

CURRICULUM VITAE
Christopher D. Black, Ph.D.
July, 2022

Associate Professor
Department of Health and Exercise Science
University of Oklahoma
Norman, OK
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Education

Degree: **Doctor of Philosophy**
Major Area: Exercise Physiology
Institution: The University of Georgia; Athens, GA
Begun: August 2003
Date conferred: August 2007 (GPA – 4.00)
Major Professor: Gary Dudley and Kevin McCully
Dissertation Title: “Determinants of Exercise Induced Skeletal Muscle Injury Following Eccentric Exercise”

Degree: **Master of Arts**
Major Area: Exercise Physiology
Institution: The University of Georgia; Athens, GA
Begun: August 2001
Date Conferred: August 2003 (GPA – 4.00)
Major Professor: Kevin McCully
Thesis Title: “Effects of Four Weeks of Increased Physical Activity in Individuals with Chronic Fatigue Syndrome.”

Degree: **Bachelor of Arts** (Magna cum laude)
Major Area: Biology
Institution: Hendrix College; Conway, AR
Begun: September 1996
Date Conferred: May 2000 (GPA – 3.91)

Professional Experience

- Associate Professor (July 2019-present)
Department of Health and Exercise Science
University of Oklahoma, Norman, OK

- Assistant Professor (August 2013-June 2019)
Department of Health and Exercise Science
University of Oklahoma, Norman, OK
- Assistant Professor (August 2011-July 2013)
Department of Health, Exercise Science, and Recreation Management
University of Mississippi, Oxford, MS
- Assistant Professor (August 2008-August 2011)
Department of Kinesiology
Georgia College and State University, Milledgeville, GA
- Post-Doctoral Research Fellow (August 2007-July 2008)
Department of Kinesiology
University of Georgia, Athens, GA
- Graduate Teaching/Research Assistant (August 2001-August 2007)
Department of Exercise Science/Kinesiology
University of Georgia, Athens, GA

Courses Taught (Instructor of Record)

University of Oklahoma

HES 3813: Principles of Health and Fitness
 HES 3980: Honors Research
 HES 4853: Chronic Disease Intervention
 HES 4953: Senior Capstone
 HES 5430: Internship – Health and Exercise Science
 HES 5823: Exercise Physiology
 HES 5960: Directed Readings
 HES 5990: Independent Study
 HES 6000: Fatigue
 HES 6843: Neuromuscular Physiology
 HES 6970: Graduate Seminar

University of Mississippi

HP 203: First Aid and CPR
 ES 348: Physiology of Exercise
 ES 391: Trends and Topics in Exercise Science (Physical Activity and Health)
 ES 456: Exercise Testing and Prescription
 ES 611: Exercise Physiology I
 ES 613: Health Aspects of Physical Activity
 ES 616: Exercise Physiology II
 ES 618: Advanced Muscle Physiology

Georgia College and State University

BIOL 2170: Anatomy and Physiology II

HSCS 2823: Human Physiology
 KINS 3203: Physiology of Exercise
 KINS 3212: Clinical Experiences in Exercise Science I
 KINS 3223: Biomechanics
 KINS 3233: Methods of Resistance Training
 KINS 3262: Exercise Testing for Normal and Special Populations
 KINS 3272: Clinical Experiences in Exercise Science II
 KINS 3403: Motor Behavior
 KINS 4203: Principles of Strength and Conditioning
 KINS 4803: Special Topics: Physical Activity and Health
 KINS 6603: Performance Physiology
 KINS 6650: Design and Implementation of Strength and Conditioning Programs
 KINS 6653: Sports Nutrition (On-line)
 KINS 6833: Special Topics in Kinesiology

University of Georgia

EXRS 3700: Applied Exercise Physiology
 EXRS 4690: Exercise Physiology I
 EXRS 4630: Exercise Physiology II
 PEDB 1400: Weight Training
 PEDB 1230: Beginning Racquetball
 PEDB 1240: Intermediate Racquetball
 PEDB 1260: Softball
 PEDB 1120: Beginning Golf

Professional Associations

- Phi Beta Kappa 2000 - present
- ACSM (American College of Sports Medicine) 2003 - present

Honors/Awards

University of Oklahoma

- Fellow (American College of Sports Medicine) 2017 - present

Georgia College and State University

- 2010-2011 Excellence in Scholarship Award (GCSU Foundation) 2011
- Carnation Professor Award (Phi Mu Fraternity) 2010
- Crown Professor Award – College of Health Sciences (Zeta Tau Alpha Sorority) 2009

University of Georgia (Post-Doctoral Fellow)

- American Pain Society Young Investigator Travel Award 2008

University of Georgia (Masters/Doctoral Student)

- Graduate Teaching/Research Assistant 2001-2007
- Graduate School Dissertation Completion Award 2006-2007

- Louise Kindig Research Award (Outstanding doctoral research proposal) 2006-2007
- Achievement Reward for College Scientist (ARCS) Foundation
Scholarship: Outstanding Biomedical and Health Science Student 2005-2007
- Graduate School Travel Award 2004, 2006
- Kinesiology Department Travel Award 2004, 2006

Hendrix College

- Phi Beta Kappa 2000
- Chairman Scholarship 1996-2000
- Robert C. Byrd Honor Scholarship 1996-2000

Funding Experience

University of Oklahoma

1. Arthritis Research Foundation
 “Effect of Physical Activity Level and Body Composition on Pain Sensitivity and Endogenous Pain Inhibition in Patients with Osteoarthritis”
Role: Principal Investigator
Status: Submitted January, 2020
Amount: \$98,000 over 1 year

2. Presbyterian Health Foundation (University of Oklahoma Health Sciences Center)
 “MS FIRST (Functional Inter-muscular Reduction in Spasticity)”
 Role: Co-Principle Investigator (Norman campus with Rebecca Larson)
 Status: Funded (July 2019)
 Amount: \$14,066

3. Oklahoma Center for the Advancement of Science and Technology
 “Effect of Physical Activity Level on Pain Sensitivity and Endogenous Pain Inhibition in Patients with Osteoarthritis”
Role: Principal Investigator
Status: Not funded (Submitted April, 2018)
Amount: \$135,000 over 3 years

4. College of Arts and Sciences Junior Faculty Fellowship
 “Relationship Among Total Body and Site Specific Body Composition, Pressure Pain Sensitivity, and Endogenous Pain Inhibitory Function”
Role: Principal Investigator
Status: Not Funded (Submitted in March, 2018)
Amount: \$7000

5. Arthritis Research Foundation
“Effect of Physical Activity Level on Pain Sensitivity and Endogenous Pain Inhibition in Patients with Osteoarthritis”
Role: Principal Investigator
Status: Not funded (Submitted January, 2018)
Amount: \$100,000 over 1 year

6. CRPDE Junior Faculty Fellowship
“Effect of Physical Activity Level on Pain Sensitivity and Endogenous Pain Inhibition in Patients with Osteoarthritis”
Role: Principal Investigator
Status: Funded
Amount: \$7000 (Summer 2017)

7. Publication Subvention Support
OU OVPR: \$200 (2017)
OU Provost Office: \$200
OU College of Art and Sciences: \$200

8. College of Arts and Sciences Junior Faculty Fellowship
“Central Nervous System Adaptations Underlying Cross-Education following Unilateral Resistance Exercise”
Role: Principal Investigator
Status: Funded
Amount: \$7000 (Summer 2016)

9. Publication Subvention Support
OU OVPR: \$200 (2015)
OU Provost Office: \$200
OU College of Art and Sciences: \$200

10. Titin Incorporated
“Comprehensive evaluation of the performance and physiologic response elicited by a novel weighted compression shirt system”
Role: Co-Principal Investigator with Carl Ade and Rebecca Larson
Status: Not funded
Amount: \$92,000

11. CRPDE Junior Faculty Fellowship

“Neuromuscular function prior to and following graded exercise in chronic fatigue syndrome”

Role: Principal Investigator

Status: Funded

Amount: \$7000 (Summer 2014)

12. Oklahoma EBSCOR (Phase-1 Proposal)

“Determination of the Time Course of Muscle and Cardiovascular Adaptations to Unloading: A Mechanistic Approach”

Role: Co-Investigator (Carl Ade - PI; Rebecca Larson - Co-PI)

Status: Not Funded

Amount: \$750,000

13. College of Arts and Sciences Travel Assistance Program

- a. 2016 American College of Sports Medicine Annual Meeting (\$1,506)
- b. 2015 American College of Sports Medicine Annual Meeting (\$1,431)
- c. 2014 American College of Sports Medicine Annual Meeting (\$704)

University of Mississippi

1. OVPR University Travel Grant

Status: Funded (\$500) Summer 2013

2. School of Applied Sciences Summer Research Grant

“The contribution of changes in spinal excitability to force loss following exercise-induced muscle damage.” (Chris Black, P.I.) Status: Funded (\$9,500) Summer 2012

Georgia College and State University

1. GCSU Faculty Research Grant

“Effects of the battling ropes training system on excess-post exercise oxygen consumption and blood lactate.” (Chris Black, Co-P.I.) Status: Funded (\$1500) Fall 2010

2. GCSU Faculty Research Grant

“Relationship among running economy, lactate threshold and distance running performance.” (Chris Black, P.I.) Status: Funded (\$1000) Fall 2009

