

CURRICULUM VITAE

2025

Peter D. Hart, Ph.D.

Tallahassee, FL 32308

pdhart@outlook.com

EDUCATION BACKGROUND:

Ph.D. Human Performance

Concentration: Kinesmetrics

Middle Tennessee State University – Murfreesboro, TN

GPA: 4.00

Ph.D. Community Health

Specialization: Epidemiology, Statistics, & Demography

University of Tennessee – Knoxville, TN

GPA: 3.63

M.A. Health and Exercise Science

Furman University – Greenville, SC

GPA: 3.69

B.S. Health Education

Georgia College – Milledgeville, GA

GPA: 3.74

ACADEMIC POSITIONS:

Full Professor – Exercise Science

Glenville State University - College of Health Sciences

August 2023 – June 2024

Faculty Member - Southern New Hampshire University

MBA Program – Math/Statistics for Business

Graduate Psychology Program - Foundations in Statistics

June 2013 – Present

Faculty Member - Grand Canyon University

Doctoral Program - Statistics

May 2020 – May 2023

Associate Professor, Tenured. - Health Promotion

Montana State University-Northern - College of Education, Arts & Sciences, and Nursing

Fall 2013 – Spring 2019

Postdoctoral Research Fellow

Middle Tennessee State University – Murfreesboro, TN

Summer 2012

Measurement and Statistical Consultant - Kinesmetrics Laboratory
Middle Tennessee State University - Department of Health and Human Performance
Fall 2009 to Spring 2012

Graduate Teaching Assistant - Department of Health and Human Performance
Middle Tennessee State University
Fall 2009 to Spring 2012

Statistics Instructor
Community Colleges
1999 to 2009

Graduate Teaching Associate - Department of Health and Safety Sciences
University of Tennessee – Knoxville, TN
Fall 1996 to Spring 1999

TEACHING POSITIONS:

Math Teacher
Leon County Schools - Rickards High School – Tallahassee, FL
Fall 2022 to June 2023

Math Teacher
Duval County Schools – Ed White High School – Jacksonville, FL
Fall 2012 to June 2013

EDITORIAL DUTIES:

Editor in Chief: Journal of Physical Activity Research (2016 thru present)

PROFESSIONAL MEMBERSHIPS:

Society for Epidemiologic Research, beginning 1998
American Statistical Association, beginning 1999
National Strength & Conditioning Association, beginning 1996
American College of Sports Medicine, beginning 2005

COURSES TAUGHT:

Advanced Statistics (Graduate)	Advanced Exercise Testing & Prescription
Foundations in Statistics (Graduate)	Kinesiology & Biomechanics
Math/Statistics for Business (Graduate)	Exercise Physiology
Data Analysis for HP Lab (Graduate)	Stress Management
Biostatistics	Health Promotion Imp/Assessment
Research Methods	Principles of Strength & Conditioning
Business Statistics	Curriculum Planning in Health Ed
Research and Statistical Methods	Personal Fitness
Physical Activity Epidemiology	Sport & Exercise Nutrition
Measurement & Eval in Human Performance	Program Planning in Community Health

INTERNSHIPS:

Cooper Institute for Aerobics Research – Dallas, TX
Summer 1997

The Pritikin Longevity Center - Miami Beach, FL
Summer 1996

Student Teacher - School Health
Fall 1994

RESEARCH-RELATED CERTIFICATION:

Applied Data Science with R and Python, Issuer: IBM

Tableau Desktop Specialist, Issuer: Tableau

SAS Certified Base Programmer for SAS 9

SAS Certified Advanced Programmer for SAS 9

SAS Certified Statistical Business Analyst Using SAS 9: Regression Modeling

SAS Certified Specialist: Base Programming Using SAS 9.4

SAS Certified Professional: Advanced Programming Using SAS 9.4

SAS Certified Professional: Clinical Trials Programming Using SAS 9.4

SAS Certified Specialist: Statistics for Machine Learning

SAS Certified Associate: Applied Statistics for Machine Learning

SAS Certified Associate: Modeling Using SAS Visual Statistics

IRB Member - Collaborative Institutional Training Initiative (CITI Program)
Renewed September 01, 2023 (ID: 57497331)

TEACHING-RELATED CERTIFICATION:

Certified Strength and Conditioning Specialist (CSCS)
National Strength and Conditioning Association

Certified Exercise Physiologist (EP-C)
American College of Sports Medicine (ACSM)

Master Certified Health Education Specialist (MCHES)
National Commission for Health Education Credentialing (NCHE)

Certified (Professional) High School Math (6-12) & School Health (K-12) & PE (K-12)
Florida Department of Education.

EDUCATIONAL PRESENTATIONS / SPECIAL LECTURES:

I think I Can: Relating a group of PA variables to a group of health variables using the canonical correlation coefficient and a calculator. RHS

Whereas I was blind, now ICC: A brief and conceptual review of the intraclass correlation coefficient (ICC) for test-retest reliability. Grand Canyon University.

Evaluating Construct Validity of a Newly Developed Scale using Exploratory Factor Analysis and Confirmatory Factor Analysis. E-Conference Presentation

Epidemiology, Physical Activity, Exercise, and Health. Presented at SAU

Norm-Referenced Reliability & Validity applied to Health Promotion. Presented at Montana State University – Northern

Criterion-Referenced Reliability & Validity applied to Health Promotion. Presented at Montana State University – Northern

Test and Survey Construction in Health Promotion. Presented at Montana State University - Northern

Using SPSS Macros for Meta-Analysis. Presented at Middle Tennessee State University.

