

Christopher M. Wilburn, PhD

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EDUCATION

- Ph.D.** **Auburn University**, Auburn, Alabama Kinesiology
Concentrated in Biomechanics
Dissertation: *The Influence of Foot Type on Propulsion Mechanics and the Mechanical Properties of the Achilles Tendon in Jumping and Locomotive Tasks*
August 2017
- M.Ed.** **Auburn University**, Auburn, Alabama Exercise Science
Concentrated in Biomechanics August 2014
- B.A.** **Morehouse College**, Atlanta, Georgia
Kinesiology, Sports Science and Physical Education, *Magna Cum Laude*
August 2013

PROFESSIONAL EXPERIENCE

- | | |
|---|----------------------------|
| Auburn University , Auburn, Alabama
Assistant Clinical Professor | August 2017-present |
| Auburn University , Auburn, Alabama
Graduate Director of Sports Biomechanics Laboratory | August 2016 –August 2017 |
| Auburn University , Auburn, Alabama
<i>Graduate Teaching Assistant</i> | May 2013-August 2017 |
| Auburn University , Auburn, Alabama
<i>Graduate Assistant- Student- Athlete Tutor</i> | September 2013-August 2014 |

RESEARCH SCHOLARSHIP

Publications

Iso-Ahola, S.E., Dotson, C.O., Jagodinsky, A.E., Clark, L.C., Smallwood, L.L., **Wilburn, C.**, Weimar, W.H., & Miller, M.W. (2016). Improving performance by anchoring movement and "nerves." *Human Movement Science*, 49, 239-247

Publications in Review

Price, S.L., Williams, R., **Wilburn, C.M.**, Williams, P.T., Wadsworth, D.D., Weimar, W.H., Russell, J.A., & Rudisill, M.E. Promoting Diversity and Inclusion: Developing Partnerships Between HBCU and PWI.

Grant Activity

Weimar, W.H. & **Wilburn, C.M.** (October 2015). Foot Health in Under-represented Youth. Auburn University Office of University Outreach and Engagement. Funding Amount: \$16,087. (Rejected)

Hendricks, C.S. (Principal), Popoola, S., & **Wilburn, C.M.** (May 2015). Auburn University: Taking "It" To the People Southern Style. Auburn University Office of Outreach. Funding Amount: \$10,000.

Hendricks, C.S. (Principal), Popoola, S., & **Wilburn, C.M.** (October 2014). Auburn University: Taking "It" To the People Southern Style. Auburn University Office of Outreach. Funding Amount: \$10,000.

Hendricks, C.S. (Principal), Popoola, S., & **Wilburn, C.M.** (October 2013). Auburn University: Taking "It" To the People Southern Style. Auburn University Office of Outreach. Funding Amount: \$10,000.

Presentations: Referred & Invited Paper Presentations & Symposia

Wilburn, C.M., Fox, J.W., Jagodinsky, A.E., Decoux, B.E., Williams, P. T., Brewer, L.E., Smallwood, L.L., Moore, N.H., Kitchens, M.W., & Weimar, W.H.. (2017). The Influence of Sock Type and Lacing Strategy on the Center of Pressure in Walking Gait. *Poster submitted for acceptance at the American Society of Biomechanics Annual Conference, Boulder, CO.*

Williams, P.T., **Wilburn, C.M.**, Dupiton, M.E., Morris, M.A., Mcroy, J.E., Price, S.L., & Weimar, W.H. (2017). Foot Morphology of School Aged Children in A Developmental Research School. *Poster submitted for acceptance at the American Society of Biomechanics Annual Conference, Boulder, CO.*