3. GCSU Faculty Research Grant

“The effects of delayed-onset muscle pain on maximal and submaximal exercise performance and quadriceps muscle activation”, (Chris Black, P.I.) Status: Not funded (\$7500) Spring 2009

4. GCSU Faculty Research Grant
“Effects of walking versus driving to and from class on daily physical activity in GCSU students”, (Chris Black, P.I.) Status: Not funded (\$700) Spring 2009
5. GCSU Faculty Research Grant
“The effects of inflammatory muscle pain on exercise performance”,(Chris Black, P.I.) Status: Funded (\$950) for Fall 2008 to Summer 2009
6. GCSU Faculty Research Grant
“Exploring admission and attrition in athletic training”, (Kirk Armstrong, P.I.; Chris Black, Co-P.I.) Status: Funded (\$750) for Fall 2008 to Spring 2009

University of Georgia

1. McCormick Science Institute
“Effects of consumption of selected dietary spices on health and performances outcomes.” (Pat O’Connor. P.I.)
Role: Post-Doctoral Fellow. Contributed to experimental design, responsible for subject recruitment, data collection, and data analysis.
2. Procter & Gamble Pharmaceuticals, Inc.
“Unilateral lower limb suspension and its effects on voluntary strength, skeletal muscle size and composition.” (Gary Dudley, P.I.)
Role: Student study coordinator. Responsible for experimental design, subject recruitment, and supervised all data collection and analysis.
3. National Institute of Health
“Skeletal muscle plasticity, fitness, and health.” (Gary Dudley, P.I.)
Role: Student. Aided in experimental design, supervised resistance training, assisted in data collection and analysis. Primarily responsible for experimental designs, data collection, and data analysis for studies aimed at determining optimal stimulation parameters to limit fatigue and injury.
4. National Institute of Health
“Muscle blood flow and spinal cord injury.” (Gary Dudley, P.I.; Kevin McCully Co-P.I.)
Role: Student. Aided in experimental design, supervised resistance training, assisted in data collection and analysis.
5. University of Georgia Intramural Funds
UGA-Shepherd Center, “Vascular health in spinal cord injured patients”, (Kevin McCully, P.I.), 2003
Role: Student. Aided in experimental design and assisted in data collection and analysis.
6. National Institute of Health
“The role of skeletal muscle blood flow in chronic fatigue syndrome.” (Kevin McCully, P.I.)

Role: Student. Aided in experimental design, and carried out a study (Master Thesis) to determine the effects of increased physical activity on fatigue, mood, and cardiovascular measures in patients clinically diagnosed with chronic fatigue syndrome.

Professional Service

Tenure Dossier Reviewer

- University of South Alabama (2020)
- Oklahoma State University (2020)

Central States American College of Sports Medicine Chapter

- Secretary/Treasurer (Oct. 2015-Oct. 2018)

Ad Hoc Grant Reviewer

- Center for Medicinal Cannabis Research (2019)
- Austrian Science Fund Erwin Schrodinger Fellowship (2018)
- North Carolina Biotech Center Multidisciplinary Research Grant (2013, 2014, 2015)
- Central States Chapter of the American College of Sports Medicine (2016 – present)

Ad Hoc Manuscript Reviewer

1. Physiotherapy Theory and Practice (2006)
2. International Journal of Sport Nutrition and Exercise Metabolism (2008)
3. Archives of Physical Medicine and Rehabilitation (2008, 2015, 2016, 2018)
4. Journal of Psychosomatic Research (2009)
5. Journal of Applied Physiology (2009, 2010, 2019)
6. Phytotherapy Research (2009, 2010)
7. Molecules (2010)
8. Journal of Pharmacy and Pharmacology (2010)
9. Journal of Medicinal Food (2011)
10. Rheumatology (2011, 2013)
11. European Journal of Sport Sciences (2011, 2019, 2020, 2021)
12. Journal of Caffeine Research (2011, 2014, 2015, 2016, 2017)
13. Research Quarterly in Exercise Science (2011, 2012)
14. Clinical Journal of Pain (2011, 2012, 2014, 2015)
15. The Journal of Sports Medicine and Physical Fitness (2012, 2013, 2014, 2015)
16. Trainiology (2012)
17. Journal of Exercise Science and Fitness (2013, 2015)
18. Biomed Research International (2013)
19. Sports Medicine (2013)
20. European Journal of Applied Physiology (2013, 2014, 2015, 2016, 2018, 2019, 2020, 2021)
21. Journal of Sports Science (2014, 2015, 2016)
22. Menopause (2014)
23. American Journal of Physical Medicine & Rehabilitation (2014, 2015)

24. Muscle Nerve (2014)
25. International Journal of Exercise Science (2015)
26. Medicine & Science in Sport & Exercise (2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022)
27. Journal of Strength and Conditioning Research (2015, 2016, 2017, 2018, 2019, 2020, 2021)
28. Scientific Reports (2015, 2021)
29. Annuals of Sports Medicine and Research (2015)
30. PLOS ONE (2015, 2016, 2017, 2019, 2020, 2022)
31. Applied Physiology, Nutrition, and Metabolism (2015, 2018, 2019)
32. Nutritional Research (2015)
33. Journal of Neurophysiology (2016)
34. Journal of Electromyography and Kinesiology (2016, 2017)
35. American Journal of Hypertension (2016)
36. Neuroscience Letters (2016)
37. Sports Medicine and Rehabilitation Journal (2016)
38. Physiological Reports (2016)
39. Journal of Physiology (London) (2016, 2019, 2020)
40. Journal of Aging and Physical Activity (2016)
41. International Journal of Sport and Exercise Medicine (2017)
42. International Journal of Cardiology (2017)
43. Games of Health Journal (2017)
44. Drugs and Aging (2017)
45. International Journal of Sports Medicine (2017)
46. Physical Therapy Reviews (2017)
47. Pain Medicine (2017, 2018, 2019)
48. Scandinavian Journal of Medicine and Science in Sports (2018, 2022)
49. Biology of Sport (2018)
50. Journal of Magnetic Resonance Imaging (2018)
51. Journal of Pain Research (2018, 2019)
52. Meta Gene (2018)
53. International Journal of Sports Physiology and Performance (2018, 2019)
54. Experimental Physiology (2018, 2019)
55. Frontiers in Physiology (2019)
56. Physiology and Behavior (2019, 2020, 2021)
57. Nutrition, Metabolism and Cardiovascular Disease (2020)
58. Pain (2020)
59. Brazilian Journal of Anesthesiologia (2020, 2021)
60. Pain Reports (2021, 2022)
61. Journal of the American College of Nutrition (2021)
62. Life Sciences (2021)
63. Sports Medicine and Health (2022)
64. Circulation (2022)
65. Experimental Brain Research (2022)
66. Sage Open Medicine (2022)

Academic Accreditation

- Clayton State University Health and Fitness Management Academic Advisory Board– COAES Accreditation Board (2009-2011)

University Service (University of Oklahoma)

- Norman campus ACSM Exercise is Medicine Chair 2020-present
- HES Graduate Committee 2020-present
- HES Search Committee Co-Chair: Exercise Physiology Position 2019-present
- Cognitive Behavioral Neuroscience Program Steering Committee 2018-present
- Graduate Dean’s Task Force on Mentorship of Graduate Students 2018-2019
- College of Arts and Sciences Academic Appeals Panel 2015-present
- HES Oversight Committee Member 2018-present
- HES Search Committee Member: Exercise Physiology Position 2016, 2017
- HES Search Committee Member: Health Promotion Position 2016, 2019
- HES Undergraduate Committee (Chair 2014-2020) 2013-2020
- HES Research/Planning Committee 2013-2017

University Service (University of Mississippi)

- Graduate Student Council Research Forum Judge 2013
- University Travel Grant Committee 2012-present
- Search Committee Member: Exercise Science Instructor 2011-2012
- Ad Hoc Committee Member: Comprehensive Exam Review 2011-2012
- Co-Advisor to Exercise Science Club 2011-present

University Service (Georgia College and State University)

- Search Committee Chair: Exercise Science Faculty Position 2010
- Co-Advisor to Exercise Science Club 2008 - 2011
- Department of Kinesiology: Evaluation and Assessment Committee 2008 - 2011
- College of Health Sciences: Bylaws Committee (Chair 2010-2011) 2008 - 2011
- Georgia College and State University: Institutional Review Board 2009 - 2011
- GCSU President’s Scholars Competition Interviewer 2008 - 2011

Mentoring of Student Research

Doctoral Committee Membership (University of Oklahoma)

- Robby Hight (Chair)
- Brian Pribble (Member)
- Grant Chesbro (Member)
- Madison Johnston (Member)

- Jessica Peterson (Chair, Graduated May 2021) “An Experimental Evaluation of Central Pain Processing Following COVID-19 Infection.”

