

STEPHEN JORDAN CARTER, Ph.D., ACSM-CPT

Postdoctoral Fellow
Department of Nutrition Sciences
Cancer Prevention and Control Training Program
University of Alabama at Birmingham
1675 University Blvd Webb Building #248
Birmingham, AL 35233-2432

Office: 205.975.0269
Mobile: 503.781.1918
Fax: 205.934.7049
Email: carters@uab.edu
[PubMed Listing](#)

EDUCATION

Doctor of Philosophy, Exercise Science, The University of Alabama, May 2014

Concentration: Cardiovascular Physiology

Dissertation: Oral Ingestion of Acetylsalicylic Acid on Skin Blood Flow and Local Sweat Rate during Heat Stress

Chair: Phillip A. Bishop, EdD

Master of Science, Exercise Science, Central Washington University, June 2010

Concentration: Exercise Physiology

Advisor: Vincent M. Nethery, PhD

Bachelor of Arts, Exercise Science, Willamette University, May 2006

Senior Thesis: Incidence of Hamstring Strain and the Role of Postural Deviations

Advisor: Peter A. Harmer, PhD

RESEARCH INTERESTS

- Cardiovascular and autonomic function from breast cancer diagnosis through survivorship
- Therapeutic potential of hypoxia- and/or heat-therapy as an adjunct of exercise to optimize physiologic adaptation (e.g., cardioprotection, cholinergic anti-inflammatory pathway) in clinical populations
- Health disparities among African American and European American women

PROFESSIONAL EXPERIENCE

2015 – present: Postdoctoral Fellow, Department of Nutrition Sciences, Cancer Prevention and Control Training Program, University of Alabama at Birmingham (UAB), Mentor(s): [Laura Q. Rogers, MD, MPH](#) and [Lyse A. Norian, PhD](#)

2014 – 2015: Postdoctoral Fellow, Department of Human Studies, Nutrition Obesity Research Center, University of Alabama at Birmingham (UAB), Mentor(s): [Gary R. Hunter, PhD](#)

2011 – 2014: Graduate Teaching Assistant, Department of Kinesiology, College of Education, The University of Alabama

2010 – 2011: ACSM Certified Personal Trainer, University Recreation Center, The University of Alabama

2007 – 2009: Graduate Teaching Assistant, Department of Nutrition, Exercise and Health Sciences, College of Education and Professional Studies, Central Washington University

TEACHING EXPERIENCE

University of Alabama at Birmingham, College of Education, Department of Human Studies

- KIN 638: Physiology of Exercise II (*co-taught*)
- KIN 637: Physiology of Exercise I (*co-taught*)

The University of Alabama, College of Education, Department of Kinesiology

- KIN 492: Physiology of Exercise Laboratory Component
- KIN 352: Psychology of Coaching
- KIN 199: Ecological Approach to Health and Wellness
- KIN 167: Running
- KIN 157: Beginning Weight Training
- KIN 103: Soccer
- KIN 101: Physical Conditioning

Central Washington University, College of Education and Professional Studies, Department of Nutrition, Exercise and Health Studies

- EXSC 351L: Human Physiology Laboratory Component (*co-taught*)
- EXSC 350L: Gross Anatomy Laboratory Component (*co-taught*)
- PEF 128: Gluteal and Abdominal Training
- PEF 115: Jogging
- PEF 112: Ski Conditioning
- PEAQ 114: Swim Conditioning
- PEAQ 113: Advanced Swimming

HONORS & AWARDS

- | | |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2016 | Most Esteemed Postdoc Award , competitive honor among ≈250 postdoctoral scholars, awarded for publication/presentation productivity, University of Alabama at Birmingham |
| 2015 | New Investigator Award , Environmental and Exercise Physiology Section, American Physiological Society, presented at Experimental Biology Conference, Boston, MA |
| 2014 | Poster Award, Center for Exercise Medicine Second Annual Symposium, University of Alabama at Birmingham, " <i>Racial Differences in Erythropoietin and Hemoglobin Before and After Weight Loss in Women</i> " |
| 2014 | Creativity is a Decision Award, Nutrition Obesity Research Center, University of Alabama at Birmingham, " <i>Out of Thin Air: An Obesity Intervention through Hypoxic Inducible Factor Activation</i> " |
| 2014 | Outstanding Doctoral Research Award, College of Education, The University of Alabama |
| 2013 | Finalist (top 15) Inaugural 3MT Competition, The University of Alabama, " <i>Influence of Aspirin on Temperature Regulation in Humans</i> " |
| 2011 – 2014 | Travel Award(s), The Graduate School and Department of Kinesiology, The University of Alabama |