- Decoux, B.E., **Wilburn, C.M.**, Williams, P.T., Weimar, W.H., Morris, M.A., Dupiton, M.E., & Price, S.L. (2017). Assessment of Gait Harmony in Elementary School Minority Students Using a Golden Ratio-Centered Approach. *Poster submitted for acceptance at the American Society of Biomechanics Annual Conference, Boulder, CO.*
- Brewer, L.E., Decoux, B.E., **Wilburn, C.M.**, Kitchens, M.W., Moore, N.H., Williams, P.T., Wire, N., & Weimar, W.H. (2017). Effect of Load Position During Stance Phase of Gait During Load Carriage. *Poster submitted for acceptance at the American Society of Biomechanics Annual Conference, Boulder, CO.*
- Moore, N.H., Kitchens, M.W., **Wilburn, C.M.**, Smallwood, L.L, Brewer, L.E., Decoux, B.E., Williams, P.T., & Weimar, W.H. (2017). Post Activation Potentiation Effects on the Amortization Phase of the Vertical Jump. *Poster submitted for acceptance at the American Society of Biomechanics Annual Conference, Boulder, CO.*
- Kitchens, M.W., Moore, N.H., **Wilburn, C.M.**, & Weimar, W.H. (2017). Effect of Postactivation Potentiation on Peak Power in a Vertical Jump. *Poster submitted for acceptance at the American Society of Biomechanics Annual Conference, Boulder, CO.*
- Wilburn, C.M.**, Fox, J.W., Jagodinsky, A.E., Decoux, B.E., Williams, P. T., Brewer, L.E., Smallwood, L.L., Moore, N.H., Kitchens, M.W. & W.H. Weimar. (2017). The Interaction of Arch Height Stiffness and Center of Pressure Mediolateral Deviation in Different Sock Types. *Poster presented at Southeastern American College of Sports Medicine Annual Conference, Greenville, SC.*
- Decoux, B.E., **Wilburn, C.M.**, Brewer, L.E., Fox, J.W., Jagodinsky, A.E., Williams, P. T., Smallwood, L.L., Moore, N.H., Kitchens, M.W. & W.H. Weimar. (2017). Investigation of Static Versus Dynamic Arch Height Stiffness and Bilateral Symmetry During Barefoot Walking. *Poster to be presented at Southeastern American College of Sports Medicine Annual Conference, Greenville, SC.*
- Williams, P. T., **Wilburn, C.M.**, Dupiton, M.E., Morris, M.A., McRoy, J.E., Price, S.L., Smallwood, L.L., Kitchens, M.W., Moore, N.H., Decoux, B.E., Brewer, L.E., & Weimar, W.H. (2017). Arch Height Stiffness and Arch Height Index Across Grades. *Poster to be presented at Southeastern American College of Sports Medicine Annual Conference, Greenville, SC.*
- Kitchens, M.W., Jagodinsky, A.E., **Wilburn, C.M.**, Moore, N.H., Bois, K.R., Bois, & Weimar, W.H. (2017). The Influence of an Isometric Squat on Vertical Jump. *Poster presented at Southeastern American College of Sports Medicine Annual Conference, Greenville, SC.*

- Moore, N.H., Kitchens, M.W., Brewer, L.E., Decoux, B.E., **Wilburn, C.M.**, Smallwood, L.L., Williams, P. T., & Weimar, W.H. (2017). Influence of Preparatory Arm Motion on Running Acceleration. *Poster to be presented at Southeastern American College of Sports Medicine Annual Conference, Greenville, SC.*
- Smallwood, L.L., Williams, P. T., Moore, N.H., Kitchens, M.W., **Wilburn, C.M.**, & Weimar, W.H. (2017). Interaction of High Heel Shoe Insert During Gait. *Poster presented at Southeastern American College of Sports Medicine Annual Conference, Greenville, SC.*
- Price, S.L., Weimar, W. H., Wadsworth, D., **Wilburn, C.M.**, Williams, P.T., & Rudisill, M.E. (2017). Research Collaborations between Majority and Minority Serving Institution: Auburn University and Florida A&M University makes it happen *Round Table Discussion presented at American Kinesiology Leadership Workshop, Westlake, TX.*
- Rehm, J., Jagodinsky, A., **Wilburn, C.**, Smallwood, L., Wright, T., Windham, J., & Weimar, W. (2016) Measuring trunk stability for wheelchair basketball classification, North American Federation of Adapted Physical Activity 2016 Symposium, Edmonton, Canada.
- Rehm, J., Jagodinsky, A., **Wilburn, C.**, Smallwood, L., Wright, T., Windham, J., & Weimar, W. (2016) Measuring volume of action for wheelchair basketball classification, North American Federation of Adapted Physical Activity 2016 Symposium, Edmonton, Canada.
- Iso-Ahola, S. E., Jagodinsky, A. E., Clark, L. C. , Smallwood, L. L., **Wilburn, C.**, Weimar, W. H., Dotson, C. O., & Miller, M. W. (2016). Improving performance by anchoring movement and “nerves”. *Poster presented at the North American Society for the Psychology of Sport and Physical Activity Annual Meeting, Montreal, Canada.*
- Wilburn, C.M.**, Fox, J.W., Nability, C.E., Javage, E.A., Jagodinsky, A.E., & Smallwood, L.L. (2016). Quantifying the Effects of Athletic Socks on Foot Function During Gait. *Orally presented at the Auburn University: This is Research Student Annual Symposium. Auburn University*
- Nability, C.E., **Wilburn, C.M.**, Fox, J.W., Javage, E.A., Jagodinsky, A.E., & Smallwood, L.L. (2016). Influence of Sock Type on Gait Parameters. *Poster presented at the Auburn University: This is Research Student Annual Symposium. Auburn University*
- Javage, E.A., **Wilburn, C.M.**, Fox, J.W., Nability, C.E., Jagodinsky, A.E., & Smallwood, L.L. (2016). The Effect of an Alternative Lacing Strategy on Gait Parameters. *Poster presented at the Auburn University: This is Research Student Annual Symposium. Auburn University*