Using the Kappa Statistic for Reliability and Validity Research. Presented at Middle Tennessee State University.

Assessing Measurement bias in Survey Construction using both Classical and Modern Approaches. Presented at Middle Tennessee State University.

Using Multivariate Statistics in Health Research: MANOVA, Discriminant Analysis, Logistic Regression, Canonical Correlation, Factor Analysis, and Structural Equation Modeling applied to the Harvard College Alcohol Study. Presented at Middle Tennessee State University.

Rasch Analysis of a Sources of Stress Instrument. Presented at Middle Tennessee State University.

Test Equating Techniques using Classical Test and Item Response Theory Approaches. Presented at Middle Tennessee State University.

Analysis of Variance (ANOVA) in Experimental Design. Presented at Middle Tennessee State University.

Introduction to Measurement & Evaluation. Presented at Middle Tennessee State University.

An Introduction to Categorical Data Analysis. Presented at Middle Tennessee State University.

Structural Equation Modeling: Dealing with Missing Data. Presented at Middle Tennessee State University.

Coefficient Alpha and the Internal Structure of Tests. Presented at Middle Tennessee State University.

GRADUATE-LEVEL METHODS COURSES TAKEN:

Statistics and Data Analysis Courses:

Meta-Analysis (MTSU)	Health Statistics (FIU)
Test Construction & Validation (MTSU)	Categorical Data Analysis (UTK)
Multivariate Data Analysis (MTSU)	Least Squares Analysis (UTK)
Adv Data Analysis in Human Performance (MTSU)	Multivariate Statistical Modeling (UTK)
Measurement Issues in Human Performance (MTSU)	Statistics for Researchers II (UTK)
Probabilistic and Statistical Reasoning (MTSU)	Biostatistics (UTK)
Nonparametric Statistics (MTSU)	Survey of Statistical Methods I & II (UTK)
Structural Equation Modeling (MTSU)	Statistics and Measurement in Education (FU)
Advanced Psychometrics (MTSU)	Regression Analysis (MTSU)
Analysis of Variance (MTSU)	SAS Programming (MTSU)

Research-Related Courses:

Experimental Design (MTSU)	Population (UTK)
Occupational and Environmental Epidemiology (FIU)	Principles of Epidemiology (UTK)
Injury Epidemiology (FIU)	Epidemiology of Injury and Violence (UTK)
Analytic Epidemiology (UTK)	Critical Analysis of Research (UTK)
Physical Activity and Health (UTK)	Advanced Research in Public Health (UTK)
Demographic Techniques (UTK)	Research in Education (FU)

Special Training Courses Taken:

Using SUDAAN to Analyze Survey Data.
School of Public Health
University of Michigan – Ann Arbor, MI

DISSERTATION/THESIS WORK:

Middle Tennessee State University: Dissertation

Title: Measurement Issues in Health-Related Quality of Life Assessments in Physical Activity Research

Manuscript:

1. Systematic review of health-related quality of life assessments in physical activity research
2. Reliability of health-related quality of life assessments using meta-analysis
3. Comparison of health-related quality of life assessments using the Rasch model

University of Tennessee - Knoxville: Dissertation (Proposal)

Title: A Multivariate Analysis of the Determinants of Physical Activity among U.S. Adults.

University of Tennessee - Knoxville: Thesis Equivalent (Summer 1998)

Title: Sociodemographic Predictors of Physical Inactivity Among Tennessee Elderly

PEER-REVIEWED JOURNAL ARTICLES:

1. **Hart, P. D.** (2025). Using statistical machine learning to find complex interactions and important CVD risk factors when predicting general health in adults. *In submission*.
2. **Hart, P. D.** (2024). Healthy eating index and physical activity in U.S. adults, 2017-2020. *Journal of Physical Activity Research*, 9(1), 30-31.
3. **Hart, P. D.** (2024). Body shape index and cardiovascular health: Life's Essential 8 and Crucial 9. *American Journal of Cardiovascular Disease Research*, 9(2), 23-31.
4. **Hart, P. D.** (2024). Sleep quality and physical activity predict patient health questionnaire (PHQ) scores in adults. *American Journal of Public Health Research*, 12(4), 54-63.
5. **Hart, P. D.** (2024). An alternative body shape index (BSI) for physically active college males. *Journal of Physical Activity Research*, 9(1), 24-29.
6. **Hart, P. D.** (2024). Scaling of maximal strength scores in physically active college females. *Journal of Physical Activity Research*, 9(1), 20-23.
7. **Hart, P. D.** (2024). Allometric scaling of maximal strength performance in physically active college-aged males: Removing the effects of body weight. *Journal of Physical Activity Research*, 9(1), 14-19.
8. **Hart, P. D.** (2024). Sleep quality predicts body shape index while adjusting for physical activity. *American Journal of Public Health Research*, 12(3), 40-47.
9. **Hart, P. D.** (2023). Leisure time physical activity as a predictor of poor health in U.S. Adults. *Journal of Physical Activity Research*, 8(2), 88-95.
10. **Hart, P. D.** (2023). Perceived happiness and general health: An IRT investigation. *Research in Psychology and Behavioral Sciences*, 11(2), 49-55. DOI: 10.12691/rpbs-11-2-3
11. **Hart, P. D.** (2023). Use of dietary supplements to build muscle and physical activity in U.S. adults. *American Journal of Public Health Research*, 11(6), 183-188.
12. **Hart, P. D.** (2023). Sociodemographic predictors of muscle strengthening activity in U.S. Adults: NHIS 2022. *World Journal of Preventive Medicine*, 12(1), 1-6.
13. **Hart, P. D., et al.** (2023). Relationships between physical activity and other health-related measures using state-based prevalence estimates. *Health Promotion Perspectives*, 13(4), 308-315.
14. **Hart, P. D.** (2023). Muscle strengthening activity and perceived general health in West Virginia adults. *American Journal of Public Health Research*, 11(6), 206-210.