GRANT SUPPORT/PROPOSAL

- 2015 – present Center for Palliative Research and Supportive Care, Palliative Research Enhancement Project (PREP), University of Alabama at Birmingham, Titled: Simulated-altitude to Optimize Aerobic Exercise among Obese Breast Cancer Survivors with Limited Mobility, \$25000, Role: PI. STATUS: *Funded*.
ClinicalTrials.gov Identifier: [NCT03029182](https://clinicaltrials.gov/ct2/show/study/NCT03029182)
- 2015 – present National Cancer Institute, Postdoctoral Fellowship, Cancer Prevention and Control Training Program (R25CA047888; PI(s): Wendy Demark-Wahnefried & Karen M. Menses), Role: Trainee.
- 2014 – 2015 National Institute of Diabetes and Digestive and Kidney Disease, Postdoctoral Fellowship, Obesity Training Program (T32DK062710; PI: David B. Allison), Role: Trainee.
- 2013 American College of Sports Medicine, Predoctoral Student Research Grant, Titled: Altered Skin Blood Flow and Heat Tolerance in Type 2 Diabetics, \$5000, STATUS: Not Funded.
- 2012 – 2013 Research Supplement(s), Department of Kinesiology and The Graduate School, The University of Alabama, \$740

PEER-REVIEWED PUBLICATIONS

1. Hunter, G. R., Neumeier, W. H. Chandler-Laney, P.C., **Carter, S. J.**, Hornbuckle, L.M., Plaisance, E. P., and Fisher, G. RPE during walking predicts endurance independent of physiological effort. *European Journal of Applied Physiology*. (*in review*)
2. Neumeier, W. H., **Carter, S. J.**, Chandler-Laney, P. C., Fisher, G., and Hunter, G. R. Fatigue is independently predictive of rating of perceived exertion during lower-intensity but not higher-intensity exercise in older adults. *International Journal of Exercise Science*. (*in review*)
3. **Carter, S. J.**, Bryan, D. R., Neumeier, W. H., Glasser, S. P., and Hunter, G. R. Serum tumor necrosis factor-alpha associates with myocardial oxygen demand and exercise tolerance in postmenopausal women. *International Journal of Exercise Science*. (*in review*)
4. Hunter, G. R., Moellering, D. R., **Carter, S. J.**, Gower, B.A., Bamman, M. M., Hornbuckle, L. M., Plaisance, E. P., and Fisher, G. Potential causes of elevated resting energy expenditure following high-intensity interval exercise. *Medicine & Science in Sports & Exercise*. (*in review*)
5. Neumeier, W. H., Goodner, E., **Carter, S. J.**, Biasini, F., Dhurandhar, E. J., Menear, K.S., Turan, B., Pybus, G., and Hunter, G. R. Physiological determinants predictive of changes in energy intake following mental work. *Appetite*. (*accepted with minor revisions*)
6. **Carter, S. J.**, Plaisance, E. P., Fisher, G., Fernandez, J. R., Gower, B. A., and Hunter, G. R. Alterations in hemoglobin and serum 25-hydroxyvitamin D are related before and after weight loss independent of African admixture. *International Journal of Sport Nutrition and Exercise Metabolism*. 2017. 27(1): 59-66.
7. Paulsen, J. A., Ptacek, T.S., **Carter, S. J.**, Morrow, C. D., Liu, N., Kumar, R., Hyndman, L., Lefkowitz, E. J., and Rogers, L. Q. Gut microbiota composition associated with alterations in cardiorespiratory fitness and psychosocial outcomes among breast cancer survivors. *Supportive Care in Cancer*. 2017. 25(5): 1563-1570.
8. Hunter, G. R., Plaisance, E. P. **Carter, S. J.**, and Fisher, G. Why Intensity is not a Bad Word: Optimizing Health Status at any Age. *Clinical Nutrition*. 2017. February 9. [Epub ahead of print].