- Aaron Heishman (Member; Graduated May 2020) “Acute Neuromuscular and Endocrine Responses Following High and Low External Training Loads in Collegiate Basketball Players”
- Samuel Buchanan (Member; Graduated August 2019) “Alterations of C-miRNA Expression from Whole-Body Vibration and Resistance Exercise in Postmenopausal Women”
- Brandon Stone (Co-Chair; Graduated August 2019) “Physiological Stress Resilience: Optimizing Cognitive Performance in Reserved Officers Training Corps during Exercise”
- Joshua Carr (Member; Graduated May 2019) “An Examination of the Cross-Over Effects of Fatigue with and without Mirror Visual Feedback”
- Breanne Baker (Member; Graduated August 2018) “A Longitudinal Assessment of Biomarkers, Muscular Performance, and Aerobic Capacity in College-Aged ROTC Members”
- John Farrell (Member; Graduated May 2018) “Evaluation of Asymmetry in Power Contribution and Muscle Activation during Cycling in Individuals with Multiple Sclerosis.”
- David Lantis (Member; Graduated August 2017) “Bilateral Fatigue of the Anterior Tibialis in Individuals with Multiple Sclerosis.”
- Greg Cantrell (Member; Graduated August 2017) “Relationship Between Soleus H-Reflex and Balance Metrics in People with Multiple Sclerosis.”
- Nathan Wages (Member; Graduated May 2017) “An Examination of Eccentric Versus Concentric Unilateral Resistance Exercise on Ipsilateral and Contralateral Motor Control Strategies Across an 8 Week Training Period.”
- Charity Cavazos (Member; Graduated May 2016) “A Cross Validation of the Effects of Leg Size, Limb Composition, and Blood Pressure on Arterial Occlusion in Women Aged 20 to 30 Years.”

Doctoral Committee Membership (University of Mississippi)

- Nicole Dabbs (Member; Graduated: August 2013) “The effects of whole body vibration on muscle recovery and performance.”

Masters Thesis Committee Membership (University of Oklahoma)

- Jacob Matney (Member; Expected Graduation May 2022)
- Bushra Salous (Member; Expected Graduation May 2022)

- Blake Buchman (Member; Graduated May 2022) “NIL and the Effect of Corporate Density on College Football Recruiting”
- Ryann Shepherd (Chair; Graduated May 2022) “The Effects of Training Status and Recovery Time on the Reconstitution of Impulse Above Electrically Stimulated Critical Torque”
- Maegan Brewer (Member; Graduated December 2021) “Non-Invasive Load Monitoring in Female Division I Collegiate Gymnastics”
- Ashley Venturini (Chair; Graduated May 2021) “Examining the Relationship among Weight Status, Physical Activity, and Pain Affecting Activity in a Nationally Representative Sample”
- Carianne Cornell (Member; Graduated May 2021) “An Evaluation of the Advanced Maternal Age Experience and How It Differs from Optimal Maternal Age”
- Erin Psajdl (Member; Graduated May 2021) “Fourth Down’s Critical Role in a Winning Strategy for American Football Games”
- Megan SaxvanderWeyden (Member; Graduated May 2021) “The Role of Sex, Military Science Class, and Anthropometrics on Performance of the Army Combat Fitness Test (ACFT) in Reserve Officers’ Training Corps (ROTC) Cadets”
- Samuel Lupton (Member; Graduated August 2021) “The Relationship Between NCAA College Basketball Recruiting Strategies and Team Success”
- Rebecca Bertholf (Member; Graduated August 2021) “Determinants of Self-Reported Fatigue with Aging”
- Morgan Delp (Member; Graduated May 2020) “Effects of Menstrual Cycle Phase on Aerobic Parameters during a Graded-Exercise Test”
- Angelina Curiel (Chair; Graduated August 2019) “The Relationship Between Oxygen Saturation and Muscle Fatigue in Men and Women”
- Andrew Gillingham (Member; Graduated August 2019) “The Relationship Between Batters’ Eyes Characteristics, the Hitting Process, and Hit Quality Among Major League Baseball Players”
- Michelle Nguyen (Member; Graduated August 2019) “Comparison of Bone, Fat, and Muscle Characteristics between Combined Oral Contraceptive Users and Non-Users”
- Ashley Fox (Member; Graduated August 2019) “Menstrual Cycle Changes in Quadriceps Muscular Architecture and Other Functional Parameters in College-Aged Females Compared to Males”

- Joel Prowting (Member; Graduated May 2019) “Hydrolyzed Collagen Peptides Protect Against Jump Performance Decrements Following High-Force Eccentric Exercise in Resistance Trained Males”
- Cameron Lohman (Chair; Graduated August 2018) “Relationship among Site Specific Fat, Lean Mass, and Pressure Pain Sensitivity.”
- Nick Hodgson (Member; Graduated August 2018) “The Effects of Exercise-Induced Muscle Damage in Trained Females following Repeated Sprint Activity.”
- Jarrod Blumer (Member; Graduated May 2018) “Pilot Evaluation of the Weighted Offensive Productivity Rating in Hockey Using Longitudinal Data and Logistic Regression.”]
- Darshit Patel (Chair; Graduated May 2018) “Time Course of Change in Critical Torque and Impulse Above Critical Torque following Exercise-Induced Muscle Damage.”
- Alwyn Quarshie (Chair; Graduated May 2018) “The Effects of Transcutaneous Electrical Nerve Stimulation and Isometric Exercise on Pain Perception Prior to and Following an Acute Bout of Exercise.”
- Kody Haskins (Chair; Graduated May 2018) “The Effects of a Carbohydrate Mouth Rinse on Central and Peripheral Fatigue Following High and Low Intensity Fatiguing Exercise.”
- Daniel Blackwood (Member; Graduated May 2018) “Assessment of the Bilateral Relationship between Muscle Pennation and Force Production in the Quadriceps Femoris.”
- Nicole McGuire (Member; Graduated May 2018) “Recovery Patterns from High-Intensity Interval Resistance Exercise in Male and Female ROTC Cadets.”
- Bianca Alvarenga Rambo Galletti (Member; Graduated May 2018) “Physiological Responses to a Single Bout of Resistance Exercise: Practical vs Controlled Blood Flow Restriction.”
- Brian Rollberg (Member; Graduated December 2017) “Developing and Testing an Ecologically Valid Fitness Test in Suburban SWAT Operators.”
- Hayden Tharp (Member; Graduated May 2017) “The Effects of Muscle Length on Force Steadiness and EMG Responses Following a Fatiguing Protocol.”
- Michael Walters (Member; Graduated May 2017) “Bison Hides and Biomechanics: Experimental Bioarchaeology of Wichita Scraper Technologies.”

- Natalie Janzen (Chair; Graduated May 2017) “Estimation of Critical Torque Using Neuromuscular Electrical Stimulation of the Quadriceps in Humans.”
- Daniel Schubert (Chair; Graduated May 2017) “Preferred Versus Novel Exercise Modalities on Endogenous Pain Inhibition Following Exercise.”
- Garret Wardlow (Chair; Graduated May 2017) “Effects of Postprandial Hypertriglyceridemia on Ischemic-Reperfusion Injury.”
- Macarena Ramos (Member; Graduated May 2017) “Impact of Acute Increases in Retrograde Shear on Microvascular Function.”
- Brian Pribble (Member; Graduated August 2017) “An Evaluation of the Foot Tapping Test (FTT) in a Healthy Population
- Patriece Branch (Chair; Graduated December 2016) “Effect of an Acute High Fat Meal in Healthy Individuals: The Exercise Pressor Response”
- Marcin Szczyglowski (Chair; Graduated: May 2016) “Effects of Exercise-Induced Muscle Damage on Critical Torque and Mitochondrial Function”
- Robby Hight (Chair; Graduated: August 2015) “Motor-Unit Activity Following a Repeated Bout of Eccentric Exercise”
- Alex Gonglach (Chair; Graduated: May 2015) “The Effects of Caffeine on a Fixed Pain Intensity Time-Trial”
- Jamie Huber (Chair; Graduated: May 2015) “The Relationship Between Physical Activity Levels and Activity Type and Thermal Pain Sensitivity”
- Landon Reiter (Member; Graduated: May 2015) “Effects of chemotherapy and radiation therapy on endothelial-dependent vasodilation and circulating endothelial microparticles”
- Kaylin Didier (Member; Graduated: May 2015) “Effects of Chemotherapy and Radition Exposure on Brachial Artery Blood Flow During Dynamic Handgrip Exercise”
- Austin Ederer (Member; Graduated: May 2015) “Alterations in Endothelial Function and Fractional O₂ Extraction in Long-Term Cancer Survivors Treated with Chemotherapy and Radition”
- Grant Mouser (Member; Graduated: May 2015) “The Effects of Differing Levels of Blood Flow Restriction on Brachial Blood Flow”

- Monica Barton (Member; Graduated: May 2015) “Pulmonary Oxygen Uptake Kinetics in Individuals with Multiple Sclerosis during Single Leg Cycling”
- Shelby Shipman (Member; Graduated: May 2015) “Bilateral Differences in Critical Power in Individuals with Multiple Sclerosis”

Masters Thesis Committee Membership (University of Mississippi)

- Brandon Tynes (Chair; Graduated: May 2012) “The Influence of Localized Inflammation on Pressure Pain Threshold Following Fatiguing Exercise”

Masters Thesis Committee Membership (Georgia College and State University)

