps/min) thresholds for metabolic intensities of walking. Presented at the 65th ACSM Annual Meeting, Orlando, FL, USA. *Medicine & Science in Sports & Exercise*, 2019, 51(5S):296
88. White, L.E., DeBlois, J.P., **Barreira, T.V.** (Nov, 2018). Reliability and validity analysis of the COSMED K5 portable metabolic system. Presented at the MARC annual Meeting, Harrisburg, PA, USA.
87. Larouche R., Mire E.F., Belanger K., **Barreira T.V.**, Chaput J.P., Fogelholm M., et al. (Oct, 2018). Relationships between outdoor time, physical activity, sedentary behavior and obesity in children: a 12-country study. Presented at the 7th International Congress on Physical Activity and Public Health, London, England. *Journal of Physical Activity & Health*, 15 (Suppl. 1), S71.
- 86. Barreira T.V.**, Redmond, J. G., & Brutsaert, T. D. (Oct, 2018). Moderate-to vigorous physical activity: Defined by cadence or activity counts? Presented at the 7th International Congress on Physical Activity and Public Health, London, England.
85. Aguiar E.J., Ducharme, S.W., Moore, C.C., Schuna J.M.Jr, **Barreira, T.V.**, Chipkin, S.R., et al. (Oct, 2018). ActiGraph and Fitbit cadence (steps/min) thresholds for moderate intensity walking in 21-60 year olds: The CADENCE-Adults study. Presented at the 7th International Congress on Physical Activity and Public Health, London, England.
84. Tudor-Locke C., Moore, C.C., Aguiar E.J., Ducharme, S.W., Schuna J.M.Jr, **Barreira, T.V.**, et al. (Oct, 2018) Cadence (steps/min) as an indicator of absolute and relative intensity in middle-aged adults. Presented at the 7th International Congress on Physical Activity and Public Health, London, England.
83. Moore, C.C., Aguiar E.J., Ducharme, S.W., Chipkin, S.R., Schuna J.M.Jr, **Barreira, T.V.**, et al. (Oct, 2018) Step-count mean absolute percent errors during treadmill walking: setting an acceptable tolerance for error. Presented at the 7th International Congress on Physical Activity and Public Health, London, England.
82. McDaniel, A.T., Bryan, K.D., Shields, A.T., Williams, R.E., Swiezy, R., Gonzalez, A., et al. (Jul, 2018). Fitness and functional movement benefits associated with suspension training course curriculum. Presented at the National Strength and Conditioning Association Annual Conference, Indianapolis, IN, USA.

81. Moore, C.C., Ducharme, S.W., Aguiar E.J., Staudenmayer, J., Chipkin, S.R., Schuna J.M.Jr, et al. (Jun, 2018). Revisiting the ACSM metabolic equation for walking: Development of a cadence (steps/min) metabolic equation. Presented at the 64th ACSM Annual Meeting, Minneapolis, MN, USA.
80. Gould, Z.R., Aguiar E.J., Ducharme, S.W., Moore, C.C., Schuna J.M.Jr, **Barreira, T.V.**, et al. (Jun, 2018). Classification accuracy of a moderate intensity cadence (steps/min) threshold during overground walking. Presented at the 64th ACSM Annual Meeting, Minneapolis, MN, USA.
79. Tudor-Locke C., Schuna J.M.Jr, Han H., Aguiar E.J., Larrivee, S., Hsia, D.S., et al. (June, 2018). Cadence (steps/min) and intensity during ambulation in 6-20 year olds: The CADENCE-Kids study. Presented at the 64th ACSM Annual Meeting, Minneapolis, MN, USA.
78. Bryan, K., Shields, T., McDaniel, A., **Barreira, T.V.**, & Tseh, W. (Jun, 2018). The effect of suspension training on health related fitness and functional movement. Presented at the 64th ACSM Annual Meeting, Minneapolis, MN, USA.
77. Williams, R., Heijnen, M., **Barreira, T.V.**, & Tseh, W. (Jun, 2018). Fitness-related benefits: land versus aqua. Presented at the 64th ACSM Annual Meeting, Minneapolis, MN, USA.
76. McDaniel, A.T., Bryan, K.D., Shields, A.T., Williams, R.E., Swiezy, R., Gonzalez, A., et al. (Jul, 2018). Fitness and Functional Movement Benefits Associated with Suspension Training Course Curriculum. Presented at the National Strength and Conditioning Association Annual Conference, Indianapolis, IN USA.
75. Augustine, J., Lefferts, W., Deblois, J.P, **Barreira, T.V.**, Liu, K., Taylor, B.A et al. (Nov, 2017). Sex differences in aortic stiffness, 24-hour aortic blood pressure, and cardiac deformation in marathon runners. Presented at the MARC annual Meeting, Harrisburg, PA, USA.
74. Tudor-Locke C., Han H., Ducharme S.W., Schuna J.M.Jr., **Barreira T.V.**, Aguiar E.J., et al. (Jun 2017). Waist and wrist accelerometer step outputs in treadmill and simulated activities of daily living. Presented at the International Society of Behavioral Nutrition and Physical Activity Annual Meeting, Victoria, Canada.
73. Han H., Schuna J.M.Jr., **Barreira T.V.**, Larrivee S., Johnson W.D., Aguiar E.J., et al. (Jun 2017). Zero cadence as a proxy indicator of seated sedentary behaviors in children and adolescents. Presented at the International Society of Behavioral Nutrition and Physical Activity Annual Meeting, Victoria, Canada.
72. Tudor-Locke, C., Schuna, J.M.Jr, **Barreira, T.V.**, Han, H., Aguiar, E.J., Ducharme, S., et al. (Jun, 2017). The relationship between steps/min and intensity on a treadmill in 21-40 year old adults. Presented at the 63th ACSM Annual Meeting, Denver, CO, USA.
71. Champion, H., Ek, Susanna, Frazier, R., Kinslow, A., McClain, C., **Barreira, T.V.**, et al. (Jun, 2017). Effectiveness of neuromuscular electrical stimulation during rest and exercise. Presented at the 63th ACSM Annual Meeting, Denver, CO, USA.