9. **Carter, S. J.**, Herron, R. L., Rogers, L. Q., and Hunter, G. R. Is “high-intensity” a bad word? Correspondence for Journal of Physiotherapy. 2016. 62(3): 175.
10. Rogers, L. Q., Courneya, K. S., **Carter, S. J.**, Anton, P. M., Verhulst, S., Vicari, S. K., Robbs, R. S., and McAuley, E. Effects of a multicomponent physical activity behavior change intervention on breast cancer survivor health status outcomes in a randomized controlled trial. Breast Cancer Research and Treatment. 2016. 159(2): 283-291.
11. **Carter, S. J.**, Hunter, G. R., McAuley, E., Courneya, K. S., Anton, P. M., and Rogers, L. Q. Lower rate-pressure product during submaximal walking: a link to fatigue improvement following a physical activity intervention among breast cancer survivors. Journal of Cancer Survivorship. 2016. 10(5): 927-934.
12. **Carter, S. J.**, Goldsby, T. U., Fisher, G., Plaisance, E. P., Gower, B. A., Glasser, S. P., and Hunter, G. R. Systolic blood pressure response after high-intensity interval exercise is independently related to decreased small arterial elasticity in normotensive African American women. Applied Physiology, Nutrition, and Metabolism. 2016. 41(5): 484-490.
13. Hunter, G. R., Fisher, G., Neumeier, W. H., **Carter, S. J.**, and Plaisance, E. P. Exercise training and energy expenditure following weight loss. Medicine & Science in Sports & Exercise. 2015. 47(9): 1950-1957.
14. **Carter, S. J.** Into “thinner” air: A novel strategy to improve clinical outcomes and support weight loss? Journal of Obesity and Weight Loss Therapy. 2015. 5(5): e118.
15. **Carter, S. J.**, Herron, R. L., Akers, S. Z., and Bishop, P. A. Acetylsalicylic acid does not alter thermo-effector responses during mild, whole-body passive heat stress in young men. International Journal of Hyperthermia. 2015. 31(4): 319-324.
16. Hunter, G. R., McCarthy, J. P., **Carter, S. J.**, Bamman, M. M., Gaddy, E. S., Fisher, G., Katsoulis, K., Plaisance, E. P., and Newcomer, B. R. Muscle fiber type, Achilles tendon length, potentiation, and running economy. Journal of Strength and Conditioning Research. 2015. 29(5): 1302-1309.
17. Zhang, Y., **Carter, S. J.**, Schumaker, R. E., Negggers, Y. H., Curtner-Smith, M. D., Richardson, M. T., Green, J. M., and Bishop, P. A. Effect of caffeine on fluid balance during exercise-heat stress and recovery. South African Journal of Sports Medicine. 2014. 26(2): 43-47.
18. Esco, M. R., Herron, R. L., **Carter, S. J.**, and Flatt, A. A. Association of body composition and aerobic fitness on heart rate variability and recovery in Black men. International Journal of Clinical Medicine. 2013. 4: 532-538.
19. Del Pozzi, A. T., **Carter, S. J.**, Collins, A. B., and Hodges, G. J. Regional differences in the contribution of nitric oxide synthase to skin blood flow at forearm and lower leg sites. Microvascular Research. 2013. 90: 106-111.
20. **Carter, S. J.**, and Hodges, G. J. Sensory and sympathetic nerve contributions during cutaneous vasodilator responses from a noxious stimulus. Experimental Physiology. 2011. 96(11): 1208-1217.

MANUSCRIPTS IN PREPARATION

1. **Carter, S. J.**, Hunter, G. R., Norian, L.A., Turan, B., Courneya, K. S., and Rogers, L. Q. Ease of walking associates with greater physical activity, less sedentary time, and reduced depression in breast cancer survivors. Supportive Care in Cancer.

- Nicholson, W. C., Kempf, M.C., Moneyham, L., Vance, D. E., and **Carter, S. J.** Systematic review of the vagus nerve and associations with inflammation and cognition: Theoretical and potential treatment implications for HIV-associated neurocognitive disorders. *Neuroscience and Biobehavioral Reviews*.