- Justin Pickham (Member; Graduated: May 2013) “The Effects of Rope Diameter on Anaerobic Metabolism During Battling Ropes Training”
- Andrew Hutchins (Member; Graduated: December 2012) “Excess Post-Exercise Oxygen Consumption and Peak Blood Lactate Following a Maximal Bout with the Battling Ropes Power Wave”
- Elizabeth Hathaway (Member; Graduated May 2012) “Assessing Physical Activity and Fatigue Levels in Cancer Survivors”
- Kori Pickowitz (Chair; Graduated: 2011) “The Reliability of Pressure Pain Threshold and Pain Tolerance in College Aged Males”
- Carla Graves (Member; Graduated: 2011) “The Effects of Manual Stretching and Foam Roll Myofascial Release Techniques on Hamstring Flexibility”
- Whitney Bailey (Member; Graduated: 2011) “Prevalence of Eating Disorders Among Division II Female College Athletes”
- Richard Dobson (Chair; Graduated: 2010) “The Relationship Among Running Economy, Lactate Threshold and Distance Running Performance”
- Clayton Kuklick (Chair; Graduated: 2010) “Effects of 4 Weeks of Training with the Battling Ropes Training System on Peak Oxygen Consumption and Pitch Velocity”
- Brian Sibenaller (Member; Graduated: 2010) “Relationship Between Balance and Agility in College Athletes”
- Joseph Wilson (Member; Graduated: 2009) “Functional Movement Screening in College Athletes”
- Christopher Bailey (Member; Graduated: 2009) “Physiological Responses to the Battling Ropes Training System”

Supervision of Masters Research Projects

- Josh Wren (Fall 2014 - Spring 2015)
- Beau Brehm (Fall 2014 - Spring 2015)
- Ben Angle (Summer 2013)
- Kristin Casagrand (Spring 2013)
- Elizabeth Mumaw (Spring 2012)

Supervision of Practicum/Independent Study Students

- Claire Nagel (Spring 2022)
- Parmida Gebrieli (Spring 2018)
- Allison Williams (Spring 2018)
- Taylor Smittle (Spring 2018)
- Ashley Dioguardi (Fall 2017; Spring 2018)
- Lindsey Lee (Spring 2017)
- Jaquelin Van Horn (Fall 2016; Spring 2017)
- Brooke Wiederkehr (Fall 2015)
- Kristen Faucett (Fall 2015)
- Olivia Raiber (Fall 2015)
- Dallas Dixon (Spring 2013)
- Emily Peters (Spring 2013)
- Kristin Casagrand (Fall 2012; Spring 2013)
- Robert Vondy (Fall 2012; Spring 2013)
- Ben Angle (Summer 2012)
- Alex Gonglach (Summer 2012)
- Ashleigh Elkins (Spring 2012)
- Douglass Pearson (Spring 2012)
- Sam Wilson (Spring 2012)
- Jeremy Daniel (Spring 2012)
- Alex Underwood (Spring 2012)
- Alex Gonglach (Fall-Spring 2011-2012)
- Katie Rich (Spring 2011)
- Josh Dunn (Spring 2011)
- Julianna Stradely (Spring 2011)
- Jeff Salatino (Spring 2010)

Supervision of Undergraduate Honors Projects

- Cecil Ehirindu (Spring 2022); Role: Chair
- Claire Nagel (Fall 2021); Role: Chair
- Maddie Allen (Summer 2021); Role: Chair
- Katelyn Robnett (Fall 2018); Role: Chair
- Jacob Belcher (Spring 2018); Role: Chair
- Claire Mitchel (Fall 2017); Role: Chair
- Jaisa Evanoff (Spring 2017); Role: Chair
- Kaitlin Lutz (Fall 2016); Role: Chair
- Emily Kromann (Spring 2016); Role: Chair
- Stephanie Rehm (Spring 2015); Role: Chair

- Elaine Griffeth (Spring 2015); Role: Chair
- Clara Tang (Fall 2014); Role: Chair
- Taylor Renbarger (Fall 2014); Role: Chair
- Luke Burnett (Spring-Summer 2013); Role: Committee Chair
- Justin Hill (Spring-Summer 2013); Role: Committee Chair
- Kacie Childers (Spring 2012); Role: Committee Member
- Julia Borland (Fall-Spring 2010-2011); Role: Chair
- Jessica Sethman (Fall-Spring 2010-2011); Role: Chair
- Kristen Vick (Fall-Spring 2009-2012); Role: Chair

Supervision of OU McNair Scholars

- Sha-Ree Wrice (Fall 2015)
- Cecil Ehirindu (Fall 2021-present)

Supervision of OU FYRE (First Year Research Experience) Students

- Aubrey Gibson (Spring 2020)
- Nathan Veal (Spring 2021)
- Donna Vaghefikia (Spring 2021)

Publications

Articles in Review

1. Peterson JA, Lohman C, Larson RD, Bembem MG, **Black CD**. “Lean Mass is Associated with, But Does Not Mediate Sex Differences in Pressure Pain Sensitivity in Healthy Adults.” (Submitted to *Biology of Sex Differences* on July 7, 2022).
2. Chesbro GA, Peterson, JA, Larson RD, and **Black, CD**. “A Nonlinear Analysis of Nociceptive Flexion Reflex Changes Before and After Acute Inflammation.” (Submitted to *Medical Engineering and Physics*, June 29, 2022).
3. Buchanan, S., Miller, R.M., Nguyen, M.S., **Black, C.D.**, Kellawan, M., Bembem, M.G., Bembem, D.A. “Circulating MicroRNA Responses to Acute Whole-Body Vibration and Resistance Exercise in Postmenopausal Women.” (Submitted to *Bone* on Oct. 6, 2021)
4. Farrell, J.W., Shipman, S., **Black, C.D.**, Ade, C.J., and Larson, R.D., “Assessing Asymmetry in Exercise Intensity Domains between Lower Limbs in Persons with Multiple Sclerosis: A Pilot Study” (Submitted to *Symmetry* on Oct. 4, 2021)
5. Lantis, D.J, Cantell, G.S., Bembem, D.A., **Black, C.D.**, Fjeldstad, C., Larson, D. J., Pardo, G., Larson, R.D., “Ankle Dorsiflexion asymmetry and the relationship with walking performance in people with multiple sclerosis.” *Disability and Rehabilitation* (Submitted on Aug 28, 2020).

Articles in Press

1. Peterson JA, Bembem MG, Larson RD, Pereira H, Crowson, HM, and **Black CD**. “Symptomatic but not Asymptomatic COVID-19 Impairs Conditioned Pain Modulation in Young Adults. *J of Pain* (Accepted on July, 7, 2022).
2. Peterson JA, Lohman C, Larson RD, Bembem MG, **Black CD**. “Body Composition does not influence Conditioned Pain Modulation and Exercise Induced Hyperalgesia in Healthy Males and Females.” *Eur J Pain*. 2022 Jul 8. doi: 10.1002/ejp.2005. Online ahead of print. PMID: 35802068
3. Baker BS, Buchanan SR, Black CD, Bembem MG, Bembem DA. “Bone, Biomarker, Body Composition, and Performance Responses to 8 Weeks of ROTC Training.” *J Athl Train*. 2021 Jul 19;. doi: 10.4085/1062-6050-0634.20. [Epub ahead of print] PubMed PMID: 34279654.

Articles in Peer-Reviewed Journals

1. Chesbo, G., Peterson, J.A., **Black, C.D.**, and Larson, R.D. “Self-reported physical activity levels and Psychological Mood under Social Distancing during the COVID-19 Pandemic.” *Int J Exerc Sci* 15(5): 313-329, 2022
2. **Black, C.D.**, Haskins, K., Bembem, M.G., and Larson, R.D. “Carbohydrate Mouth Rinsing Does Not Alter Central or Peripheral Fatigue Following High- and Low-Intensity Exercise in Men.” *J Strength Cond Res* 2022 Jan 1;36(1):142-148. doi: 10.1519/JSC.0000000000004162.
3. Pribble BA, **Black CD**, Larson DJ, Larson RD. An evaluation of the reliability of the foot-tapping test in a healthy sample Foot (Edinb). 2021 Sep;48:101851. doi: 10.1016/j.foot.2021.101851. Epub 2021 Jul 12
4. Sax van der Weyden M, **Black CD**, Larson D, Rollberg B, Campbell JA. Development of a Fitness Test Battery for Special Weapons and Tactics (SWAT) Operators—A Pilot Study. *International Journal of Environmental Research and Public Health*. 2021 July; 18(15):7992. doi: <https://doi.org/10.3390/ijerph18157992>.
5. Carr JC, Bembem MG, **Black CD**, Ye X, DeFreitas JM. “Bilateral deficit in strength but not rapid force during maximal handgrip contractions.” *Eur J Sport Sci*. 2021 Jun;21(6):836-843. doi: 10.1080/17461391.2020.1800104. Online ahead of print. PMID: 32706295
6. Peterson JA, Chesbro G, Larson R, Larson D, **Black CD**. Short-Term Analysis (8 Weeks) of Social Distancing and Isolation on Mental Health and Physical Activity Behavior During COVID-19. *Front Psychol*. 2021;12:652086. doi: 10.3389/fpsyg.2021.652086. eCollection 2021. PubMed PMID: 33815233; PubMed Central PMCID: PMC8012844
7. Miller RM, Galletti BAR, Koziol KJ, Freitas EDS, Heishman AD, **Black CD**, Larson DJ, Bembem DA, Bembem MG. Perceptual responses: Clinical versus practical blood flow

restriction resistance exercise. *Physiol Behav.* 2020 Dec 1;227:113137. doi: 10.1016/j.physbeh.2020