70. Arboleda, C., Redmond, J., & **Barreira, T.V.** (Jun, 2017). MVPA, Peak 1, and Peak 30 min cadence relationship with cardiovascular health. Presented at the 63th ACSM Annual Meeting, Denver, CO, USA.
69. Tudor-Locke, C. **Barreira, T.V.**, Schuna, J.M.Jr, Han, H., Aguiar, E.J., Ducharme, S. et al. (Jun, 2017). The relationship between steps/min and intensity on a treadmill in 21-40-year-old adults. Presented at the 63th ACSM Annual Meeting, Denver, CO, USA.
68. Tseh, W., Champion, H., Ek, S., Kinslow, A., Frazier, R., McClain, C. et al. (Jun, 2017). Effectiveness of neuromuscular electrical stimulation during rest and exercise. Presented at the 63th ACSM Annual Meeting, Denver, CO, USA.
67. Dotger, B., Heffernan, K., & **Barreira, T.V.** (Apr, 2017). Exploring teacher candidates' physiological responses within clinical simulations: Design and methodological considerations. Presented at the American Educational Research Association conference, San Antonio, TX, USA.
- 66. Barreira, T.V.**, Redmond, J., Schuna, J.M.Jr, Brutsaert, T., & Tudor-Locke, C. (Nov, 2016) Can time spent at 0 steps/min be used as a proxy of sedentary behavior or sedentary time? Presented at the 6th International Congress on Physical Activity and Public Health, Bangkok, Thailand.
65. Tudor-Locke, C., Schuna, J.M. Jr., **Barreira, T.V.**, Mire, E.F., Broyles, S.T., Katzmarzyk, P.T., Johnson, W.D. (Nov, 2016). Reference peak 30-min cadence values for older adults: NHANES 2005-2006. Presented at the Gerontological Society of America Annual Meetings, New Orleans, LA, USA.
64. Columna, L., Dillon, S., Norris, M., Toole, K.C., **Barreira, T.V.**, & Heffernan, K., (Sep, 2016). Physical Activity Experiences Among Families of Children with Visual Impairments and Blindness. Presented at the 2016 North American Federation of Adapted Physical Activity symposium, Edmonton, Canada.
63. Columna, L., Dillon, S., Norris, M., Russo, N., Myers, B., Ashby, C., et al. (Sep, 2016). The Role of Interdisciplinary Interventions for Children with Disabilities: Physical Activity Programs for Children with Autism. Presented at the 2016 North American Federation of Adapted Physical Activity symposium, Edmonton, Canada.
62. Ferrari, G.L.M., Matsudo, V.K.R., Araujo, T.L., Oliveira, L.C., **Barreira, T.V.**, C., Katzmarzyk, P.T., et al. (Jun, 2016). Correlates of moderate-to-vigorous physical activity in Brazilian children. Presented at the 62th ACSM Annual Meeting, Boston, MA, USA.
61. Nunemacher, K.M., Augustine, J.A., Lefferts, W.K., **Barreira, T.V.**, & Heffernan, K. (Jun, 2016). Physical activity mediates the relationship between sleep quality and vascular health in older adults. Presented at the 62th ACSM Annual Meeting, Boston, MA, USA.

60. Heenan, B.K., Augustine, J.A., Lefferts, W.K., Nunemacher, K.M., **Barreira, T.V.**, & Heffernan, K. (Jun, 2016). Physical activity partially mediates the relationship between depressive symptoms and cognition in older adults. Presented at the 62th ACSM Annual Meeting, Boston, MA, USA.
59. **Barreira, T.V.**, Schuna, J.M.Jr, Martin, C.K., Church, T., Johnson, W.D., Tudor-Locke, C. (Jun, 2016). ActiGraph does not detect increases in steps/day when compared to pedometer. Presented at the 62th ACSM Annual Meeting, Boston, MA, USA.
58. Tseh, W., Candler-Miller, G., Goodwin, N., Patino, S., Lineback, R., O'Sullivan, T., et al. (May, 2016). Effectiveness of TENS on quadriceps muscular endurance during weight bearing exercise. Presented at SEACSM Conference, Greenville, SC, USA.
57. Larouche R., O.L. Sarmiento, S.T. Broyles, K.D. Denstel, T.S. Church, T.V. Barreira, et al. (May, 2016) Are the correlates of active school transport context-specific? The International Study of Childhood Obesity, Lifestyle and the Environment. Active Living Research Conference. Presented at the 62th ACSM Annual Meeting, Boston, MA, USA.
56. **Barreira, T.V.**, Schuna, J. M. Jr., Tudor-Locke, C., Chaput, J.P., Church, T.S., Fogelholm, M., et al. (Apr, 2016). Children's accelerometer-determined sedentary time reliability: A 12 country study. Presented at the Annual Shape America Convention and Expo, Minneapolis, MN, USA.
- 55.* Nunemacher, K., Augustine, J., Lefferts, W., **Barreira, T.V.**, & Heffernan, K. (Nov, 2015). Physical activity mediates the relationship between sleep quality and vascular health in older adults. Presented at the MARC annual Meeting, Harrisburg, PA, USA.
54. Carson, V., Lee, H., & **Barreira, T.V.** (Sep, 2015). Differences in accelerometer-derived physical activity and sedentary time among toddlers between two procedures for removing naps. Oral presentation at the International Conference on Diet and Activity Methods, Brisbane, Australia.
53. Schuna, J.M.Jr., **Barreira, T.V.**, & Tudor-Locke, C. (Jun, 2015). An Evaluation of the "Clock Drift" Phenomenon with the ActiGraph Accelerometer. Presented at 4th ICAMPAM. Limerick, Ireland.
52. **Barreira, T.V.**, Schuna, J.M.Jr., Chaput, J.P., Church, T., Fogelholm, M., Hu, G., et al. (Jun, 2015). Reliability of accelerometer-determined moderate-to-vigorous physical activity in children: A 12 country study. Presented at 4th ICAMPAM. Limerick, Ireland.
51. LeBlanc, A.G., Katzmarzyk, P.T., **Barreira, T.V.**, Broyles, S.T, Chaput, J.P., Tremblay, M.S., et al. (Jun, 2015). Correlates of sedentary behaviour across 12 countries: The International Study of Childhood Obesity, Lifestyle and the Environment (ISCOLE). Presented at the 15th ISBNPA Annual Meeting, Edinburgh, Scotland. *Abstract book*, 203.