PROFESSIONAL ABSTRACTS

- Carter, S. J.**, Bryan, D. R., Neumeier, W. H., Glasser, S. P., and Hunter, G. R. Tumor necrosis factor-alpha adversely influences myocardial oxygen demand and exercise tolerance in postmenopausal women. American College of Sports Medicine Annual Meeting, Denver, CO. June 2017. (*accepted*)
- Hornbuckle, L. M., Gower, B. A., **Carter, S. J.**, and Hunter, G. H. Long-term effects on cardiovascular disease risk factors after weight loss in overweight women. American College of Sports Medicine Annual Meeting, Denver, CO. June 2017. (*accepted*)
- Paulsen, J. A., Ptacek, T.S., **Carter, S. J.**, Morrow, C. D., Liu, N., Kumar, R., Hyndman, L., Lefkowitz, E. J., and Rogers, L. Q. Gut microbial composition associated with cardiorespiratory fitness, psychological factor changes among breast cancer survivors. Annual Society of Behavioral Medicine, San Diego, CA. April 2017.
- Carter, S. J.**, Hunter, G. R., McAuley, E., Courneya, K. S., Anton, P. M., and Rogers, L. Q. Lower rate-pressure product during submaximal walking: a link to fatigue improvement following a physical activity intervention among breast cancer survivors. American College of Sports Medicine Annual Meeting, Boston, MA. June 2016; 48:5.
- Leatherwood, M. D., Herron, R. L., and **Carter, S. J.** Resting measures of cardiovascular autonomic control are not influenced by energy drink ingestion or postural changes in health adults. Experimental Biology Meeting, San Diego, CA. FASEB J., April 2016; 30: 1b612.
- Carter, S. J.**, Goldsby, T. U., Fisher, G., Plaisance, E. P., Gower, B. A., Glasser, S. P., and Hunter, G. R. Exaggerated blood pressure response after high-intensity interval exercise is independently related to decreased small arterial elasticity in normotensive African American women. Experimental Biology Meeting, San Diego, CA. FASEB J., April 2016.
- Herron, R.L., **Carter, S.J.**, Collins, A.B., and Leatherwood, M.D. Reliability of skin blood flow measures by laser-Doppler flowmetry. Experimental Biology Meeting, Boston, MA. FASEB J., March 2015; 29: 1b675.
- Carter, S. J.**, Fisher, G., Plaisance, E. P., Gower, B. A., and Hunter, G. R. Improved insulin sensitivity following an acute bout of high-intensity interval exercise is race specific. American College of Sports Medicine Annual Meeting, San Diego, CA. June 2015; 47:5.
- Herron, R. L., **Carter, S. J.**, Akers, S. Z., and Bishop, P. A. Aspirin ingestion does not influence local sweat responses during continuous exercise or passive recovery in the heat. American College of Sports Medicine Annual Meeting, San Diego, CA. June 2015; 47:5.
- Hunter, G. R., Fisher, G., **Carter, S. J.**, Bamman, M. M., Moellering, D. R., and Gower, B. A. Sleeping/resting energy expenditure is significantly increased following an acute bout of high-intensity interval exercise. American College of Sports Medicine Annual Meeting, San Diego, CA. June 2015.
- Carter, S. J.**, Fisher, G., Plaisance, E. P., Fernandez, J. R., and Hunter, G. R. Race differences in erythropoietin, 25-hydroxyvitamin D, and hemoglobin before and after weight loss in women. Experimental Biology Meeting, Boston, MA. FASEB J., March 2015.
- Herron, R. L., Collins, A. B., **Carter, S. J.**, Mitchell, J. B., and Bishop, P. A. Forearm skin blood flow responses to Kinesiology tape: a pilot study. National Strength and Conditioning Annual Meeting, Las Vegas, NV. July 2013.