8. Prowting JL, Bemben D, **Black CD**, Day EA, Campbell JA. Effects of Collagen Peptides on Recovery Following Eccentric Exercise in Resistance-Trained Males-A Pilot Study. *Int J Sport Nutr Exerc Metab.* 2021 Jan 1;31 (1):32-39. doi: 10.1123/ijsnem.2020-0149
9. Freitas EDS, Galletti BRA, Koziol KJ, Miller RM, Heishman AD, **Black CD**, Bemben D, Bemben MG. The Acute Physiological Responses to Traditional vs. Practical Blood Flow Restriction Resistance Exercise in Untrained Men and Women. *Front Physiol.* 2020;11:577224. doi: 10.3389/fphys.2020.577224. eCollection 2020.
10. Cantrell GS, Lantis DJ, Bemben MG, **Black, CD**, Larson DJ, Pardo G, Fjeldstad-Pardo C, Larson RD. "Relationship between soleus H-reflex asymmetry and postural control in multiple sclerosis." *Disabil Rehabil.* 2020 Jun 11:1-7. doi: 10.1080/09638288.2020.1771779. Online ahead of print. PMID: 32525405
11. Farrell, J.W., Bemben, D.A., **Black, C.D.**, Larson, D.J., Pardo, G., Fjeldstad-Pardo, C., and Larson, R.D. "Evaluation of Power Production Asymmetry during Cycling in Persons with Multiple Sclerosis." *Int. J. Environ. Res. Public Health* 2019, 16, 3445; doi:10.3390/ijerph16183445.
12. Peterson, J.A., Schubert, D.J., Campbell, J.A., Bemben, M.G., and **Black, C.D.** "Endogenous Pain Inhibitory Function: Endurance Trained Athletes vs. Active Controls." *Pain Med.* 2019 Mar 19. doi: 10.1093/pm/pnz014.
13. Larson, R.D., Barton, M. Farrell, J.W., Cantrell, G.S., Lantis, D. J., **Black, C.D.**, Ade, C.J. "Evaluation of oxygen uptake kinetic asymmetries in patients with multiple sclerosis: A pilot study." *Int J Kin Sport Studies.* 2018 6(4): 21-24.
14. **Black, C.D.**, Schubert, D.J., Szczyglowski, M. K., and Wren, J.D. "Carbohydrate Mouth Rinsing Does Not Enhance Maximal Strength or Motor-Unit Recruitment Following Fatiguing Exercise". *J Strength Cond Res.* 2018 Sept; 32(9): 2466-2473. doi: 10.1519/JSC.0000000000002444.
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16. Janzen, N.R., Hight, R.E., Patel, D.S., Campbell, J.A., Larson, R.D., and **Black, C.D.** "Estimation of Critical End-Test Torque Using Neuromuscular Electrical Stimulation of the Quadriceps in Humans". *Eur J Appl Physiol.* 2018 Jul;118(7):1407-1414. doi: 10.1007/s00421-018-3872-5. [Epub ahead of print]

17. Mouser, J.G., Ade, C.J., **Black, C.D.**, Bemben, D.A., and Bemben, M.G. “Brachial Blood Flow under Relative Levels of Blood Flow Restriction is decreased in a Non-linear Fashion” *Clin Physiol Funct Imaging*. 2018 May;38(3):425-430.
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19. Hight, R., Beck, T.W., Bemben, D.A., and **Black, C.D.** “Adaptations in Antagonist Co-Activation: Role in the Repeated-Bout Effect”. *PLoS One*. 2017 Dec 7; 12(12).
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21. **Black, C.D.**, Huber, J.K., Ellingson, L., Ade, C.J., Taylor, E.L., Griffeth, E.M. Jansen, N.R., and Sutterfield, S.L. “Relationship Among Activity Levels and Activity Type on Pain Sensitivity in College-Aged Females.” *Med Sci Sports Exerc*. 2017 May; 49(5):975-982
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23. **Black, C.D.**, Tynes, B.K., Gonglach, A.R., and Waddell, D.E. “Local and Generalized Endogenous Pain Modulation in Healthy Men: Effects of Exercise and Exercise-Induced Muscle Damage.” *Pain Med*. 2016 Dec;17(12):2422-2433.
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33. Kuklick, C.R., Martino, M.A., and **Black, C.D.** “Throwing Velocity and Stamina in Baseball Pitchers as a Function of Training Methods.” *J of Aus Strength and Cond;* 2013 June; 21(2): 10-15.
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41. Stoner, L., Sabatier, M.J., **Black, C.D.**, and McCully, K.K. "Occasional Cigarette Smoking Chronically Affects Arterial Function" *Ultrasound Med Bio*. 2008 Sept 15.
42. **Black, C.D.** and McCully, K.K. "Muscle Injury after Repeated-Bouts of Voluntary and Electrically Stimulated Exercise." *Med Sci Sports Exerc*. 2008 Sept; 40 (9): 1605-1615
43. **Black, C.D.** and McCully, K.K. "Force Per Active Area and Muscle Injury During Electrically Stimulated Contractions." *Med Sci Sports Exerc*. 2008 Sept; 40 (9):1596-1604
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46. Kendall, T., **Black, C.D.**, Elder, C.P., Gorgey, A., and Dudley, G.A. "Determining the extent of neural activation during maximal effort." *Med Sci Sports Exerc*. 2006 Aug; 38(8):1470-5.
47. **Black, C.D.** and McCully K.K. "Time course of exercise induced alterations in daily activity in chronic fatigue syndrome." *Dynamic Medicine*. 2005 Oct 28;4:10.
48. Sabatier, M.J., Stoner, L., Mahoney, E.T., **Black, C.**, Elder, C., Dudley, G.A., and McCully, K.K. "Electrically-stimulated resistance training in SCI individuals increases muscle fatigue resistance but not femoral artery size or blood flow." *Spinal Cord*. 2005 Sept 13, 1-7
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51. Castellano, V., Olive, J.L., Stoner, L., **Black, C.**, and McCully, K.K. "Blood flow response to a postural challenge in older men and women." *Dynamic Medicine*. 2004 Jan 16;3(1):1
52. **Black, C.D.**, Vickerson, B., and McCully, K.K. "Noninvasive assessment of vascular function in the posterior tibial artery of healthy humans." *Dynamic Medicine*. 2003 Feb 11;2(1):1.

Textbook Chapters

1. "Muscle Pain During and Following Exercise." *Oxford Handbook of Exercise Psychology*. Editor: Edmund Acevedo. 2012
2. "Characteristics, Mechanisms, and Health Implications of Exercise-Induced Hypoalgesia." Co-authored with Laura Ellingson. *Oxford Encyclopedia of Psychology*. Editor: Edmund Acevedo. 2019 DOI: 10.1093/acrefore/9780190236557.013.207

Manuscripts in Non Peer-Reviewed Journals

1. **Black, C.D.** and O'Connor, P.J. "Ginger: A Spice That Can Reign in Pain." *Sports, Cardiovascular, and Wellness Nutrition Pulse*. Spring 2010, 29(2): 1-4
2. McCully, K.K. and **Black, C.D.** "Measuring an activity limit in CFS patients." *The CFS Research Review*. Summer 2005 6:(2), 12-15

Invited Professional Presentations

1. **Black, C.D.** (2020) "Afferent Signaling and Endurance Exercise Performance: Friend or Foe?" American College of Sports Medicine Brown Bag in Science Series
2. **Black, C.D.** (2019) "What I Wish I Knew Before My First Job in Academia." Central State ACSM Annual Meeting (Invited Panel Discussion)
3. **Black, C.D.** (2016) "The Influence of Exercise-Induced Muscle Damage on Endurance Exercise Performance.", Central State ACSM Annual Meeting (Invited Oral Symposium)
4. **Black, C.D.** (2016) "Exercise-Induced Hypoalgesia in Healthy Populations", ACSM Annual Meeting (Invited Oral Symposium)
5. **Black, C.D.** (2015) "The Influence of Pain and Muscle Damage on Neuromuscular Function and Exercise Performance"; Emory Rehabilitation Hospital Grand Rounds Lecture (Invited Lecture)

6. **Black, C.D.** (2009) “The Effects of Ginger on Muscle Pain, Inflammation and Function” ACSM Annual Meeting. (Invited Oral Symposium)
7. **Black, C.D.** (2008) “Overtraining: Causes, Monitoring, and Training Adaptations.” Southeast Regional National Strength and Conditioning Association Clinic (Invited Oral Tutorial).
8. **Black, C.D.** (2006). “Skeletal muscle, electrical stimulation, and rehabilitation from spinal cord injury.” UGA Biomedical Health Science Institute Fall Retreat (Invited Oral Presentation).
9. **Black, C.D.** (2006) “Electrical Stimulation and Skeletal Muscle Injury.” Shepherd Center “Cookies and Research” Day (Invited Oral Presentation).