15. **Hart, P. D.** (2023). State-specific prevalence of meeting muscle-strengthening activity (MSA) guidelines in U.S. adults, 2017-2019. *Journal of Physical Activity Research*, 8(2), 1-2.
16. **Hart, P. D.** (2023). Association between strength training and ADHD in U.S. children – NHIS, 2020. *Journal of Physical Activity Research*, 8(1), 14-15.
17. **Hart, P. D.** (2022). BriefTrends: Prevalence of no muscle strengthening exercise by weight status in U.S. high school students - Youth Risk Behavior Survey, 2019. *American Journal of Public Health Research*, 10(5), 174-175.
18. **Hart, P. D.** (2022). Partial relationships between health and fitness measures in adults: A network analysis. *American Journal of Public Health Research*, 10(4), 147-153.
19. **Hart, P. D.** (2022). BriefTrends: Trends in meeting muscle strengthening activity (MSA) guidelines in adults - Montana, 2011-2019. *Journal of Physical Activity Research*, 7(2), 106-107.
20. **Hart, P. D.** (2022). Initial assessment of a brief health, fitness, and spirituality survey for epidemiological research. *Journal of Lifestyle Medicine*, 12(3), 119-126.
21. **Hart, P. D.** (2022). Bivariate and multivariate associations between physical activity and body measure variables in U.S. adults, 2017-2020 Pre-pandemic. *Journal of Physical Activity Research*, 7(2), 98-105.
22. **Hart, P. D.** (2022). BriefTrends: Depression, physical activity (PA), and overweight status by sex in U.S. adults, 2017-2020. *Journal of Physical Activity Research*, 7(1), 66-67.
23. **Hart, P. D.** (2022). Population attributable risk of cardiovascular disease associated with not meeting physical activity guidelines in Montana adults. *Journal of Physical Activity Research*, 7(1), 1-6.
24. **Hart, P. D.** (2021). Relationship between an IRT-derived HRQOL score and PA among adults in Montana. *Journal of Physical Activity Research*, 6(2), 78-84.
25. **Hart, P. D.** (2021). Development of a poor diet measure and its relationship to physical activity in high school students. *Journal of Physical Activity Research*, 6(2), 85-92.
26. **Hart, P. D.** (2021). Association of joint body weight profile and physical activity with cardiovascular disease risk in Montana adults. *Journal of Physical Activity Research*, 6(2), 101-104.
27. **Hart, P. D.** (2021). Relationship between health risk behaviors and physical inactivity in Montana adults. *Journal of Physical Activity Research*, 6(2), 126-129.
28. **Hart, P. D.** (2021). Sociodemographic correlates of physical inactivity among adults in Montana. *Journal of Physical Activity Research*, 6(2), 122-125.

29. **Hart, P. D.** (2021). The influence of healthy lifestyle and health status on body mass index (BMI) in adults. *Journal of Physical Activity Research*, 6(2), 142-146.
30. **Hart, P. D.** (2021). BriefTrends: Prevalence of meeting physical activity (PA) guidelines by education in Montana adults, 2019. *Journal of Physical Activity Research*, 6(2), 105-106.
31. **Hart, P. D.** (2021). Relationship between meeting physical activity guideline parameters and body mass index (BMI) in adults. *Journal of Physical Activity Research*, 6(2), 130-134.
32. **Hart, P. D.** (2021). Associations between healthy lifestyle factors and meeting muscle strengthening activity (MSA) guidelines in Montana. In Submission.
33. **Hart, P. D.** (2021). Physical activity and body mass index (BMI) as predictors of health-related quality of life in Montana adults. *Journal of Physical Activity Research*, 6(2), 135-141.
34. **Hart, P. D.** (2020). Using multilevel linear growth models to examine participant performance on different cardiorespiratory fitness assessments. *International Journal of All Research Education and Scientific Methods*, 8(10).
35. **Hart, P. D.** (2020). Quantifying and explaining trainer variation in fitness assessments using multilevel modeling. *International Journal of Enhanced Research in Medicines & Dental Care*, 7(12).
36. **Hart, P. D.** (2020). Applying Bayes factors to examine body composition differences across physical activity and fitness groups. *International Journal of All Research Education and Scientific Methods*, 8(12).
37. **Hart, P. D.** (2020). Mediating effect of waist circumference on the relationship between physical activity and cardiorespiratory fitness in adolescents. *International Journal of Enhanced Research in Medicines & Dental Care*. 7(10).
38. **Hart, P. D.** (2020). Sex and waist circumference moderate the physical activity and cardiorespiratory fitness relationship in adolescents. *International Journal of All Research Education and Scientific Methods*. 8(12).
39. **Hart, P. D.** (2020). Symptoms of frailty and health-related quality of life: The use of physical inactivity as a frailty indicator. *International Journal of All Research Education and Scientific Methods*. 8(9).
40. **Hart, P. D.** (2020). Relationship between fitness performance and a newly developed continuous body composition score in U.S. adolescent boys. *International Journal of Adolescent Medicine and Health*. doi: 10.1515/ijamh-2020-0198.
41. **Hart, P. D.** (2020). Physical activity and a dual measure of body composition are independently related to cardiorespiratory fitness in U.S. adolescents. *International Journal of All Research Education and Scientific Methods*. 8(11).