50. **Barreira T.V.**, Broyles, S.T, Standage, M., Sarmiento, O.L., Lambert, E.V., Onywera, V., et al. (Jun, 2015). Relationship between moderate-to-vigorous physical activity and socio-economic status across 12 countries: The International Study of Childhood Obesity, Lifestyle and the Environment (ISCOLE). Presented at the 15th ISBNPA Annual Meeting, Edinburgh, Scotland. *Abstract book*, 126.
49. **Barreira, T.V.**, Schuna, J.M.Jr., Mire, E.F., Tudor-Locke, C. & Katzmarzyk, P.T. (May, 2015). Beyond moderate-to-vigorous physical activity: Comparisons of 24 h accelerometer measured activities in ISCOLE U.S. Presented at the 62th ACSM Annual Meeting, San Diego, CA, USA. *Medicine & Science in Sports & Exercise*, 47(5S), 110.
48. Schuna, J.M.Jr., **Barreira, T.V.**, & Tudor-Locke, C. (May, 2015). Evaluation of the step censoring method in refining steps/day estimates from the ActiGraph GT3X+ accelerometer. Presented at the 62th ACSM Annual Meeting, San Diego, CA, USA. *Medicine & Science in Sports & Exercise*, 47(5S), 429.
47. Oliveira, L.C., Araujo, T., Ferrari, G.L.M., Matsudo, V.K.R., **Barreira, T.V.**, Mire, E.F., et al. (May, 2015). Accelerometer-determined peak cadence and weight status in Brazilian children. Presented at the 62th ACSM Annual Meeting, San Diego, CA, USA. *Medicine & Science in Sports & Exercise*, 47(5S), 481.
46. Ferrari, G.L.M., Araujo, T., Oliveira, L.C., Matsudo, V.K.R., **Barreira, T.V.**, Mire, E.F., et al. (May, 2015). Accelerometer-determined physical activity and sedentary behavior associations with body composition in Brazilian children. Presented at the 62th ACSM Annual Meeting, San Diego, CA, USA. *Medicine & Science in Sports & Exercise*, 47(5S), 482.
45. Araujo, T., Oliveira, L.C., Ferrari, G.L.M., Matsudo, V.K.R., **Barreira, T.V.**, Mire, E.F., et al. (May, 2015). Socioeconomic status indicators and accelerometer-determined physical activity in Brazilian children. Presented at the 62th ACSM Annual Meeting, San Diego, CA, USA. *Medicine & Science in Sports & Exercise*, 47(5S), 918.
44. Matsudo, V.K.R., Ferrari, G.L.M., Araujo, T., Oliveira, L.C., Mire, E.F., **Barreira, T.V.**, et al. (May, 2015). Weekday TV viewing and accelerometer-determined physical activity and sedentary behavior in Brazilian children. Presented at the 62th ACSM Annual Meeting, San Diego, CA, USA. *Medicine & Science in Sports & Exercise*, 47(5S), 918.
43. Chaput, J.P., Katzmarzyk, P.T., LeBlanc, A.G., Tremblay, M.S., **Barreira, T.V.**, Broyles, S.T., et al. (May, 2015). Associations between sleep patterns and lifestyle behaviors in children: an international. Presented at the European Congress on Obesity, Prague, Czech Republic. *Obesity Facts* 8(Suppl. 1), 112.
42. **Barreira, T.V.**, Schuna, J.M.Jr., Zderic, T.W., Hamilton, M.T., & Tudor-Locke, C. (Oct, 2014). ActiGraph-measured breaks in sedentary behavior: Are they real transitions from sitting to standing? Presented at the MARC annual Meeting, Harrisburg, PA, USA. *International Journal of Exercise Science*, 9(3), 9.

41. Schuna, J.M.Jr., **Barreira, T.V.**, Proenca, M., & Tudor-Locke, C. (May, 2014). Effect of epoch length on patterns of stepping cadence in fourth-grade school children. Presented at the 61th ACSM Annual Meeting, Orland, FL, USA. *Medicine & Science in Sports & Exercise*, 46(5S), 509.
39. Tudor-Locke, C., Dentre, K.N., Mire, E.F., **Barreira, T.V.**, Schuna, J.M.Jr., & Katzmarzyk, P.T. (May, 2014). Model accelerometer paradata from The International Study of Childhood Obesity, Lifestyle and the Environment (ISCOLE). Presented at the 61th ACSM Annual Meeting, Orland, FL, USA. *Medicine & Science in Sports & Exercise*, 46(5S), 715.
- 38. Barreira, T.V.**, Harrington, D.M., Tudor-Locke, C., Schuna, J.M.Jr., Champagne, C.M., Broyles, S.T., et al. (Apr, 2014). Post intervention differences in steps accumulated at moderate-intensity cadences. Presented at the AAHPERD National Convention, St. Louis, Missouri. *Research Quarterly for Exercise and Sport*, 85(S1), A52.
- 37. Barreira, T.V.**, Zderic, T.W., Craft, L.L., Gapstur, S.M., & Hamilton, M.T. (Apr, 2014). Reliability of sedentary behavior (sitting) among healthy women. Presented at the AAHPERD National Convention, St. Louis, MO, USA. *Research Quarterly for Exercise and Sport*, 85(S1), A41.
- 36. Barreira, T.V.**, & Katzmarzyk, P.T. (Nov, 2013). Using anthropometrics and behavioral patterns to distinguish metabolically healthy obese from non-metabolically healthy obese youth. Presented at the Annual Meetings of the Obesity Society, Atlanta, GA, USA. *Obesity*, 19(n1s), S236.
35. Kang, M, Bjornson, K., **Barreira, T.V.**, Ragan, B.G., & Song, K. (Jun, 2013). Influence of children's age and gender in establishing reliable physical activity estimates. Presented at 3rd International Conference on Ambulatory Monitoring of Physical Activity and Movement (ICAMPAM). Amherst, MA, USA.
- 34. Barreira, T.V.**, Schuna, J.M.Jr., Tudor-Locke, C., & Katzmarzyk, P.T., (May, 2013). Moderate-to-vigorous physical activity thresholds associated with metabolic syndrome risk factors. Presented at the 60th ACSM Annual Meeting, Indianapolis, IN. *Medicine & Science in Sports & Exercise*, 45(5S), 257-262.
- 33. Barreira, T.V.**, Harrington, D.M., & Katzmarzyk, P.T. (Mar, 2013). Accelerometer measured physical activity differs based on ideal cardiovascular health level: NHANES 2003-2006. Presented at the Epidemiology and Prevention/Nutrition, Physical Activity and Metabolism 2013 Scientific Sessions, New Orleans, LA, USA. *Circulation*, 127, AP414.
32. Tudor-Locke, C., Schuna, J.M.Jr., **Barreira, T.V.**, Mire, E.F., Broyles, S.T., Katzmarzyk, P.T., & Johnson, W.D. (Mar, 2013). Normative Accelerometer-determined Steps/day from 6-85 Years of Age: NHANES 2005-2006. Presented at the Epidemiology and Prevention/Nutrition, Physical Activity and Metabolism 2013 Scientific Sessions, New Orleans, LA, USA. *Circulation*, 127, A056.