Reviewed Abstract Presentations

1. Buchanan, S.R., Nguyen, H.V., Miller, R., Kellawan, J.M., Black, C., Bembem, M., and Bembem, D. (2020). C-mirna Expression Responses To Whole-body Vibration And Resistance Exercise In Postmenopausal Women: 1826 Board# 6 May 28 1: 30 PM-3: 30 PM. *Medicine & Science in Sports & Exercise* 52: 491-492.
2. Chesbro, G.A., Pribble, B.A., Fox, A.N., Larson, D.J., Black, C.D., and Larson, R.D. (2020). Assessment Of Changes In Muscle Glycogen Content Across The Menstrual Cycle: 343 Board# 159 May 27 10: 30 AM-12: 00 PM. *Medicine & Science in Sports & Exercise* 52: 80-81.
3. Heishman, A., Miller, R., Freitas, E., Brown, B., Peak, K., Black, C., and Bembem, M. (2020). The Effects Of Practice On Maximal Force And Low-Frequency Fatigue In Collegiate Basketball Players: 1341 May 28 10: 30 AM-10: 45 AM. *Medicine & Science in Sports & Exercise* 52: 353.
4. Hight, R.E., Peterson, J.A., Lohman, C., Bembem, M.G., Larson, R.D., and Black, C.D. (2020). No Sex Differences In Conditioned Pain Modulation Or Exercise-induced Hypoalgesia Following Lower Body Isometric Exercise: 2339 Board# 258 May 28 2: 00 PM-3: 30 PM. *Medicine & Science in Sports & Exercise* 52: 630.
5. Peterson, J., Lohman, C., Bembem, M., Larson, R., and Black, C. (2020). SEX DIFFERENCES IN PAIN SENSITIVITY ARE ELIMINATED WHEN NORMALIZED TO LIMB SPECIFIC LEAN MASS: 1851 Board# 6 May 28 1: 30 PM-3: 30 PM. *Medicine & Science in Sports & Exercise* 52: 499.
6. Pribble, B.A., Farrell III, J.W., Cantrell, G.S., Lantis, D.J., Bembem, D.A., Black, C.D., Larson, D.J., and Larson, R.D. (2020). Body Composition In Persons With Multiple Sclerosis Vs. Healthy Controls: 1756 Board# 350 May 28 9: 30 AM-11: 00 AM. *Medicine & Science in Sports & Exercise* 52: 476.

7. Venturini, A.M., Peterson, J.A., Lohman, C., Bemben, M.G., Larson, R.D., and Black, C.D. (2020). Exercise-induced Hypoalgesia Differ At Sites Local And Remote To The Exercising Muscle Group: 2344 Board# 263 May 28 2: 00 PM-3: 30 PM. *Medicine & Science in Sports & Exercise* 52: 631.
8. Baker, B., Buchanan, S., Baldares, A., Nguyen, H., **Black, C. D.**, Bemben, M. G., Bemben, D. A. (2019). A longitudinal assessment of biomarkers, skeletal changes, and body composition in college ROTC members. Orthopedic Research Society (Published)
9. Pribble, B. A., Farrell, III, J. W., Larson, D. J., **Black, C. D.**, Bemben, D. A., Larson, R. D. (2019). Assessment of Bilateral Asymmetry in Cycling Peak Torque in Multiple Sclerosis Patients vs. Controls: 3180: Board\# 226 May 31 3: 30 PM-5: 00 PM (6th ed., vol. 51, pp. 883). LWW. (Published)
10. Fox, A. N., Blackwood, D. J., Larson, D. J., **Black, C. D.**, Larson, R. D. (2019). Assessment Of Quadriceps Femoris Pennation Angle And Force Production Asymmetry In College-Aged Males: 324: Board\# 162 May 29 11: 00 AM-12: 30 PM (6th ed., vol. 51, pp. 81). LWW. (Published)
11. Prowting, J., Hodgson, N., Larson, R. D., **Black, C. D.**, Campbell, J. A. (2019). Can a Field Based Neuromuscular Test Determine Readiness to Train in Female Team Sport Athletes?: 3452: Board\# 140 June 1 9: 30 AM-11: 00 AM (6th ed., vol. 51, pp. 948). LWW. (Published)
12. Owens, C., Lantis, D., Cantrell, G., Bemben, D. A., **Black, C. D.**, Larson, D. J., Larson, R. D. (2019). Effects Of Fatigue On Isometric And Isokinetic Dorsiflexion Strength Asymmetry In Multiple Sclerosis: 3186: Board\# 232 May 31 3: 30 PM-5: 00 PM (6th ed., vol. 51, pp. 885). LWW. (Published)
13. Warrior, B., Blackwood, D. J., Larson, D. J., **Black, C. D.**, Larson, R. D. (2019). Pennation Angle of the Quadriceps Femoris Muscles in Resistance Trained Males vs. Non-Resistance Trained Males: 326: Board\# 164 May 29 11: 00 AM-12: 30 PM (6th ed., vol. 51, pp. 81). LWW. (Published)
14. Campbell, J. A., Larson, R. D., **Black, C. D.**, McGuire, K. (2019). PERFORMANCE RECOVERY IN RESERVE OFFICER TRAINING CORPS (ROTC) CADETS FOLLOWING A BOUT OF HIGH-INTENSITY EXERCISE. *International Journal of Exercise Science: Conference Proceedings* (6th ed., vol. 11, pp. 13). (Published)
15. Delp, M., Pribble, B., Larson, D. J., **Black, C. D.**, Larson, R. D. (2019). Recommendations For The Evaluation Of The Foot Tapping Test (ftt) In A Healthy Population: 1295 Board\# 57 May 30 10: 30 AM-12: 00 PM (6th ed., vol. 51, pp. 339--340). *Medicine & Science in Sports & Exercise* (Published)
16. Peterson, J., Lohman, C., Bemben, M. G., Larson, R. D., **Black, C. D.** (2019). Relationships among site specific fat, lean mass, and endogenous pain inhibitory function

(5th ed., vol. 51(Suppl), pp. S313). *Medicine and Science in Sports and Exercise* (Published)

17. Dioguardi, A., Peterson, J., Lohman, C., Bemben, M. G., Larson, R. D., **Black, C. D.** (2019). Relationships among site specific fat, lean mass, and pressure pain sensitivity (5th ed., vol. 51(Suppl), pp. s309). *Medicine and Science in Sports and Exercise* (Published)
18. Baker, B., Buchanan, S., Baldares, A., Nguyen, H., Combs, C., **Black, C. D.**, Bemben, M. G., Bemben, D. A. (2019). Six-month assessment of biomarkers, skeletal attributes, body composition, and performance in collegiate ROTC members (5th ed., vol. 51(Suppl), pp. S538). *Medicine and Science in Sports and Exercise* (Published)
19. Curiel, A., Haskins, K., Bemben, M. G., Larson, R. D., **Black, C. D.** (2019). The effects of a carbohydrate mouth rinse on central and peripheral fatigue following high and low intensity fatiguing exercise (5th ed., vol. 51(Suppl), pp. S300). *Medicine and Science in Sports and Exercise* (Published)
20. Lantis, D. J., Cantrell, G. S., Hintz, J. P., Owens, C. D., Bemben, D. A., **Black, C. D.**, Larson, D. J., Larson, R. D. (2019). The Effects of Fatigue on Peak Torque During Dorsiflexion Between Limbs in Multiple Sclerosis Patients: 3181: Board\# 227 May 31 3: 30 PM-5: 00 PM (6th ed., vol. 51, pp. 884). LWW. (Published)
21. Hight, R., Patel, D., Peterson, J., Lohman, C., Campbell, J. A., Bemben, M. G., **Black, C. D.** (2019). Time course of change in critical torque following exercise-induced muscle damage (5th ed., vol. 51(Suppl), pp. S710). *Medicine and Science in Sports and Exercise* (Published)
22. Campbell, J.A., Larson, R.D., **Black, C.D.**, and McGuire, K.N. (2018). *Performance Recovery in Reserve Officer Training Corps (ROTC) Cadets Following A Bout of High-Intensity Exercise*. Central States American College of Sports Medicine
23. Campbell, J.A., Larson, R.D., **Black, C.D.**, and McGuire, K.N. (2018). *Performance Recovery in Reserve Officer Training Corps (ROTC) Cadets Following A Bout of High-Intensity Exercise*. Central States American College of Sports Medicine
24. Peterson, J. A., Lohman, C., Bemben, M. G., Larson, R. D., **Black, C. D.** (2018). *Relationship Among Site Specific Fat, Lean Mass, and Pressure Pain Sensitivity*. Central States American College of Sports Medicine
25. Buchanan, S., Hight, R., Baker, B., **Black, C. D.**, Bemben, M. G., Bemben, D. A. (2018). *A comparison of pQCT versus B-ultrasound for lower leg muscle size assessment in young adults*. (5th ed., vol. 49, pp. S350). *Medicine and Science in Sports and Exercise*
26. Pribble, B. A., Larson, D. J., **Black, C. D.**, Blackwood, D. J., Rookard, J., Larson, R. D. (2018). *An Evaluation Of The Foot Tapping Test (ftt) In A Health Population: 2305*

Board # 141 June 1 11 (5S ed., vol. 50, pp. 566). *Medicine & Science in Sports & Exercise*.