- Wilburn, C.M.**, Fox, J.W., Jagodinsky, A.E., Nabity, C.E., Javage, E.A., Smallwood, L.L., Williams, P.T., Moore, N. H., Kitchens, M.W., Bois, K.R., & Weimar, W.H. (2016). The influence of Sock Type on Foot Function During Walking Gait. *Orally presented at National Black Graduate and Professional Student Association Annual Conference. Houston, TX.*
- Wilburn, C.M.**, Fox, J.W., Jagodinsky, A.E., Smallwood, L.L., Moore, N.H., Kitchens, M.W., Bois, K. R., Williams, P.T., & Weimar, W.H. (2016) The Impact of Sock Type on the Center of Pressure and Spatio-Temporal Parameters of Gait. *Thematic poster presented at Southeastern American College of Sports Medicine Annual Conference, Greenville, SC.*
- Nabity, C.E., **Wilburn, C.M.**, Fox, J.W., Javage, E.A., Jagodinsky, A.E., Smallwood, L.L., & Weimar, W.H. (2016). Interaction of Arch Type and Various Socks on Center of Pressure Deviation. *Poster presented at Southeastern American College of Sports Medicine Annual Conference, Greenville, SC.*
- Javage, E.A, **Wilburn, C.M.**, Fox, J.W., Nabity, C.E., Jagodinsky, A.E., Smallwood, L.L., & Weimar, W.H. (2016). The Effect of Arch Type and Sock Type During Shod Gait. *Poster presented at Southeastern American College of Sports Medicine Annual Conference, SC.*
- Moore, N.H., **Wilburn, C.M.**, Fox, J.W., Jagodinsky, A.E., Smallwood, L.L., Kitchens, M.W., Bois, K. R., Williams, P.T., Brewer, J.M. & Weimar, W.H. (2016). The Impact of Athletic and Cotton Socks on Toe In and Out and Walking Velocity During Shod Gait. *Poster presented at Southeastern American College of Sports Medicine Annual Conference, Greenville, SC.*
- Bois, K.R., **Wilburn, C.M.**, Fox, J.W., Jagodinsky, A.E., Smallwood, L.L., Moore, N.H., Kitchens, M.W., Bois, K. R., Williams, P.T., Brewer, J.M. & Weimar, W.H. (2016). The Impact of Sock Type on Stride Length and Stride Frequency. *Poster presented at Southeastern American College of Sports Medicine Annual Conference, Greenville, SC.*
- Kitchens, M.W., **Wilburn, C.M.**, Fox, J.W., Jagodinsky, A.E., Smallwood, L.L., Moore, N.H., Bois, K. R., Williams, P.T., Brewer, J.M. & Weimar, W.H. (2016). Influence of Arch Height and Sock Type on Toe-In and Toe-Out During Gait. *Poster presented at Southeastern American College of Sports Medicine Annual Conference, Greenville, SC.*
- Williams, P.T., **Wilburn, C.M.**, Fox, J.W., Jagodinsky, A.E., Smallwood, L.L., Moore, N.H., Kitchens, M.W., Bois, K. R., & Weimar, W.H. (Feb. 2016). The Effect of Arch Type and Sock Type During Shod Gait with a Runner's Loop Lacing Strategy. *Poster presented at Southeastern American College of Sports Medicine Annual Conference, Greenville, SC.*