13. Mitchell, J. B., Herron, R. L., **Carter, S. J.**, Collins, A. B., Martinez, A. X., Baggett, S. A., and Bishop, P. A. Lifting performance and indices of recovery 24 hours after exhaustive resistance training bouts in adolescent males. National Strength and Conditioning Annual Meeting, Las Vegas, NV. July 2014.
14. Mitchell, J. B., Herron, R. L., **Carter, S. J.**, Hornsby, J. H., and Bishop, P. A. Upper- and lower-body strength training recovery in male adolescent athletes. American College of Sports Medicine Annual Meeting, Orlando, FL. May 2014; 46:5.
15. Ng, J., Casey, J. C., Herron, R. L., **Carter, S. J.**, Katica, C. P., and Wingo, J. E. Acute cooling does not attenuate the VO₂max reduction associated with cardiovascular drift during heat stress. American College of Sports Medicine Annual Meeting, Orlando, FL. May 2014; 46:5.
16. Herron, R. L., Collins, A. B., **Carter, S. J.**, Mitchell, J. B., and Bishop, P. A. Skin blood flow response following repeated local heating. Experimental Biology Meeting, San Diego, CA. FASEB J., April 2014; 28: 1b803.
17. **Carter, S. J.**, Herron, R. L., Akers, S. Z., Collins, A. B., and Wingo, J. E. Aspirin ingestion does not alter the onset or slope of local sweat rate during whole-body passive heat stress. Experimental Biology Meeting, San Diego, CA. FASEB J., April 2014.
18. Mitchell, J. B., Herron, R. L., **Carter, S. J.**, Hornsby, J. H., and Bishop, P. A. Strength training recovery in adolescent athletes. Southeast Chapter of the American College of Sports Medicine Regional Meeting, Greenville, SC. February 2014.
19. Casey, J. C., Ng, J., Herron, R. L., **Carter, S. J.**, Katica, C. P., and Wingo, J. E. Acute cooling does not attenuate the VO₂max reduction associated with cardiovascular drift during heat stress. Southeast Chapter of the American College of Sports Medicine Regional Meeting, Greenville, SC. February 2014.
20. **Carter, S. J.**, and Hodges, G. J. Contributions of endothelial nitric oxide synthase, norepinephrine, and neuropeptide Y to local warming-induced cutaneous vasodilation in humans. Experimental Biology Meeting, Boston, MA. FASEB J., April 2013.
21. Collins, A. B., **Carter, S. J.**, Del Pozzi, A. T., and Hodges, G. J. Hormone status does not alter noradrenergic sympathetic neurotransmitter involvement during local skin warming in young human females. Experimental Biology Meeting, Boston, MA. FASEB J., April 2013.
22. Herron, R. L., **Carter, S. J.**, Williford, H. N., and Esco, M. R. Association of body composition and aerobic fitness on heart rate variability and recovery in Black men. National Strength and Conditioning Annual Meeting, Las Vegas, NV. July 2013.
23. Herron, R. L., **Carter, S. J.**, Williford, H. N., and Esco, M. R. The relationship between fat-mass, fat-free mass, and heart rate variability. National Strength and Conditioning Annual Meeting, Las Vegas, NV. July 2013.
24. Collins, A. B., **Carter, S. J.**, Del Pozzi, A. T., and Hodges, G. J. Norepinephrine but not neuropeptide Y is involved in the cutaneous vasodilator response in young human females. Experimental Biology Meeting, San Diego, CA. FASEB J., March 2012; 26: 1b751.
25. Del Pozzi, A. T., **Carter, S. J.**, Collins, A. B., and Hodges, G. J. Regional differences in noradrenergic and nitric oxide involvement in the cutaneous vasodilator responses to local heating. Experimental Biology Meeting, San Diego, CA. FASEB J., March 2012; 26: 1b752.
26. **Carter, S. J.**, Del Pozzi, A. T., Collins, A. B., and Hodges, G. J. The involvement of nitric oxide synthase in the die-away phenomenon during prolonged local skin heating. Experimental Biology Meeting, San Diego, CA. FASEB J., March 2012; 26: 1b753.

27. **Carter, S. J.**, and Hodges, G. J. Sensory and sympathetic nerve contributions to the cutaneous vasodilator responses to a noxious heat stimulus. Experimental Biology Meeting, Washington D. C., VA. FASEB J., March 2011; 25: lb481.
28. Pritchett, K. L., Bishop, P. A., Pritchett, R. C., Green, J. M., Katica, C. P., and **Carter, S. J.** Acute effects of chocolate milk and a commercial recovery beverage on post-exercise muscle damage and endurance cycling performance. American College of Sports Medicine Annual Meeting, Seattle, WA. May 2009.