42. **Hart, P. D.** (2020). Health insurance moderates the waist circumference and cardiorespiratory fitness relationship in adolescents. *American Journal of Medical Sciences and Medicine*. 8(5): 164-168.
43. **Hart, P. D.** (2020). An IRT-constructed brief physical functioning scale and its association with health status. *American Journal of Public Health Research*. 8(6): 184-189.
44. **Hart, P. D.** (2019). Modern psychometric analysis of the Muscle Strengthening Activity Scale (MSAS) using item response theory. *Research in Psychology and Behavioral Sciences*. 7(1): 23-33.
45. **Hart, P. D.** (2019). Objectively measured physical activity and health-related quality of life as predictors of mortality in U.S. adults. *American Journal of Public Health Research*. 7(6): 197-202.
46. **Hart, P. D.** (2019). Percent body fat prediction from body mass index and waist circumference: New cross-validated equations for young adults *American Journal of Medical Sciences and Medicine*. 7(5): 190-197.
47. **Hart, P. D.** (2019). Construct validity evidence for the Muscle Strengthening Activity Scale (MSAS). *American Journal of Public Health Research*. 7(5): 189-193.
48. **Hart, P. D.** (2019). Equivalence reliability and convergent validity of percent body fat prediction equations. *American Journal of Sports Science and Medicine*. 7(2): 45-50.
49. **Hart, P. D.** (2019). Discriminant function analysis predicts three different obesity measures using fitness scores. *East African Scholars Journal of Medical Sciences*, 2(5).
50. **Hart, P. D.** (2019). Development and item analysis of a multidimensional scale to measure muscle strengthening behavior: The Muscle Strengthening Activity Scale (MSAS). *EAS Journal of Psychology and Behavioural Sciences*. 1(2): 29-35.
51. **Hart, P. D.** (2019). Relationship between muscular fitness, health behaviors, and health-related quality of life in U.S. women. *American Journal of Sports Science and Medicine*. 8(1): 1-7.
52. **Hart, P. D.** (2019). Grip strength and health-related quality of life in U.S. adult males. *Journal of Lifestyle Medicine*, 9(2), 102-110.
53. **Hart, P. D.** & Buck, D. J. (2019). The effect of resistance training on health-related quality of life in older adults: Systematic review and meta-analysis. *Health Promotion Perspective*. 2019; 9(1): 1-12.
54. **Hart, P. D.** (2018). Multivariate multiple regression analysis of fitness and sociodemographic variables in adults. *International Journal of Physical Education, Sports and Health*, 5(5): 84-86.

55. **Hart, P. D.** (2018). Concurrent relationship of objectively measured physical activity and cardiorespiratory fitness on two different measures of obesity in U.S. adults. *Journal of Physical Activity Research*, 3(2): 78-81. doi: 10.12691/jpar-3-2-3.
56. **Hart, P. D.** (2018). A new and simple prediction equation for health-related fitness: Use of honest assessment predictive modeling. *American Journal of Applied Mathematics and Statistics*, 6(6): 224-231, doi: 10.12691/ajams-6-6-2.
57. **Hart, P. D.** (2018). Use of loglinear models to investigate the patterns of association among fitness test performances. *American Journal of Sports Science and Medicine*, 6(3): 84-88. doi: 10.12691/ajssm-6-3-4.
58. **Hart, P. D.** (2018). Multivariate analysis of the sociodemographic predictors of grip strength in U.S. Adults. *International Journal of Medical and Health Research*, 3(12): 128-131.
59. **Hart, P. D.** (2018). A multinomial logistic regression examination of TV time and two different measures of obesity in U.S. adults. *American Journal of Public Health Research*, 6(5): 222-226. doi: 10.12691/ajphr-6-5-3.
60. **Hart, P. D.** (2018). Multivariate analysis of vertical jump predicting health-related physical fitness performance. *American Journal of Sports Science and Medicine*, 6(4): 99-105. doi: 10.12691/ajssm-6-4-1.
61. **Hart, P. D.** (2018). Using structural equation modeling to examine the effects of sex and physical activity on the metabolic syndrome and health-related quality of life relationship. *Exercise Medicine*, 2:3.
62. **Hart, P. D.** (2018). Metabolic syndrome, health-related quality of life, and social risk: A structural equation modeling analysis. *Journal of Physical Fitness, Medicine & Treatment in Sports*, 1(4): 555568.
63. **Hart, P. D.**, Benavidez, G. A., & Erickson, J. (2017). Meeting recommended levels of physical activity in relation to preventive health behavior and health status among adults. *Journal of Preventive Medicine and Public Health*, 2017; 50(1):10-17.
64. **Hart, P. D.** (2017). Latent class analysis of physical activity and mortality in U.S. adults. *Juniper Online Journal of Public Health*, 3(1): 555602.
65. **Hart, P. D.** (2017). Predictors of hospital admission in exercise-related injuries: Use of decision tree analysis. *International Journal of Medical and Health Research*, 3(12): 128-131.
66. **Hart, P. D.** (2017). A propensity score matched case-control study of historical physical activity and mortality in U.S. adults. *Juniper Online Journal of Public Health*, 2(5): 555600.