- Jagodinsky, A.E, Costello, D., **Wilburn, C.M.**, Smallwood, L.L, & Weimar, W.H. (2016). Assessment of Lower Extremity Joint Kinetics During Continuous Bout of Kettlebell Swings. *Poster presented at Southeastern American College of Sports Medicine Annual Conference*, Greenville, SC.
- Smallwood, L.L., **Wilburn, C.M.**, Jagodinsky, A.E., Moore, N.H., Kitchens, M.W., Bois, K.R., & Weimar, W.H. (2016). Interaction of Shoe Type on Stride Parameters. *Poster presented at Southeastern American College of Sports Medicine Annual Conference*, Greenville, SC.
- Fox, J.W., Jagodinsky, A.E., **Wilburn, C.M.**, Smallwood, L.L., & Weimar, W.H. (2016). Force Capacity Increases With Leg Extension. *Poster presented at Southeastern American College of Sports Medicine Annual Conference*, Greenville, SC.
- Fox, J.W., Jagodinsky, A.E., Smallwood, L.L., **Wilburn, C.M.**, & Weimar, W.H. (2015). Influence of a Self- Induced Drop on Vertical Jump Performance. *Poster presented at American Society of Biomechanics Annual Conference*, Columbus, OH.
- Smallwood, L.L., Jagodinsky, A.E., **Wilburn, C.M.**, & Weimar, W.H. (2015). Influence of Heel Type on Stride Length. *Poster presented at American Society of Biomechanics Annual Conference*, Columbus, OH.
- Jagodinsky, A.E., **Wilburn, C.M.**, Smallwood, L.L. & Weimar, W.H. (2015). Fatigue Effects on Lower Extremity Coordination and Coordination Variability During Multi-joint Ballistic Movement. *Poster presented at American Society of Biomechanics Annual Conference*, Columbus, OH.
- Irwin, J.M, Rudisill, M.E., **Wilburn, C.M.**, & Weimar, W.H. (2015). Team Player: The Role of Balance in Development of Fundamental Motor Skills. A Pilot Study. *Orally presented at Auburn University: This is Research Student Annual Symposium*. Auburn, Alabama.
- Hendricks, C.S., Popoola, S., & **Wilburn, C.M.** (2015). Taking Health Promotion Self Care to People Southern Style. *Orally presented at Alabama State Nurse Association Elisabeth A. Morris Annual Clinical Session*. Montgomery, AL.
- Hendricks, C.S., Popoola, S., & **Wilburn, C.M.** (2015). Digital Signage Connecting Self-Care Health Promotion Outreach. *Orally presented at Auburn University Outreach Scholarship Annual Symposium*. Auburn, AL.
- Wilburn, C.M.**, Fox, J.W., Jagodinsky, A.E., Smallwood, L.L., & Weimar, W.H. (2015). Influence of Shoe Lacing Strategies on Center of Pressure Deviation. *Poster presented at Southeastern American College of Sports Medicine Annual Conference*, Jacksonville, FL.

- Smallwood, L.L., Fox, J.W., Jagodinsky, A.E., **Wilburn, C.M.**, Weimar, W.H. (2015). Examination of Spatiotemporal Parameters Involving Shoe Lacing Strategies and Gait. *Poster presented at Southeastern American College of Sports Medicine Annual Conference*, Jacksonville, FL.
- Hendricks, C.S., Popoola, S., & **Wilburn, C.M.** (2014). Using Translational Strategies & Technology to Promote healthy Lifestyles. *Orally presented at Biomedical Research Symposium and Phi-Zeta Research Day Annual Conference*. Tuskegee, AL.
- Hendricks, C.S., Popoola, S., & **Wilburn, C.M.** (2014). Taking “It” to the People Southern Style (AU: TIPSS). *Orally presented at Auburn University Research Week Annual Symposium*. Auburn, AL.
- Jagodinsky, A.E., Fox, J.W., Smallwood, L.L., **Wilburn, C.M.**, & Weimar, W.H. (2014). The Effect of Arch height and Stiffness on Center of Pressure Differences Between Shoe Lacing Strategies. *Poster presented at Southeastern American College of Sports Medicine Annual Conference*, Greenville, SC.
- Hendricks, C.S., Popoola, S., & **Wilburn, C.M.** (2014). AU TIPSS- Enhancing Outreach with Technology. *Orally presented at Auburn University Outreach Scholarship Annual Symposium*. Auburn, AL.