- 31. Barreira T.V.,** Katzmarzyk, P.T., Johnson, W.D., & Tudor-Locke, C. (Oct, 2012) Peak cadence indicators and cardiovascular disease risk factors in children and adolescents. Presented at the International Congress on Physical Activity and Public Health, Sydney, Australia. *Journal of Science and Medicine in Sport*, 15(S1), S93-S94.
- 30. Barreira T.V.,** Broyles, S.T., Gupta, A.K., & Katzmarzyk, P.T. (Oct, 2012) The relationship between waist circumference and abdominal and total body fat in children and adolescents: Sex and race differences. Presented at the International Congress on Physical Activity and Public Health, Sydney, Australia. *Journal of Science and Medicine in Sport*, 15(S1), S273-S274.
- 29. Barreira T.V.,** Brouillette, R.M., Foil, H.C., Keller, J.N., & Tudor-Locke, C. (Oct, 2012) Comparison of older adults' steps/day using nl-1000 pedometer and two GT3X+ accelerometer filters. Presented at the International Congress on Physical Activity and Public Health, Sydney, Australia. *Journal of Science and Medicine in Sport*, 15(S1), S293.
- 28. Barreira T.V.,** Rood, J., Martin, C., & Katzmarzyk, P.T. (Oct, 2012) Relationship between physical activity related energy expenditure and cardiovascular disease factors among adults. Presented at the International Congress on Physical Activity and Public Health, Sydney, Australia. *Journal of Science and Medicine in Sport*, 15(S1), S230-S231.
27. Rowe, D.A., Kang, M., Sutherland, R., Holbrook, E.A., **Barreira, T.V.,** & Watson, M. (Jun, 2012). Evaluation of inactive adults' ability to maintain a moderate-intensity walking pace. Presented at the 59th ACSM Annual Meeting, San Francisco, CA, USA. *Medicine and Science in Sports and Exercise*, 44(5), 696.
- 26. Barreira, T.V.,** Tudor-Locke, C., Johnson, W.D., & Katzmarzyk, P.T. (Mar, 2012). Stepping patterns of children and adolescents in the 2005-2006 NHANES. Presented at the AAHPERD National Convention, Boston, MA, USA. *Research Quarterly for Exercise and Sport*, 83(S1), A69.
- 25. Barreira, T.V,** Harrington, D.M, Staiano, A.E., Heymsfield, S.B., Gimble, J.M., & Katzmarzyk, P.T. (Oct, 2011). Bone mineral density and depot-specific adiposity in white and African American adults. Presented at the Annual Meetings of the Obesity Society, Orlando, FL, USA. *Obesity*, 19(n1s), S236.
- 24. Barreira, T.V.,** Tudor-Locke, C., Champagne, C., Broyles, S.T., Harsha, D., Kennedy, B. M., et al. (Jun, 2011). Comparison of Yamax pedometer and GT3X accelerometer steps in a free-living sample. Presented at the 58th ACSM Annual Meeting, Denver, CO, USA. *Medicine and Science in Sports and Exercise*, 43(5), 696.
- 23. Barreira, T.V.,** Kang, M., Brinthaup, T.M., Owusu, A., Weatherby, N.L., & Hart, P.D. (Jun, 2011). Quantitative analysis of the 2008 Physical Activity Guidelines for Americans. Presented at the World Congress on Exercise is Medicine, Denver, CO, USA. *Medicine and Science in Sports and Exercise*, 43(5), 343.