67. **Hart, P. D.** (2017). Self-reported physical inactivity and waist circumference independently predict all-cause mortality in U.S. adults. *American Journal of Public Health Research*, 5(6): 184-189.
68. **Hart, P. D.** (2017). Physical inactivity and health-related quality of life as predictors of survival in U.S. adults: A novel use of item-response theory. *SM Preventive Medicine and Public Health*, 1(2): 1010.
69. **Hart, P. D.** (2017). Contribution of physical activity to the Life's Simple 7 metric in older rural adults. *American Journal of Cardiovascular Disease Research*. 5(1): 1-4.
70. Benavidez, G. A., & **Hart, P. D.** (2017). Effects of yoga on measures of health-related quality of life from SF-36 and SF-12 assessments: A systematic review and meta-analysis. *Exercise Medicine*, 1:5.
71. **Hart, P. D.** (2017). Epidemiology of exercise-related injuries presenting to U.S. emergency departments: 10-year trends. *Journal of Physical Fitness, Medicine & Treatment in Sports*. 1(3): 555562.
72. **Hart, P. D.** (2017). Physical activity mode and survival in U.S. adults. *American Journal of Applied Mathematics and Statistics*, 5(4): 154-158.
73. **Hart, P. D.** (2017). Physical activity and health-related quality of life in rural adults with chronic disease. *American Journal of Medical Sciences and Medicine*, 5(3): 62-66.
74. **Hart, P. D.** (2017). A canonical correlation analysis of physical activity parameters and body composition measures in college students. *American Journal of Sports Science and Medicine*, 5(4): 64-68.
75. **Hart, P. D.** (2017). Fitness performance across ranked body composition groups assessed by different methods. *International Journal of Physical Education, Sports and Health*, 4(6): 82-86.
76. **Hart, P. D.** (2017). Profiling physical fitness attributes in college students: A cluster analysis. *International Journal of Physiology, Nutrition and Physical Education*, 2(2): 741-744.
77. **Hart, P. D.**, Benavidez, G., Potter, A., Rech, K., Budak, M., Auzenne, C., Failing, J., Kirkaldie, T., Lonebear, M., & Miller, L. (2017). A pilot randomized controlled trial to promote physical activity and change fitness scores in rural college students: The Northern eHealth/mHealth trial (N-EMT). *World Journal of Preventive Medicine*, 5(1):43-48.
78. **Hart, P. D.**, Benavidez, G., Detomasi, N., Potter, A., Rech, K., Budak, C., Faupel, N., Thompson, J., Schwenke, L., Jericoff, G., Manuel, M., Lee, T., Edmonson, W., Auzenne, C., Kirkaldie, T., Lonebear, M., & Miller, L. (2017). A multitrait-multimethod (MTMM) study of fitness assessments in college students. *SM Journal of Sports Medicine and Therapy*, 1(1): 1002.

79. **Hart, P. D.** (2017). Using generalizability theory (G-Theory) to examine the reliability of body composition measurement. *SM Journal of Biometrics & Biostatistics*. 2(4): 1019.
80. **Hart, P. D.** (2017). Test-retest stability of four common body composition assessments in college students. *Journal of Physical Fitness, Medicine & Treatment in Sports*. 1(2): 555561
81. **Hart, P. D.** (2017). Psychometric evidence of body composition as a multidimensional trait in college students. *International Journal of Physical Education Fitness and Sports*. 6(4): 1-5.
82. **Hart, P. D.** (2016). Sex differences in the physical inactivity and health-related quality of life relationship among rural adults. *Health Promotion Perspective*. 2016; 6(4): 174-179.
83. **Hart, P. D.** (2016). Meeting recommended levels of physical activity and health-related quality of life in rural adults. *Journal of Lifestyle Medicine*, 6(1): 1-6.
84. Benavidez, G. A., Detomasi, N., & **Hart, P. D.** (2016). Short-term effects of creatine supplementation on physical fitness measures in moderately active college-aged females: A randomized placebo-controlled pilot study. *Journal of Physical Activity Research*, 1(1), 15-19.
85. **Hart, P. D.** (2015). Receiver operating characteristic (ROC) curve analysis: A tutorial using body mass index (BMI) as a measure of obesity. *Journal of Physical Activity Research*, 1:1, doi: 10.12691/jpar-1-1-2
86. **Hart, P. D.** (2015). Body mass index (BMI) and sedentary time in adults. *Obesity and Control Open Access*. 2:106
87. **Hart, P. D.** (2015). Assessment of health-related quality of life in rural population health research: Using classical and modern psychometric approaches. *World Journal of Preventive Medicine*, 3:2, doi: 10.12691/jpm-3-2-5
88. **Hart, P.D.**, Kang, M., Weatherby, N.L., Lee, Y., & Brinthaup, T.M. (2015). Evaluation of the short-form health survey (sf-36) using the Rasch model. *American Journal of Public Health Research*. Vol 3(4): 136-147. doi: 10.12691/ajphr-3-4-3
89. **Hart, P. D.**, & Kang, M. (2015). Reliability of the short-form health survey (sf-36) in physical activity research using meta-analysis. *World Journal of Preventive Medicine*, 3:2, doi: 10.12691/jpm-3-2-1.
90. **Hart, P. D.** (2015). Muscle strengthening activity in addition to physical activity and health-related quality of life in adults. *World Journal of Preventive Medicine*, 3:2, doi: 10.12691/jpm-3-2-2.