PROFESSIONAL MEMBERSHIPS

2012 – present	Southeast Chapter of the American College of Sports Medicine
2011 – present	American Physiological Society
2010 – present	American College of Sports Medicine

CERTIFICATIONS

2010 – present	American College of Sports Medicine Certified Personal Trainer
2007 – present	American Heart Association CPR/AED

PROFESSIONAL SERVICE

Journal Review (ad hoc):

2017 –	American Journal of Physiology: Regulatory, Integrative and Comparative Physiology
2016 –	Obesity Research and Clinical Practice
2016 –	PLoS One
2016 –	Journal of Physical Activity & Health
2016 –	European Journal of Cancer Care
2016 –	Journal of Sports Sciences
2016 –	Clinical and Experimental Pharmacology and Physiology
2014 –	Obesity
2014 –	Journal of Strength and Conditioning Research
2013 –	Journal of Medicine and Science in Sport

Obesity and Energetics Offerings (weekly contributor):

2014 – 2016	University of Alabama at Birmingham; Nutrition Obesity Research Center
-------------	------------------------------------------------------------------------

F1000 Recommendation

Allison, D. B. and **Carter, S. J.** F1000Prime Recommendation of [Gatterer H et al., Normobaric intermittent hypoxia over 8 months does not reduce body weight and metabolic factors – a randomized, single blind, placebo-controlled study in normobaric hypoxia and normobaric sham hypoxia. Obesity Facts. 2015. 8(3): 200-209.] In F1000Prime, 25 October 2015; DOI: 10.3410/f.725782868.793509630. [link](#)

INVITED/PROFESSIONAL PRESENTATIONS

Summer 2017	Carter S. J. Exercise and Physical Activity: Rethinking Contemporary Paradigms. Presented at the McWane Science Center for the Center for Community Outreach Development (BioTeach), University of Alabama at, Birmingham, AL.
-------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

- Spring 2017 Rogers L. Q. and **Carter S. J.** Exercise and Cancer, Co-chair for Thematic Poster Session, American College of Sports Medicine Annual Conference, Denver, CO.
- Spring 2017 **Carter S. J.** Optimizing Physical Activity with Simulated-Altitude in Breast Cancer Survivors. Presented at the North Central Alabama Susan G. Komen Lunch & Learn. Homewood, AL.
- Summer 2016 **Carter S. J.** Cardiovascular Physiology: Implications for Exercise Prescription. Presented at the McWane Science Center for the Center for Community Outreach Development (BioTeach), University of Alabama at Birmingham, AL.
- Spring 2016 **Carter S. J.** Simulated-Altitude as an Adjunct to Optimize Aerobic Exercise in Obese Breast Cancer Survivors with Limited Ambulatory Function: Pilot Randomized Trial. Presented at University of Alabama at Birmingham Center for Palliative and Supportive Care Center Scholars Meetings, Birmingham, AL.
- Spring 2016 **Carter S. J.** Systolic Blood Pressure Response after High-Intensity Interval Exercise is Independently Related to Decreased Small Arterial Elasticity in Normotensive African American women. Presented at the Experimental Biology Annual Conference, San Diego, CA.
- Summer 2015 **Carter S. J.** and Rogers L. Q. Exercise after Breast Cancer Diagnosis: A Translational Perspective. Presented at the 2nd Monday's Research Meeting for the Department of Nutrition Sciences at the University of Alabama at Birmingham. Birmingham, AL.
- Spring 2015 **Carter S. J.** Improved Insulin Sensitivity following an Acute Bout of High-Intensity Interval Exercise is Race Specific. Presented at the American College of Sports Medicine Annual Conference, San Diego, CA.
- Spring 2014 Collins A. B. and **Carter S. J.** Exercise in the Heat: A Female Perspective. Presented at the Alabama State Alliance of Health Physical Education Recreation and Dance (ASAHPERD) Meeting, Gulf Shores, AL.
- Spring 2014 Mitchell J. B. and **Carter S. J.** The Winding Road to Recovery: Current Knowledge of Adolescent Recovery from Exercise. Presented at the Alabama State Alliance of Health Physical Education Recreation and Dance (ASAHPERD) Meeting, Gulf Shores, AL.
- Winter 2014 **Carter S. J.** Effects of Aspirin on Temperature Regulation during Passive Whole-body Heat Stress in Humans. Presented at the Georgia Prevention Center, Augusta University, Augusta, GA.
- Fall 2013 **Carter S. J.** Influence of Acetylsalicylic Acid on Skin Blood Flow and Local Sweat Rate during Heat Stress. Presented at the University of Alabama at Birmingham Larry Mayes Research Society Meeting, Tuscaloosa, AL.
- Fall 2013 Herron R. L. and **Carter S. J.** Youth Resistance Training: Current Issues and Recommendations. Presented at the Alabama State Alliance of Health Physical Education Recreation and Dance (ASAHPERD) Meeting, Birmingham, AL.
- Spring 2013 Herron R. L. and **Carter S. J.** The Heat is On: Improving Safety and Performance in Alabama Heat. Presented at the Alabama State Alliance of Health Physical Education Recreation and Dance (ASAHPERD) Meeting, Gulf Shores, AL.