27. Lantis, D. J., Cantrell, G. S., Hintz, J. P., Owens, C. D., Bemben, D. A., **Black, C. D.**, Larson, D. J., Larson, R. D. (2018). *Relationship Between Dorsiflexion Strength Asymmetry, Walking Performance, and Disability in Multiple Sclerosis Patients: 433 Board # 274 May 30 11* (5S ed., vol. 50, pp. 100). *Medicine & Science in Sports & Exercise*.
28. Cantrell, G., Lantis, D., Bemben, M. G., **Black, C. D.**, Larson, D. J., Larson, R. D. (2018). *Relationship between soleus H reflex and balance metrics in people with multiple sclerosis*. (5th ed., vol. 49, pp. 100). *Medicine and Science in Sports and Exercise*
29. Hight, R.E., Quarshie, A.T., Buchanan, S.R., Baker, B.S., Bemben, D.A., and **Black, C.D.** (2018) "Alterations in Spinal Excitability and Descending Drive following Cross-Education." American College of Sports Medicine Annual Meeting (poster)
30. Quarshie, A.T., Hight, R.E., Buchanan, S.R., Baker, B.S., Bemben, D.A., and **Black, C.D.** (2018) "The Effects of Cross-Education on Critical Torque and Time to Task Failure." American College of Sports Medicine Annual Meeting (poster)
31. Peterson, J.A., Schubert, D.J., Campbell, J.A., Bemben, M.G., and **Black, C.D.** (2018) "Preferred Versus Novel Exercise Modalities on Endogenous Pain Inhibition Following Exercise." American College of Sports Medicine Annual Meeting (oral presentation)
32. Patel, D.S., Janzen, N.R., Hight, R.E., and **Black, C.D.** (2018) "Heightened Sensory Signaling Does Not Alter Critical Torque." American College of Sports Medicine Annual Meeting (poster)
33. Lohman, C., Janzen, N.R., Patel, D.S., Campbell, J.A., Larson, R.D., and **Black, C.D.** (2018) "Stimulated, but Not Voluntary Critical Torque Differs between Men and Women." American College of Sports Medicine Annual Meeting (poster)
34. Curiel, A., Janzen, N.R., Campbell, J.A., Larson, R.D., and **Black, C.D.** (2018) "Peripheral Fatigue Mechanisms During Voluntary and Stimulated Assessments of Critical Torque." American College of Sports Medicine Annual Meeting (poster)
35. Hight, R.E., Quarshie, A.T., and **Black, C.D.** (2017) "Comparison between Voluntary Muscle Activation and Evoked V-Wave Responses As a Function of Torque". American College of Sports Medicine Annual Meeting (poster)
36. Quarshie, A.T., Hight, R.E., and **Black, C.D.** (2017) "Reliability of the V-Wave during Maximal Voluntary Plantar Flexion Exercise". American College of Sports Medicine Annual Meeting (poster)

37. Janzen, N.R. and **Black, C.D.** (2017) “Estimation of Critical Torque Using Neuromuscular Electrical Stimulation of the Quadriceps in Humans”. American College of Sports Medicine Annual Meeting (poster)
38. Szczyglowski, M., Patel, D.L., Ade, C.J., Campbell, J.A., and **Black, C.D.** (2017) “Exercise-induced muscle damage reduces critical torque and work above end test torque”. American College of Sports Medicine Annual Meeting (poster)
39. Peterson, J.A., Hight, R.E., Lohman, C., and **Black, C.D.** (2017) “Changes in motor unit recruitment and de-recruitment strategies are not associated with the repeated-bout effect”. American College of Sports Medicine Annual Meeting (poster)
40. Hight, R.E., Beck, T.W., Bemben, D.A., and **Black, C.D.** (2016) “Exercise-Induced Muscle Damage and the Repeated Bout Effect: Role of the Relationship Between Motor-Unit Firing Rate and Recruitment Threshold.” American College of Sports Medicine Annual Meeting (poster)
41. Schubert, D.J., Szczyglowski, M.K., Wren, J.D., and **Black, C.D.** (2016) “Carbohydrate Mouth Rinsing Does Not Alter Skeletal Muscle Contractile Properties Following Fatigue.” American College of Sports Medicine Annual Meeting (poster)
42. Szczyglowski, M.K., Wren, J.D., Schubert, D.J., and **Black, C.D.** (2016) “Carbohydrate Mouth Rinsing Does Not Enhance Maximal Strength or Motor-Unit Recruitment Following Fatigue.” American College of Sports Medicine Annual Meeting (poster)
43. Sutterfield, S.L., Huber, J.K., Janzen, N.R., and **Black, C.D.** (2016) “Activity Level and Type Does Not Influence Exercise-Induced Hypoalgesia to Pressure or Thermal Stimuli.” American College of Sports Medicine Annual Meeting (poster)
44. Janzen, N.R., Huber, J.K., Ade, C.J., Taylor, E.L., and **Black, C.D.** (2016) “The Relationship among Physical Activity Level, Activity Type, and Thermal Pain Sensitivity.” American College of Sports Medicine Annual Meeting (poster)
45. Janzen, N.R., Huber, J.K., Ade, C.J., Taylor, E.L., and **Black, C.D.** (2015) “The Relationship among Physical Activity Level, Activity Type, and Thermal Pain Sensitivity.” Central States American College of Sports Medicine Annual Meeting (poster)
46. Hight, R.E., Beck, T.W., Bemben, D.A., and **Black, C.D.** (2015) “Exercise-Induced Muscle Damage and the Repeated Bout Effect: Role of the Relationship Between Motor-Unit Firing Rate and Recruitment Threshold.” Central States American College of Sports Medicine Annual Meeting (poster)
47. Gonglach, A.R., Ade, C.J., Larson, R.D., Bemben, M.G., and **Black, C.D.** (2015) “Pain-Based Pacing and Cycling Time-Trial Performance: Effects of Caffeine Ingestion” American College of Sports Medicine Annual Meeting (poster)

48. Huber, J.K., Gonglach, A.R., and **Black, C.D.** (2015) “The Effects of Caffeine and Exercise on Thermal and Pressure Pain Thresholds” American College of Sports Medicine Annual Meeting (poster)
49. Szczygloski, M., Gonglach, A.R., Wren, J.D., and **Black, C.D.** (2015) “Consistency of the Effect of Caffeine on Strength and Motor-Unit Recruitment” American College of Sports Medicine Annual Meeting (poster)
50. Hight, R.E., Gonglach, A.R., and **Black, C.D.** (2015) “The Reliability of a Pain-Based Pacing Strategy during Cycle Ergometry” American College of Sports Medicine Annual Meeting (poster)
51. Dabbs, N.C., Chander, H., **Black, C.D.**, Loftin, M., Valliant, M., Brown, L.E., and Garner, J.C. (2015) “Effects of Whole Body Vibration on Voluntary Torque Following Exercise Induced Muscle Damage in Recreationally Trained Females” American College of Sports Medicine Annual Meeting (poster)
52. Wren, J.D., Gonglach, A.R., Dixon, D.J., Hill, J.T., and **Black, C.D.** (2014) “Caffeine Does Not Alter Muscle Pain and Perception of Effort During Heavy and Severe Cycling Exercise” American College of Sports Medicine Annual Meeting (poster)
53. Gonglach, A.R., Casagrand, K., Burnett, L, and **Black, C.D.** (2014) “Alterations in Cardiorespiratory and Perceptual Responses During Graded Submaximal Exercise Following Exercise-Induced Muscle Damage” American College of Sports Medicine Annual Meeting (poster)
54. Hight, R.E., Gonglach, A.R., Casagrand, K., Burnett, L, and **Black, C.D.** (2014) “Time-Course of Reduction in Peak Oxygen Consumption and Ventilatory Threshold Following Exercise-Induced Muscle Damage.” American College of Sports Medicine Annual Meeting (poster)
55. Dabbs NC, **Black, C.D.**, Loftin M, Valliant M, Brown LE, and Garner JC (2014). “Effects of Whole-body Vibration on Pain Sensitivity Following Exercise Induced Muscle Damage.” American College of Sports Medicine Annual Meeting (poster)
56. Tynes, B.K., Gonglach, A.R., Waddell, D.E., Loftin, M., and **Black, C.D.** (2013) “The effect of exercise on mechanical pressure pain threshold in the presence and absence of delayed-onset muscle soreness.” American College of Sports Medicine Annual Meeting (poster)
57. Gonglach, A.R., Tynes, B.K., Waddell, D.E., Loftin, M., and **Black, C.D.** (2013) “The Effect of Submaximal Isometric Exercise to Fatigue on Mechanical Pressure Pain Threshold in the Finger.” American College of Sports Medicine Annual Meeting (poster)

58. Tynes, B.K., Gonglach, A.R., Waddell, D.E., Loftin, M., and **Black, C.D.** (2013) “The effect of exercise on mechanical pressure pain threshold in the presence and absence of delayed-onset muscle soreness.” Southeast Regional American College of Sports Medicine Annual Meeting (poster)
59. Gonglach, A.R., Tynes, B.K., Waddell, D.E., Loftin, M., and **Black, C.D.** (2013) “The Effect of Submaximal Isometric Exercise to Fatigue on Mechanical Pressure Pain Threshold in the Finger.” Southeast Regional American College of Sports Medicine Annual Meeting (poster)
60. Sabatier, M.J. and **Black, C.D.** (2012) “Exercise-Induced Quadriceps Injury Disrupts Lower Body EMG Activity During Downslope Walking.” Society for Neuroscience Annual Meeting (poster)
61. **Black, C.D.** (2012). “Caffeine Enhances Time-Trial Performance and Preserves Muscle Activation During Leg, But Not Arm Cycling Exercise.” American College of Sports Medicine Annual Meeting (poster)
62. Sabatier, M.J., **Black, C.D.**, Luallen, M., Aylor, K., and Drew, S. (2012) “Heterogenic Effect of Exercise Induced Quadriceps Muscle Damage on Ankle Kinematics and Step Cycle Timing During Slope Walking.” American College of Sports Medicine Annual Meeting (poster)
63. Martino, M.A., Sibenaller, B., **Black, C.D.**, and Butler, S. (2011) “The Relationship Between Balance and Agility in Collegiate Athletes.” National Strength and Conditioning Association Annual Meeting (poster presentation)
64. **Black, C.D.** (2011) “The Effects of Caffeine on Muscle Pain During Arm and Leg Cycling.” American College of Sports Medicine Annual Meeting (poster)
65. Sethman, J, Borland, J, and **Black, C.D.** (2011) “Effects of Caffeine on Cycling Time-Trial Performance.” Georgia College and State University Student Research Conference (oral presentation)
66. **Black, C.D.**, Vick, K., and Salatino, J.M. (2010) “Quadriceps Muscle Injury and Delayed-Onset Pain Reduces Peak Exercise Performance.” American College of Sports Medicine Annual Meeting (poster)
67. Sibenaller, B., **Black, C.D.**, and Martino, M. (2010) “The Relationship Between Balance and Agility in Collegiate Athletes.” Georgia College and State University Student Research Conference (oral presentation)
68. Pickowitz, K.E., and **Black, C.D.** (2010) “The Effects of Caffeine on Muscle Pain During Arm and Leg Exercise.” Georgia College and State University Student Research Conference (oral presentation)