91. **Hart, P.D.**, Kang, M., Weatherby, N.L., Lee, Y., & Brinthaup, T.M. (2015). Systematic review of health-related quality of life assessments in physical activity research. *World Journal of Preventive Medicine*, 3:2, doi: 10.12691/jpm-3-2-3
92. **Hart, P. D.**, & Kang, M. (2014). Physical inactivity and health-related quality of life among U.S. adult men and women. *Journal of Women's Health Care*.3:6, doi:10.4172/2167-0420.1000201.
93. Kim, Y., Conners, R. T., **Hart, P. D.**, Kang, Y., & Kang, M. (2013). Association of physical activity and body mass index with metabolic syndrome among US adolescents with disabilities. *Disability and Health Journal*, 6(3), 253–259.
94. Kang, M., **Hart, P. D.**, & Kim, Y. (2012). Establishing a threshold for the number of missing days using 7 d pedometer data. *Physiological Measurement*. 33(11), 1877-85.
95. Owusu, A., **Hart, P.**, & Oliver, B. (2011). Association between bullying and psychological health among senior high school students in Ghana. *Journal of School Health*. 81(5), 231-8.
96. **Hart, P. D.**, Barreira, T. V., & Kang, M. (2010). Correlates and predictors of physical inactivity among Tennessee adults. *Tennessee Medicine*. 103(9), 41-44.

ABSTRACTS / POSTERS / PRESENTATIONS:

1. **Hart, P. D.** (2023). Muscle strengthening activity and perceived general health in West Virginia adults. Accepted for ACSM presentation.
2. **Hart, P. D.** (2023). Assessing perceived happiness in epidemiological research: An item response theory (IRT) investigation. Accepted for SER presentation.
3. **Hart, P. D.** (2022). Partial relationships between health and fitness measures in adults: A network analysis. 2022 NSCA National Conference in New Orleans, LA.
4. **Hart, P. D.** (2020). An IRT-constructed brief physical functioning scale and its association with health status. Society for Epidemiologic Research 53rd Annual Meeting, Boston, MA.
5. **Hart, P. D.** (2019). A new and simple prediction equation for health-related fitness: Use of honest assessment predictive modeling. ACSM 2019 Annual Meeting, Orlando, FL. Saturday June 1, 2019 7:30 AM - 11:00 AM.
6. **Hart, P. D.** (2019). Objectively measured physical activity and health-related quality of life as predictors of mortality in U.S. adults. Society for Epidemiologic Research 52nd Annual Meeting, Minneapolis, MN. Wednesday, June 19, 2019 6:30 PM - 7:30 PM.

7. **Hart, P. D.** & Buck, D. J. (2018). The effect of resistance training on health-related quality of life in older adults: Systematic review and meta-analysis. Society for Epidemiologic Research – Fall 2018 SERdigital Meeting.
8. **Hart, P. D.** (2018). Concurrent relationship of objectively measured physical activity and cardiorespiratory fitness on two different measures of obesity in U.S. adults. Society for Epidemiologic Research 51th Annual Meeting, Baltimore, MD.
9. **Hart, P. D.** & Benavidez, G. A. (2017). Latent class analysis of physical activity and mortality in U.S. adults. Submitted to American Public Health Association (APHA) 2017 Annual Meeting & Expo., Atlanta, GA.
10. **Hart, P. D.** (2017). Using structural equation modeling to determine the effects of sex and physical activity on the metabolic syndrome and health-related quality of life relationship. Accepted to American Public Health Association (APHA) 2017 Annual Meeting & Expo., Atlanta, GA.
11. **Hart, P. D.** (2017). Predictors of hospital admission in exercise-related injuries: Use of decision tree analysis. Submitted to American Public Health Association (APHA) 2017 Annual Meeting & Expo., Atlanta, GA.
12. **Hart, P. D.** (2017). Social risk mediates the metabolic syndrome and health-related quality of life relationship: Applying structural equation modeling analysis to epidemiological research. Submitted to American Public Health Association (APHA) 2017 Annual Meeting & Expo., Atlanta, GA.
13. **Hart, P. D.**, & Benavidez, G. A. (2017). A propensity score matched case-control study of historical physical activity and mortality in U.S. adults. Society for Epidemiologic Research 50th Annual Meeting, Seattle, WA.
14. **Hart, P. D.**, & Benavidez, G. A. (2017). Epidemiology of exercise-related injuries presenting to U.S. emergency departments: 10-year trends. Society for Epidemiologic Research 50th Annual Meeting, Seattle, WA.
15. **Hart, P. D.**, & Benavidez, G. A. (2017). Physical activity, Life's Simple 7, and health-related quality of life in older rural U.S. adults. 64th ACSM Annual Meeting, Denver, CO.
16. **Hart, P. D.**, & Benavidez, G. A. (2017). Physical activity and health-related quality of life in rural U.S. adults with chronic disease. 64th ACSM Annual Meeting, Denver, CO.
17. Benavidez, G. A., & **Hart, P. D.** (2017). Fitness performance across ranked body composition groups assessed by different methods. 64th ACSM Annual Meeting, Denver, CO.
18. Benavidez, G. A., & **Hart, P. D.** (2017). Physical activity mode and survival in U.S. adults. 64th ACSM Annual Meeting, Denver, CO.