STUDENT MENTORSHIP

- 2017 – present Whitney J. Smith, Cancer Research Experiences for Students (CaRES Internship), Department of Nutrition Sciences, School of Health Professions, University of Alabama at Birmingham
- 2017 – present Josh N. Muhammad, Cancer Research Experiences for Students (CaRES Internship), Department of Nutrition Sciences, School of Health Professions, University of Alabama at Birmingham
- 2016 – present Akshar H. Patel, Undergraduate (B.S.), Department of Clinical and Diagnostic Sciences, School of Health Professions Honors Program, University of Alabama at Birmingham, anticipated graduation 2018
- 2013 – 2014 Saier Z. Akers, Undergraduate (B.S.), Department of Kinesiology, College of Education, The University of Alabama, graduated 2014, current medical student University of Alabama at Birmingham

STUDENT COLLABORATIONS

1. **Carter, S. J.**, Goldsby, T. U., Fisher, G., Plaisance, E. P., Gower, B. A., Glasser, S. P., and Hunter, G. R. Exaggerated systolic blood pressure response after high-interval exercise is related to decreased small arterial elasticity in normotensive African American women. UAB Center for Exercise Medicine 3rd Annual Symposium, Birmingham, AL. September 2015.
2. **Carter, S. J.**, Plaisance, E. P., Goss, A. M., Fisher, G., Fernandez, J. R., Gower, B. A., and Hunter, G. R. Racial differences in erythropoietin and hemoglobin before and after weight loss in premenopausal women. UAB Center for Exercise Medicine 2nd Annual Symposium, Birmingham, AL. October 2014.
3. Robinson, A., Heldman, A., Casey, J. C., Ng, J., Herron, R. L., **Carter, S. J.**, Katica, C. P., and Wingo, J. E. Effect of acute fan cooling on maximal oxygen uptake during heat stress. Undergraduate Research and Creative Activity Annual Conference. The University of Alabama, Tuscaloosa, AL. 2014.
4. **Carter, S. J.**, Herron, R. L., Akers, S. Z., and Wingo, J. E. Acute aspirin ingestion does not alter the onset or slope of local sweat rate during passive heat stress. UAB Center for Exercise Medicine 1st Annual Symposium, Birmingham, AL. October 2013.
5. Herron, R. L., **Carter, S. J.**, Akers, S. Z., Flatt, A. A., Williford, H. N., and Esco, M. R. Association of body composition and aerobic fitness on heart rate variability and recovery in Black men. UAB Center for Exercise Medicine 1st Annual Symposium, Birmingham, AL. October 2013.
6. Jones, T. M. V., **Carter, S. J.**, Herron, R. L., and Wingo, J. E. Effect of acute fan cooling on maximal oxygen uptake during heat stress. Undergraduate Research and Creative Activity Annual Conference. The University of Alabama, Tuscaloosa, AL. 2013.

ADDITIONAL WORKS

1. **Carter S. J.** "[Espargaro Closing the CRT Gap](#)" contribution prepared for Crash.net (UK-based motorsports website) in June 2013.
2. **Carter S. J.** "[Current State and Future of MotoGP: Results](#)" contribution prepared for Crash.net (UK-based motorsports website) in April 2012.
3. **Carter S. J.** "[Current State and Future of MotoGP: Survey](#)" contribution prepared for Crash.net (UK-based motorsports website) in March 2012.