22. Tseh, W., **Barreira, T.V.**, & Leedy, A.M. (Jun, 2011). Validation of the Bod Pod® self-testing body composition tracking system in adult males and females. Presented at the 58th ACSM Annual Meeting, Denver, CO, USA. *Medicine and Science in Sports and Exercise*, 43(5), 319.
21. Hart, P.D., **Barreira, T.V.**, & Kang, M. (Mar, 2011). Physical inactivity time and risk of CVD among U.S. children. Presented at the AAHPERD National Convention, San Diego, CA, USA. *Research Quarterly for Exercise and Sport*, 82(S1), A59.
20. Kang, M. Hart, P.D., & **Barreira, T.V.**, (Mar, 2011). Physical inactivity time and risk of metabolic syndrome. Presented at the AAHPERD National Convention, San Diego, CA, USA. *Research Quarterly for Exercise and Sport*, 83(S1), A60.
19. Hart, P.D., **Barreira, T.V.**, & Kang, M. (Jun, 2010). Accelerometer-determined physical activity and cardiovascular disease risk factors among U.S. adults. Presented at the 57th ACSM Annual Meeting, Baltimore, MD, USA. *Medicine and Science in Sports and Exercise*, 42(5), 251.
18. Kang, M., **Barreira, T.V.**, Holbrook, E.A., & Rowe, D.A. (Jun, 2010). Effect of different epoch lengths on activity counts using the Actigraph GT1M accelerometer. Presented at the 57th ACSM Annual Meeting, Baltimore, MD, USA. *Medicine and Science in Sports and Exercise*, 42(5), 482.
17. Herrmann, S.D., **Barreira T.V.**, Kang, M., & Ainsworth, B.E. (Jun, 2010) How many hours is enough? Optimal accelerometer wear time to reflect daily physical activity. Presented at the World Congress on Exercise is Medicine, Baltimore, MD, USA. *Medicine and Science in Sports and Exercise*, 42(5), 485.
16. Hart, P.D., **Barreira, T.V.**, & Kang, M. (Jun, 2010). Muscle strengthening activities and health-related quality of life among U.S. adults. Presented at the World Congress on Exercise is Medicine, Baltimore, MD, USA. *Medicine and Science in Sports and Exercise*, 42(5), 349-350.
15. **Barreira, T.V.**, Bennett, J.P., Sidman, C., & Kang, M., (Mar, 2010). Validity of pedometers to measure step counts during dance. Presented at the AAHPERD National Convention, Indianapolis, IN, USA. *Research Quarterly for Exercise and Sport*, 81(S1), A32.
14. **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. Presented at the 56th ACSM Annual Meeting, Seattle, WA, USA. *Medicine and Science in Sports and Exercise*, 41(5), 352-353.
13. Kang, M., Basset, D.R., Tudor-Locke, C., **Barreira, T.V.**, & Ainsworth, B. (May, 2009). Validity of habitual physical activity: Effects of seasonal and monthly variability on measurement of pedometer data. Paper presented at the 56th ACSM Annual Meeting, Seattle, WA, USA. *Medicine and Science in Sports and Exercise*, 41(5), 353-354.

12. **Barreira, T.V.**, Holbrook, E.A., Parson, C., & Kang, M. (Apr, 2009). Relationship between objectively measured physical activity and chronic stress level. Presented at the AAHPERD National Convention, Tampa, FL, USA. *Research Quarterly for Exercise and Sport*, 80(S1), A40.
11. Holbrook, E.A., **Barreira, T.V.**, Emison, K., & Kang, M. (Apr, 2009). Assessing the comprehensibility of physical activity intensity cues. Presented at the AAHPERD National Convention, Tampa, FL, USA. *Research Quarterly for Exercise and Sport*, 80(S1), A40.
10. Holbrook, E.A., **Barreira, T.V.**, Parson, C., & Kang, M. (Apr, 2009). Influence of activity log on a goal-based walking program. Presented at the AAHPERD National Convention, Tampa, FL, USA. *Research Quarterly for Exercise and Sport*, 80(S1), A40.
9. **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 55th ACSM Annual Meeting, Indianapolis, IN, USA. *Medicine and Science in Sports and Exercise*, 40(5), S201.
8. Basset, 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 55th ACSM Annual Meeting, Indianapolis, IN, USA. *Medicine and Science in Sports and Exercise*, 40(5), S203.
7. Kang, M., Basset, 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 55th ACSM Annual Meeting, Indianapolis, IN, USA. *Medicine and Science in Sports and Exercise*, 40(5), S212.
6. **Barreira, T.V.**, Kang, M., Davis, K.L., & Binkley, H. (Apr, 2008) Assessing reliability of medicine ball throw using generalizability theory. Presented at the AAHPERD National Convention, Fort Worth, TX, USA. *Research Quarterly for Exercise and Sport*, 79(S1), A32.
5. Kang, M., Rowe, D.A., **Barreira, T.V.**, Robinson, T.S., Kemble, C.D., & Mahar, M.T. (Apr, 2008) Cross-validation of individual information-centered method for handling step count missing data. Presented at the AAHPERD National Convention, Fort Worth, TX, USA. *Research Quarterly for Exercise and Sport*, 79(S1), A34.
4. **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, LA, USA. *Medicine and Science in Sports and Exercise*. 39(5), S181.
3. 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 54th ACSM Annual Meeting, New Orleans, LA, USA. *Medicine and Science in Sports and Exercise*, 39(5), S177.

2. Kang, M., Caputo, J.L., Farley, R.S., **Barreira, T.V.**, Bettle, J.M., & Renfrow, M.S. (May, 2007). Validation of the Actiheart monitor in the laboratory setting. Paper presented at the 54th ACSM Annual Meeting, New Orleans, LA, USA. *Medicine and Science in Sports and Exercise*, 39(5), S180.
1. 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 54th ACSM Annual Meeting, New Orleans, LA, USA. *Medicine and Science in Sports and Exercise*, 39(5), S211-S212.