69. Vick, K.E., Anderson, S.M., and **Black, C.D.** (2010) "Atrophy of Muscle in Response to 4 Weeks of Unilateral Lower-Limb Suspension." Georgia College and State University Student Research Conference (oral presentation)
70. Dobson, R.M. and **Black, C.D.** (2010) "The Relationship Among Running Economy, Lactate Threshold and Distance Running Performance." Georgia College and State University Student Research Conference (oral presentation)
71. Kuklick, C., Martino, M., and **Black, C.D.** (2010) "Effects of 4 Weeks of Training with the Battling Ropes Training System on Peak Oxygen Consumption and Pitch Velocity" Georgia College and State University Student Research Conference (oral presentation)
72. **Black, C.D.** (2010) "Effects of Exercise Induced Muscle Injury on Muscle Pain, Perceived Exertion, and Physiological Responses to Submaximal Exercise." Southeast Regional American College of Sports Medicine Annual Meeting (poster)
73. Bailey, C., Martino, M. **Black, C.D.**, Butler, S. (2010) "Physiological and Metabolic Responses Associated with the Battling Ropes Training System." Southeast Regional American College of Sports Medicine Annual Meeting (poster)
74. Wilson, J.D., Armstrong, K.J., Martino, M.A., and **Black, C.D.** (2010) "Functional Movement Screen: Identifying Muscle Asymmetries through Sports Participation" Southeast Regional National Athletic Training Association Educators Conference (poster)
75. Armstrong, K.J., Luke, J.M., Martino, M.A., **Black, C.D.** (2010) "Exploring Admission and Attrition in Athletic Training Education" Southeast Regional National Athletic Training Association Educators Conference (poster)
76. Salatino, J.M., Vick, K., and **Black, C.D.** (2009) "Quadriceps Muscle Injury and Delayed-Onset Pain Reduces Maximal Oxygen Consumption." COPLAC (Council of Public Liberal Arts Colleges) Regional Student Research Conference (poster)
77. **Black, C.D.**, Herring, M.P., Hurley, D.J., and O'Connor, P.J. (2009) "Ginger Supplementation Attenuates Muscle Pain and Dysfunction Following Eccentric Exercise" ACSM Annual Meeting (poster)
78. Herring, M.P., **Black, C.D.**, Magee, L., and O'Connor, P.J. (2009) "Steamed Ginger Supplementation Reduces Pain Following Eccentric Exercise-Induced Injury" ACSM Annual Meeting (poster)
79. Salatino, J.M., Vick, K., and **Black, C.D.** (2009) "Quadriceps Muscle Injury and Delayed-Onset Pain Reduces Maximal Oxygen Consumption." Georgia College and State University Student Research Conference (poster)

80. Bailey, C., **Black, C.D.**, Martino M. (2009) "Physiological and Metabolic Characteristics Associated with the Battling Ropes Training System." Georgia College and State University Student Research Conference (oral presentation)
81. Wilson, J.D., Luke, J., **Black, C.D.**, Armstong, K., and Martino, M. (2009) "Functional Movement" Georgia College and State University Student Research Conference (oral presentation)
82. Knight, M., Henry, D., **Black, C.D.**, O'Connor, P.J. (2008) "The Effects of Chronic Consumption of Ginger on Muscle Pain and Prostaglandin Synthesis after Eccentric Exercise" Annual Biomedical Research Conference for Minority Students (poster)
83. Knight, M., Henry, D., **Black, C.D.**, O'Connor, P.J. (2008) "The Effects of Chronic Consumption of Ginger on Muscle Pain and Prostaglandin Synthesis after Eccentric Exercise" UGA Summer Undergraduate Research Program (poster)
84. **Black, C.D.** and McCully, K.K. (2008) "Determinants of Muscle Injury Following Electrically Stimulated Contractions." ACSM Annual Meeting (poster)
85. **Black, C.D.** and O'Connor, P.J. (2008) "Short Term Effects of 2-grams of Dietary Ginger on Muscle Pain, Inflammation, and Disability Induced by Eccentric Exercise." American Pain Society 2008 Annual Scientific Meeting (poster).
86. **Black, C.D.** and McCully, K.K. (2007) "Determinants of Muscle Injury Following Electrically Stimulated Contractions." Shepherd Center Research Day (poster)
87. **Black, C.D.**, Elder, C., and Dudley, G.A. (2006) "The role of force production in skeletal muscle injury." UGA Biomedical Health Science Institute Fall Retreat (poster).
88. Elder, C.P., Mahoney, E.T., **Black, C.D.**, Slade, J.M., and Dudley, G.A. (2006) "Oxygen cost of dynamic and isometric skeletal muscle contractions." UGA Biomedical Health Science Institute Fall Retreat (poster).
89. **Black, C.D.**, Elder, C., and Dudley, G.A. (2006) "The role of force production in skeletal muscle injury." ACSM Annual Meeting (poster).
90. Kendall, T., **Black, C.D.**, Elder, C., Gorgey, A., Dudley, G.A. (2006) "Determining the extent of neural activation during maximal effort." ACSM Annual Meeting (poster).
91. Elder, C., **Black, C.D.**, and Dudley, G.A. FACSM. (2006) "The effect of electrical stimulation frequency on activated skeletal muscle and specific tension." ACSM Annual Meeting (poster).
92. **Black, C.D.**, Elder, C., and Dudley, G.A. (2005) "The in vivo role of force production in skeletal muscle injury in humans." 2005 Workshop on Investigation of Human Muscle Function In Vivo (poster)

93. Stoner, L., Sabatier, M., **Black, C.D.**, and McCully, K.K. (2005) "Effects of acute cigarette smoking on shear rate-arterial responsiveness in young occasional smokers." 2005 Workshop on Investigation of Human Muscle Function In Vivo (poster).
94. Sabatier, M., Stoner, L., Mahoney, E. T., **Black, C.D.**, Elder, C., Dudley, G.A., and McCully, K.K. (2005). "Resistance training increases fatigue resistance but not artery size or function in individuals with SCI." ACSM Annual Meeting (poster).
95. Mahoney, E.T., Bickel, C.S., Slade, J.M. Elder, C., **Black, C.D.**, and Dudley, G.A. FACSME (2005). "Muscle size after 24 weeks of electrically stimulated resistance training in individuals with spinal cord injury." ACSM Annual Meeting (poster)
96. Stoner, L., Sabatier, M., Mahoney, E., **Black, C.D.**, Elder, C., Dudley, G., and McCully, K.K. (2005) "Electrical stimulation resistance training improves lower leg arterial health in chronic SCI patients. ACSM Annual Meeting (poster).
97. Stoner, L., Sabatier, M., Mahoney, E., **Black, C.D.**, Elder, C., Dudley, G., and McCully, K. (2005) "Electrical stimulation resistance training improves lower leg arterial health in chronic SCI patients." UGA Biomedical and Health Sciences Institute Symposium (poster)
98. Mahoney, E.T., Bickel, C.S., Slade, J.M. Elder, C., **Black, C.D.**, and Dudley, G.A. (2004) "Muscle size and glucose tolerance after 12 weeks of electrically stimulated resistance training in chronic SCI patients." UGA Biomedical and Health Sciences Institute Symposium (poster)
99. **Black, C.D.** and McCully, K.K. (2004) "Four weeks of increased physical activity did not improve fatigue symptoms in individuals with chronic fatigue syndrome." ACSM Annual Meeting (poster)
100. **Black, C.D.** and McCully, K.K. (2004) "Effects of four weeks of increased physical activity in individuals with chronic fatigue syndrome." Southeast Regional ACSM Annual Meeting (poster)
101. Stoner, L., Sabatier, M., **Black, C.D.**, and McCully, K.K. (2004). "The acute effects of cigarette smoking of vascular reactivity and vascular tone." ACSM Annual Meeting (poster).
102. Sabatier, M., Stoner, L., Mahoney, E., **Black, C.D.**, Elder, C., Dudley, G.A., and McCully, K.K. (2004) "Electrically-stimulated resistance training in individuals with SCI increases muscle fatigue resistance but not artery size or blood flow." UGA Biomedical and Health Sciences Institute Symposium (poster).

103. Castellano, V., Olive, J., Stoner, L., **Black, C.**, and McCully, K. (2003) “The effect of physical capacity on cardiovascular control in the elderly.” ACSM Annual Meeting (oral presentation)