19. **Hart, P. D.**, Jensen, P. D., Bingman, M. D., Allard, C. L., Russell, H. N., Griffin, C. V., & Jordan, J. B. (2016). Test-retest stability of four common body composition assessments in college students. 2016 NSCA National Conference, New Orleans, LA.
20. **Hart, P. D.**, Jensen, P. D., Bingman, M. D., Allard, C. L., Russell, H. N., & Griffin, C. V. (2016). Psychometric evidence of body composition as a multidimensional trait in college students. 2016 NSCA National Conference, New Orleans, LA.
21. **Hart, P. D.** (2016). Self-Reported Physical Inactivity and Waist Circumference Independently Predict All-Cause Mortality in U.S. Adults. 2016 Epidemiology Congress of the Americas Meeting, Miami, FL.
22. **Hart, P. D.** (2016). Physical inactivity and health-related quality of life as predictors of survival in U.S. adults: A novel use of item-response theory. 2016 Epidemiology Congress of the Americas Meeting, Miami, FL.
23. **Hart, P. D.**, & Jensen, P.D. (2016). Reliability of Body Composition Assessment Using Generalizability Theory (G-Theory). 63rd ACSM Annual Meeting, Boston, Mass.
24. **Hart, P. D.** (2015). Meeting recommended levels of physical activity and health-related quality of life in rural adults. 62nd ACSM Annual Meeting, San Diego, California.
25. **Hart, P. D.** (2015). Sex differences in the physical inactivity and health-related quality of life relationship among rural adults. 6th World Congress on Exercise is Medicine Meeting, San Diego, California.
26. **Hart, P. D.** (2014). Assessment of health-related quality of life in rural population health research: Using classical and modern psychometric approaches. International Rural Health and Rural Nursing Research Conference in Bozeman, MT.
27. **Hart, P. D.** (2014). Muscle strengthening activity in addition to physical activity and health-related quality of life in adults. Art and Science of Health Promotion Conference, Colorado Springs, CO.
28. Haley, J., **Hart, P. D.**, Kim, Y., Carter, M. D., & Kang, M. (2011). Reliability of the Rockport 1-mile walk test in 5-8 year old children using G-theory and Bland-Altman limits of agreement. TAHPERD Convention, Murfreesboro, TN.
29. Carter, M. D., Carter, M. S., Haley, J., **Hart, P. D.**, Kim, Y., & Kang, M. (2011). Establishing validity of a unidimensional weight stigma scale using Rasch model. AAHPERD National Convention, Boston, MA.
30. **Hart, P. D.**, Kim, Y., & Kang, M. (2011). Sedentary time and body size among U.S. adults. 58th ACSM Annual Meeting, Denver, CO.

31. **Hart, P. D.**, Kim, Y.S., Kim, Y., & Kang, M. (2011). Recommended levels of physical activity and metabolic syndrome: comparison of U.S. and Korean adults. 58th ACSM Annual Meeting, Denver, CO.
32. Kang, M., **Hart, P. D.**, & Kim, Y. (2011). Establishing a threshold for the number of missing days using 7-day pedometer data. 2nd International Conference on Ambulatory Monitoring of Physical Activity and Movement, ICAMPAM 2011, Glasgow, UK.
33. Kim, Y., **Hart, P. D.**, & Kang, M. (2011). Prevalence of physical inactivity and metabolic syndrome in U.S adolescents with disabilities. 58th ACSM Annual Meeting, Denver, CO.
34. Kim, Y., **Hart, P. D.**, & Kang, M. (2011). Rater variability of TGMD-2 in children with intellectual disabilities. 58th ACSM Annual Meeting, Denver, CO.
35. Lee, Y. S., **Hart, P. D.**, Kim, Y., & Kang, M. (2011). Physical Education, physical activity, and obesity. 58th ACSM Annual Meeting, Denver, CO.
36. Mathis, L. S. & **Hart, P. D.** (2011). Muscle strengthening exercise among U.S. Adults. 58th ACSM Annual Meeting, Denver, CO.
37. Holbrook, E., **Hart, P. D.**, Rimmer, J., Kang, M., & Morgan, D. (2011). Association between physical activity and metabolic health in adults with visual impairment. 58th ACSM Annual Meeting, Denver, CO.
38. **Hart, P. D.**, Barreira, T. V., & Kang, M. (2011). Physical inactivity time and risk of CVD among U.S. children. AAHPERD National Convention, San Diego, CA.
39. Kang, M., **Hart, P. D.**, & Barreira, T. V. (2011). Physical inactivity time and risk of metabolic syndrome. AAHPERD National Convention, San Diego, CA.
40. **Hart, P. D.**, Kim, Y., & Kang, M. (2011). Physical inactivity and risk of cardiovascular disease risk factors among U.S. adults. Southeast Chapter of the American College of Sports Medicine (SEACSM), Greenville, SC.
41. Kim, Y., **Hart, P. D.**, Kang, M., & Park, I. (2011). Reliability estimation of TGMD-2 using G-Theory. Southeast Chapter of the American College of Sports Medicine (SEACSM), Greenville, SC.
42. **Hart, P. D.**, Kim, Y., & Kang, M. (2010). Physical inactivity trends among Tennessee adults, 2000-2009. Tennessee Association for Health, Physical Education, Recreation, & Dance (TAHPERD), Murfreesboro, TN.
43. Kim, Y., **Hart, P. D.**, & Kang, M. (2010). Relationship between physical inactivity behaviors and obesity among adolescents in Tennessee. Tennessee Association for Health, Physical Education, Recreation, & Dance (TAHPERD), Murfreesboro, TN.