*Student award recipient

Refereed Presentations with Abstracts Published in Conference Proceedings

- *39. Trevisan, I.B., Vanderlei, L.C.M., Proenca, M.D.H.L., **Barreira, T.V.**, Santos, C.P., Souzam A.S., et al. (Sep, 2019). Qualidade do sono associada ao nível de atividade física e modulação autonômica cardíaca de tabagistas. Presented at I Congresso Brasileiro de Fisioterapia Respiratória nos Distúrbios de Sono. Belo Horizonte, Brazil.
38. Ramos, E.M.C., Proenca, M.D.H.L., Barreira, T.V., Santos, C.P., Trevisan, I.B., Ferreira, A.D., et al. (Oct, 2018). Fatores determinantes para o sucesso de tratamentos que utilizam exercício físico para cessação do tabagismo. Presented at XIX Simpósio Internacional de Fisioterapia Cardiorrespiratória e Fisioterapia em Terapia Intensiva. Manaus, Brazil.
37. Proenca, M.D.H.L., Ramos, E.M.C., **Barreira, T.V.**, Santos, C.P., Trevisan, I.B., Ferreira, A.D., et al. (Oct, 2018). Eficácia de um programa de exercício aeróbico na cessação do tabagismo: um ensaio clínico randomizado. Presented at XIX Simpósio Internacional de Fisioterapia Cardiorrespiratória e Fisioterapia em Terapia Intensiva. Manaus, Brazil.
36. Williams, R., Heijnen, M., **Barreira, T.V.**, & Tseh, W. (Jun, 2018). Fitness-related benefits: land versus aqua. Presented at the Southeast American College of Sports Medicine Annual Meeting, Chattanooga, TN, USA.
35. Tudor-Locke, C., Schuna, J.M.Jr., **Barreira, T.V.**, Aguiar, E.J., Ducharme, S.W., Moore, C.C. et al. (Oct, 2017). Moderate and vigorous intensity cadence (steps/min) walking thresholds in 41-60 year old adults. Presented at the New England American College of Sports Medicine Fall Conference, Providence, RI.
34. Migueles J.H., Ducharme, S.W., Aguiar, E.J., Moore, C.C., Schuna, J.M.Jr., **Barreira, T.V.**, et al. (Oct, 2017). An evaluation of the accuracy of 4 different motion sensors at self-paced walking overground. Presented at the New England American College of Sports Medicine Fall Conference, Providence, RI.

33. Gould, Z.R., Aguiar, E.J., Ducharme, S.W., Moore, C.C., Schuna, J.M.Jr., **Barreira, T.V.**, et al. (Oct, 2017). Cadence (steps/min) and intensity relationship by self-reported activity levels in 21-60 year olds. Presented at the New England American College of Sports Medicine Fall Conference, Providence, RI.
32. Moore, C.C., Aguiar, E.J., Ducharme, S.W., Schuna, J.M.Jr., **Barreira, T.V.**, Tudor-Locke, C. et al. (Oct, 2017). Cadence (steps/min) thresholds using different indicators of moderate and vigorous intensity. Presented at the New England American College of Sports Medicine Fall Conference, Providence, RI.
31. Ducharme, S.W., Aguiar, E.J., Moore, C.C., Schuna, J.M.Jr., **Barreira, T.V.**, Tudor-Locke, C. et al. (Oct, 2017). Predicting overground and treadmill walking intensity: does cadence stand alone? Presented at the New England American College of Sports Medicine Fall Conference, Providence, RI.
30. Aguiar, E.J., Ducharme, S.W., Moore, C.C., Schuna, J.M.Jr., **Barreira, T.V.**, Tudor-Locke C. et al. (Oct, 2017). ActivPAL-determined cadence (steps/min) thresholds associated with moderate and vigorous intensity walking. Presented at the New England American College of Sports Medicine Fall Conference, Providence, RI.
29. Tudor-Locke, C., Aguiar, E.J., Han, H., Ducharme, S.W., Lim, J., Moore, C.C., et al. (Jun, 2017). Accelerometer-determined steps/min versus activity counts/min for discriminating moderate intensity ambulation. Presented at the 5th International Conference on Ambulatory Monitoring of Physical Activity and Movement (ICAMPAM), Bethesda, MD.
28. Schuna, J.M.Jr., **Barreira, T.V.**, Johnson, W., & Tudor-Locke, C. (Jun, 2017). Activity counts/minute from two non-proprietary algorithms compared to those obtained from ActiLife. Presented at the 5th International Conference on Ambulatory Monitoring of Physical Activity and Movement (ICAMPAM), Bethesda, MD.
27. Han, H., Aguiar, E.J., Schuna, J.M.Jr., **Barreira, T.V.**, Johnson, W., & Tudor-Locke, C. (Jun, 2017). Cadence cut-point thresholds for moderate-intensity ambulatory activity in children and adolescents: The CADENCE-Kids study. Presented at the 5th International Conference on Ambulatory Monitoring of Physical Activity and Movement (ICAMPAM), Bethesda, MD.
26. **Barreira, T.V.**, Redmond, J., Schuna, J.M.Jr, & Tudor-Locke, C., (Jun, 2017). Accuracy of an automated algorithm to detect nocturnal sleep in adults using 24-h waist accelerometry. Presented at the 5th International Conference on Ambulatory Monitoring of Physical Activity and Movement (ICAMPAM), Bethesda, MD.
25. Tseh, W., Champion, H., Ek, S., Frazier, R., Kinslow, A., McClain, C., et al. (Feb, 2017). Effectiveness of neuromuscular electrical stimulation during rest and exercise. Presented at SEACSM Conference, Greenville, SC.

- Tseh, W., Candler-Miller, G., Goodwin, N., Patino, S., Lineback, R., O'Sullivan, T., et al. (Feb, 2016). Effectiveness of TENS on quadriceps muscular endurance during weight bearing exercise. Presented at SEACSM Conference, Greenville, SC.
- 24. Barreira T.V.**, Broyles, S.T, Schuna, J.M.Jr., P.T. Katzmarzyk, & C. Tudor-Locke. (Feb, 2015). The number of steps accumulated during school hours is predictive of US children attaining recommended total daily steps/day: ISCOLE. Presented at the National Physical Activity Plan Congress, Washington D.C.
- 23.** Bradford, J., Berni, A., Peedin, R., Dispennette, L., Guendner, R., Long, L., et al. (Feb, 2015). Reliability and validity of bioelectrical impedance analyzer and air displacement plethysmography. Presented at SEACSM, Jacksonville, FL.
22. Renfrow, M.S., **Barreira, T.V.**, Tseh, W., & Kang, M. (Mar, 2012). Concurrent validity of 7-site skinfold measurements taken by exercise science students. Presented at the 12th Measurement and Evaluation Symposium, Boston, Massachusetts.
- 21. Barreira, T.V.**, Tudor-Locke, C., Kang, M., Johnson, W.D., & Katzmarzyk, P. T. (Mar, 2012). Reliability and correlation attenuation in physical activity measurement. Presented at the 12th Measurement and Evaluation Symposium, Boston, Massachusetts.
- 20. Barreira, T.V.**, Tudor-Locke, C., Champagne, C., Broyles, S.T., Harsha, D., Kennedy, B. M., et al. (May, 2011). Patterns of change in daily step count, where does the change happen? Presented at the 2nd International Conference on Ambulatory Monitoring of Physical Activity and Movement, Glasgow, Scotland.
19. Leedy, A. M., Tseh, W., & **Barreira, T.V.** (Mar, 2011). Validation of the Bod Pod® self-testing body composition tracking system in adult males and females. Presented at the National Conference of Undergraduate Research in Ithaca, NY.
18. Walsh, T., Tseh, W., & **Barreira, T.V.** (Mar, 2011). Comparison of percent body fat between body mass index prediction equation against dual energy x-ray absorptiometry amongst a young adult, athletic population. Presented at the National Conference of Undergraduate Research in Ithaca, NY.
17. Johnson, E., Poff, C., Tseh, W., & **Barreira, T.V.** (March, 2011). Validation of the Bod Pod® self-testing body composition tracking system in college athletes. Presented at the National Conference of Undergraduate Research in Ithaca, NY.
- 16. 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. Presented at the 3rd International Congress on Physical Activity and Public Health, Toronto, Canada.