ACADEMIC AWARDS AND HONORS

- 2015-2016** **President’s Graduate Opportunity Program**, Auburn, Alabama
\$20,000-Auburn University
- 2015** **Diversity Travel Fellowship**, American Society of Biomechanics Fellowship
\$300
- 2014** **Lila White Fellowship**, Auburn, Alabama
\$5,000- Auburn University
- 2014** **Phi Kappa Phi Honor Society**, Auburn, Alabama
Auburn University
- 2013** **Future Scholars Summer Bridge Research Program**, Auburn, Alabama
\$2,300 (via Charles Barkley Foundation)- Auburn University
- 2013** **Samuel H. Archer Sr. “Big Boy Award**, Atlanta, Georgia
\$500- Morehouse College
- 2013** **Phi Epsilon Kappa Fraternity**, Morehouse College, Atlanta, Georgia

2012 **Phi Beta Kappa Honor Society**, Morehouse College, Atlanta, Georgia

2011 **Oprah Winfrey Scholarship Program**, Atlanta, Georgia
\$25,000- Morehouse College

TEACHING SCHOLARSHIP

Undergraduate Courses Taught

PHED 1003: Active Auburn

PHED 1340: Weight Training

PHED 1410: Team Sports: Basketball

KINE 3003: Medical Terminology for Allied Health Professions

KINE 3620: Biomechanical Analysis of Human Movement

KINE 4563: Sport Technique and Movement Analysis

KINE 4640: Physical Conditioning and Speed

Guest Presentations

Wilburn, C.M. (2016) Kinesiology: It's Not Just an Ordinary Science. Phenix City Intermediate School Career Day. Phenix City, AL

Wilburn, C.M. (2015). The Lower Extremity and its Contributive Influence on Locomotive and Balancing Tasks. Langston University Kinesiology Class (via skype). Auburn, AL

Wilburn, C.M. (2015). Posture, Footwear and Physical Assessments. Auburn University Graduate and Professional Student Association Monthly Meeting. Auburn, AL.

PROFESSIONAL SERVICE

Professional, Community, National, & State Governance and Service Activity

2016 **Manuscript Reviewer**, Journal of Sport and Health Science

2016-2017 **Judicial Chair**, National Black Graduate Student Association

2016-2017 **Mentor**, Pick Elementary School, Auburn, Alabama

2013-2016 **Movement Analyst**, United States Army

2013-present **Movement Analyst**, United States and International Athletes

Department, College, & University Governance and Service Activity

2016-2017 **Graduate Student Representative**, Auburn University School of Kinesiology Faculty Selection Committee

- 2016-2017** **Vice-President**, Black Graduate & Professional Student Association, Auburn University
- 2016** **Graduate Student Research Initiative Representative**, Auburn University
 -Florida A&M University
 -Morehouse College
- 2014-present** **Selection Committee Member**, Future Scholars Summer Bridge Research Program, Auburn University
- 2013-2015** **Movement Analyst**, Track and Field Team, Auburn University
- 2013-present** **Movement Analyst**, Auburn University
 - Swimming and Diving Team,
 -Summer Youth Swim Camps
 -Summer Youth Speed and Agility Camp
- 2013** **President**, James P. Haines Society, Morehouse College
- 2013** **President and Co-Charter Founder**, Phi Epsilon Kappa Fraternity, Morehouse College
- 2012** **Vice-President**, James P. Haines Society, Morehouse College

PROFESSIONAL AFFILIATIONS & MEMBERSHIPS

- 2015** American Society of Biomechanics
- 2014** International Society for Posture and Gait Research
- 2013** American College of Sports Medicine