44. Wright, R., **Hart, P. D.**, Owusu, A., Oliver, B. D., Cole, A. R., Mahoney-Dickson, P., & Sowah, S. (2010). Alcohol and tobacco use: The effects of parental behavior and that of senior high school students in Ghana, West Africa. Tennessee Association for Health, Physical Education, Recreation, & Dance (TAHPERD), Murfreesboro, TN.
45. Sowah, S., Owusu, A., Oliver, B. D., Wright, R., Cole, A. R., Mahoney-Dickson, P., & **Hart, P. D.** (2010). Exploring the association between bed net type usage and the likelihood of getting malaria among senior high school students in Ghana, West Africa. Tennessee Association for Health, Physical Education, Recreation, & Dance (TAHPERD), Murfreesboro, TN.
46. Cole, A., Owusu, A., Mahoney-Dickson, P., Oliver, B. D., Sowah, S., Wright, R., & **Hart, P. D.** (2010). What are Tennessee high school students doing or not doing to lose weight? - Relationships Between Weight-Reduction Status and Weight Management Behaviors of Adolescents in Tennessee. Tennessee Association for Health, Physical Education, Recreation, & Dance (TAHPERD), Murfreesboro, TN.
47. Lee, Y. S., **Hart, P. D.**, Kim, Y., & Kang, M. (2010). Trends in participation in physical education among high school students in Tennessee, 2003-2009. Tennessee Association for Health, Physical Education, Recreation, & Dance (TAHPERD), Murfreesboro, TN.
48. **Hart, P. D.**, & Kang, M., (2010). Sociodemographic characteristics of leisure-time physical inactivity among US adults. AAHPERD National Convention, Indianapolis, IN.
49. **Hart, P. D.**, Barreira, T. V., & Kang, M. (2009). Correlates and predictors of physical inactivity among Tennessee adults. TAHPERD Convention, Murfreesboro, TN.
50. **Hart, P. D.**, Barreira, T. V., & Kang, M. (2010). Accelerometer-determined physical activity and cardiovascular disease risk factors among U.S. adults. 57th ACSM Annual Meeting, Baltimore, Maryland.
51. **Hart, P. D.**, Barreira, T. V., & Kang, M. (2010). Muscle strengthening activities and health-related quality of life among U.S. adults. World Congress on Exercise is Medicine, Baltimore, Maryland.
52. **Hart, P. D.**, Owusu, A., Barreira, T. V., & Kang, M. (2010). Recommended levels of physical activity, tobacco, alcohol, and drug use among adolescents in Ghana. 3rd International Congress on Physical Activity and Public Health, Toronto, Canada.
53. Barreira, T. V., **Hart, P. D.**, Holbrook, E. A., & Kang, M. (2010). The effect of supervised aerobic exercise on BMI, VO₂max, and resting blood pressure: A meta-analysis. 3rd International Congress on Physical Activity and Public Health, Toronto, Canada.
54. Kang, M., Barreira, T. V., & **Hart, P. D.** (2010). Exploratory analysis of the 3DPAR category functions. 3rd International Congress on Physical Activity and Public Health, Toronto, Canada.

55. Kang, M., Barreira, T. V., & **Hart, P. D.** (2010). Evaluation report of measurement and statistical consulting service from the HHP department. MTSU Scholar's Week, Murfreesboro, TN.
56. Oliver, B., **Hart, P. D.**, Owusu, A., & White, K. (2010). H1N1/Flu extra precautions: Does perceived severity of personal infection matter? MTSU Scholar's Week, Murfreesboro, TN.
57. Owusu, A., **Hart, P. D.**, & Oliver, B. (2010). Association between bullying and psychological health among senior high school students in Ghana. MTSU Scholar's Week, Murfreesboro, TN.
58. Castillo, A., **Hart, P. D.**, Oliver, B., Lee, B., White, K., & Owusu, A. (2010). H1N1: Knowledge-attitudes-behaviors-barriers among MTSU students. MTSU Scholar's Week, Murfreesboro, TN.
59. Lee, B., Oliver, B., **Hart, P. D.**, & Owusu, A. (2010). H1N1 Flu: Effect of perceived severity/susceptibility on hand-washing habits. MTSU Scholar's Week, Murfreesboro, TN.
60. White, K., **Hart, P. D.**, Castillo, A., Lee, B., & Owusu, A. (2010). H1N1: Knowledge-Attitudes-Behaviors-Barriers among MTSU students. MTSU Scholar's Week, Murfreesboro, TN.