15. 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. Presented at the 3rd International Congress on Physical Activity and Public Health, Toronto, Canada.
14. Kang, M., **Barreira, T.V.**, & Hart, P.D. (May, 2010). Exploratory analysis of the 3DPA category functions. Presented at the 3rd International Congress on Physical Activity and Public Health, Toronto, Canada.
13. Hart, P.D., **Barreira, T.V.**, & Kang, M. (Nov, 2009). Correlates and predictors of physical inactivity among Tennessee adults. Presented at the TAHPERD Convention, Murfreesboro, Tennessee.
12. **Barreira, T.V.**, Rowe, D.A., & Kang, M. (Nov, 2009). Parameters of walking and jogging in healthy young adults. Presented at the TAHPERD Convention, Murfreesboro, Tennessee.
11. **Barreira, T.V.**, Holbrook, E.A., & Kang, M. (Feb, 2009). Validity and reliability evidence of Omron pedometers. Presented at the SEACSM Annual Meeting, Birmingham, Alabama.
10. Columna, L., Velez, L., Garcia, C., Garcia, L., **Barreira, T.V.**, Ayim, E., & Hetland, K.M. (Apr, 2008). Multicultural learning through physical education. Presented at the AAHPERD National Convention, Fort Worth, Texas.
9. **Barreira, T.V.**, Otto, S., Holbrook, E.A., & Kang, M. (Feb, 2008). Individual information-centered approach for handling children pedometer missing data. Presented at the SEACSM Annual Meeting, Birmingham, Alabama.
8. Kang, M., Marshall, S.J., **Barreira, T.V.**, & Lee, J. (Oct, 2007). Effect of pedometer-based physical activity intervention: a meta-analysis. Presented at the Diversity in Physical Activity and Health: Measurement and Research Issues and Challenges Conference, Dallas, Texas.
7. **Barreira, T.V.**, Kang, M., Rowe, D.A., Robinson, T.S., Kemble, C.D., & Mahar, M.T. (Oct, 2007). Validation of an individual information-centered method for handling accelerometer missing data. Presented at the Diversity in Physical Activity and Health: Measurement and Research Issues and Challenges Conference, Dallas, Texas.
6. **Barreira, T.V.**, Owusu, A., Kang, M., & Weatherby, N.L. (Apr, 2007). Reliability of performance score: Addressing the ideal number of attempts during triple jump competition. Paper presented at the Middle Tennessee State University Scholars Week (p.49), Murfreesboro, Tennessee.
5. **Barreira, T.V.**, Kang, M., Colclough, S., & Weatherby, N.L. (Apr, 2007). Assessing reliability of golf scores using generalizability theory. Presented at the Middle Tennessee State University Scholars Week (p.48), Murfreesboro, Tennessee.

4. **Barreira, T.V.**, Kang, M., Caputo, J.L., Farley, R.S., Bettel, J.M., & Renfrow, M.S. (Feb, 2007). Validation of the RT3 monitor to estimate energy expenditure. Oral presentation, presented at the SEACSM Annual Meeting (p. 46), Charlotte, North Carolina.
3. Renfrow, M.S., Kang, M., Caputo, J.L., Farley, R.S., **Barreira, T.V.**, & Bettel, J.M. (Feb, 2007). Validation of heart rate and energy expenditure in the Actiheart monitor in a free-living setting. Presented at the SEACSM Annual Meeting (p. 35), Charlotte, North Carolina.
2. Kang, M., & **Barreira, T.V.** (Aug, 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.
1. Bennett, J.P., **Barreira, T.V.**, Biggs, K., & Corbin, A. (Mar, 2003). "Appalachian Big Set: 'Real' American Folk Dance to Country Western Dances of Today!" Proceeding for the National Dance Association from the 2003 AAHPERD National Convention. Philadelphia, Pennsylvania.

GRANTS

Title: Racial differences in arterial stiffness and cognitive function (R03)

Funding Agency: NIH

Role: Statistician

Date: 5/2017- 9/2019

Amount: \$150,000

Title: Development of Youth Staff Training Programs

Funding Agency: Fight for Hearts

Role: PI

Date: 6/2019- 12/2019

Amount: \$3,000

Title: Cadence-adults: cadence and intensity across the adult lifespan (R01)

Funding Agency: NIH

Role: Consultant

Date: 8/2015-3/2020

Title: Reliability and Validity of the Adapted Physical Education Assessment Scale (APEAS II).

Funding Agency: Shape America

Role: PI

Date: 5/2018-9/2018

Amount: \$7,432

Title: “Honestly, I’m sweating!”: Exploring physiological responses to clinical simulations.

Funding Agency: Syracuse University Office of Research Internal Grant Program

Role: Co-PI

Date: 4/01/16-12/01/16

Amount: \$7,000

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

Funding Agency: AAHPERD Research Consortium

Role: Research Assistant/Data analysis

Date: 4/01/09-5/01/10

Amount: \$8,352

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

Funding Agency: MTSU, FRCAC

Role: Research Assistant/Data analysis

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

Amount: \$7,188

Title: Accurate measurement of physical activity using accelerometer

Funding Agency: MTSU, Instructional Evaluation and Development Grant

Role: Research Assistant/Data analysis

Date: 3/27/07-12/30/07

Amount: \$4,497

Title: Actiheart validation study

Funding Agency: MINI MITTER Research Grant

Role: Research Assistant

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

Amount: \$3,580

Title: Validation of Actiheart monitor for assessing physical activity participation

Funding Agency: MTSU, FRCAC

Role: Research Assistant/Data analysis

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

Amount: \$6,300

Under review

Title: Racial differences in arterial stiffness and cognitive function (R21)

Funding Agency: NIH

Role: PI

Date: 6/2020- 6/2022

Amount: \$399,000

Not funded

Title: Accelerometry-based loading dose as a factor in female bone growth (R21)
Funding Agency: NIH
Role: Co-I
Amount: \$275,000

Title: Dynamic loading as a key modulator of musculoskeletal growth (R01)
Funding Agency: NIH
Role: Co-I
Amount: \$2,451,205

Title: Macrovascular stiffness and neurovascular coupling in older adults (R01)
Funding Agency: NIH
Role: Co-I
Amount: \$1,454,080

Title: Exercising across the blood-brain barrier
Funding Agency: American Heart Association
Role: Co-PI
Amount: \$150,000

Title: Adolescent exercise as a factor in metabolism, vascular function and the musculoskeleton
Funding Agency: Syracuse University and SUNY Upstate
Role: Co-PI
Amount: \$100,000

Title: Predictors of post rehabilitation function for frail and post-surgery in older adults
Funding Agency: Syracuse University and SUNY Upstate
Role: Co-PI
Amount: \$100,000

Title: Developing an “universal” algorithm for estimation of physical activity intensity and step counts
Funding Agency: Syracuse University
Role: PI
Amount: \$11,000

Title: Developing a motor learning visual feedback speech therapy program
Funding Agency: IES – Institute for Educational Sciences
Role: Co-PI
Amount: \$1,499,524

Title: “Honestly, I’m sweating!”: Exploring physiological responses to clinical simulations
Funding Agency: The Spencer Foundation
Role: Co-PI
Amount: \$50,000

Title: Osteogenic exercise: Linking accelerations, biomarkers and bone structural growth in adolescent girls

Funding Agency: NIH

Role: Co-I

Amount: \$750,000

Title: Exercise as a factor in metabolism, vascular function and the musculoskeleton: exploring racial disparities in adolescent females

Funding Agency: NIH

Role: Co-I

Amount: \$250,000

Title: Combat, PTSD, and CVD risk in young military veterans

Funding Agency: American Heart Association

Role: Co-I

Amount: \$150,000

Title: Syracuse Biostatistics Institute (SBI): Training veterans and non-veterans to analyze health data

Funding Agency: NIH

Role: Co-I

Amount: \$746,655

SERVICE

Journal Editor

Measurement in Physical Education and Exercise – Physical Activity Section Editor 2015-
BMC Obesity - Epidemiology and Ethnicity Associate Editor 2014-2018

Manuscript Review

American Journal of Physical Anthropology

American Journal of Human Biology

Annals of Human Biology

Applied Physiology, Nutrition, and
Metabolism

BMC Public Health

Canadian Health Measures Survey

Childhood Obesity

European Journal of Sports Science

Gait & Posture

Health Reports

Internal Journal of Behavioral Nutrition and
Physical Activity

International Journal of Exercise Science

International Journal of Pediatric Obesity

International Journal of Sports Medicine

Journal for the Measurement of Physical
Behaviour

Journal of Clinical Endocrinology &
Metabolism

Journal of Exercise Science & Fitness

Journal of Physical Activity and Public Health

Journal of Science and Medicine in Sport

Journal of Sports Science

Journal of Strength and Conditioning
Research

Journal on Aging and Physical Activity

Korean Society for Measurement and

Evaluation in Physical Education and Sports
Science Journal

Measurement in Physical Education and
Exercise Science
Medical Engineering and Physics
Medicine and Science in Sports and Exercise
Military Medicine
Nutrients
Obesity
Ophthalmology
Pediatric Exercise Science

PeerJ
Physiological Measurement
Physiotherapy Theory and Practice
PLoS ONE
Research Quarterly for Exercise and Sport
Sensors
Translational Journal of the American College
of Sports Medicine

Other service

- Abstract reviewer SHAPE America National Convention 2020.
- Co-chair of the Measurement and Evaluation Special Interest Group from SHAPE America 2019-
- Member of the American College of Sports Medicine Mid-Atlantic Chapter Research Committee 2018-2020
- Abstract reviewer American College of Sports Medicine Mid-Atlantic Chapter 2017-2019.
- Board Member of the Onondaga Cycling Club 2015-2017
- Member of the review panel for the research presentation of the Measurement and Evaluation Council of the AAPAR of the AAHPERD Convention Program, 2012.
- Member of the review panel for the research presentation of TAHPERD Convention Program, 2009.
- Member of the Physical Activity Measurement and Surveillance Council of the International Society for Physical Activity and Health, 2010-Present.
- Advisory Committee member of the Measurement and Evaluation Council of the AAPAR of the AAHPERD 2009-2013
- AAHPERD Student Service Committee from 2007-2008.
- Student representative at the 2008 AAHPERD Assembly, Fort Worth, TX,.
- Staff member at the 2007 AAHPERD Undergraduate Student Leadership Conference at Estes Park, Colorado.
- Writer for the AAHPERD monthly newsletter Update.
- Measurement and Statistical Senior-Consultant at the Kinesmetrics Laboratory at MTSU, 2008-2010.
- Founder and Past-President of the Kinesmetrics Club at MTSU.
- Founder and Past-President of the Triathlon Club at MTSU.
- Past Vice-President of the Eta Sigma Pi Club (health and human performance major's club).