

## CURRICULUM VITAE – JASON A. CAMPBELL, PHD.

Department of Health and Exercise Science

Wake Forest University

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### EDUCATION:

Doctor of Philosophy	Exercise Physiology, University of Alabama, Tuscaloosa, AL	(2010)
Master of Science	Exercise Physiology, University of Alabama, Tuscaloosa, AL	(2000)
Bachelor of Science	Sports/Fitness Management, University of Alabama, Tuscaloosa, AL	(1998)

### PROFESSIONAL EXPERIENCE

Adj Assistant Professor	Dept. of Health and Exercise Science, Wake Forest University	(2022 – Present)
Assistant Professor	Dept. of Health and Exercise Science, Univ of Oklahoma, Norman	(2015 – 2022)
Director	Sport and Tactical Performance Analytics Laboratory	(2015 – 2022)
Lecturer	Dept. of Health and Exercise Science, Univ. of Oklahoma, Norman	(2014 – 2015)
Sport Nutrition Assistant	Dept. of Athletics, University of Oklahoma, Norman	(2013 – 2015)
Assistant Professor	Dept. of Wellness & Therapy Sciences, Murray State University, KY	(2010 – 2013)
Graduate Assistant	Dept. of Kinesiology, University of Alabama, AL	(2008 – 2010)
Assistant Coach	Women's Gymnastics, The Ohio State University, OH	(2006 – 2008)
Adjunct Professor	Dept. of Kinesiology, University of Rhode Island, RI	(2005 – 2006)
Graduate Associate	Dept. of Exercise Science/Athletic Training, Springfield College, MA	(2003 – 2005)
Graduate Assistant	Tannehill State Park Education Program, University of Alabama, AL	(1999 – 2000)

### COURSES TAUGHT (U = undergraduate, G = Graduate)

#### Wake Forest University

Human Physiology Lab	HES 350L (U)	Lab Assessment Techniques	HES 354 (U)
Exercise Physiology	HES 353 (U)		

#### University of Oklahoma

Principles of Health/Fitness	HES 3813 (U)	Independent Study	HES 3990 (U)
Exercise Physiology	HES 3823 (U)	Nutrition/Sport Perf Non-Majors	HES 4803 (U)
Biomechanics	HES 3843 (U)	Sport and Exercise Nutrition	HES 4823 (U)
Exercise Testing and Prescription	HES 3853 (U)	Senior Capstone – HES	HES 4953 (U)
Facts/Fallacies of Exs/Nutrition	HES 3893 (U)	Athlete Tracking/Monitoring	HES 5313 (G)
Honors Research	HES 3980 (U)	Seminar in Sport/Exs Nutrition	HES 5970 (G)

#### Murray State University

Exercise Prescription/Special Populations	EXS 310 (U)	Exercise Testing and Prescription	EXS 455 (U)
Strength and Conditioning	EXS 333 (U)	Advanced Exercise Physiology	EXS 465 (U)
Biomechanics	EXS 375 (U)	Practicum in Exercise Science	EXS 460 (U)
Research Design/Statistical Measurement	EXS 400 (U)	Undergrad Internship Ex Science	EXS 470 (U)

#### University of Alabama

Self Defense for Women	KIN 155 (U)	Biomechanics	KIN 387 (U)
Measurement and Evaluation	KIN 366 (U)	Evaluation in Physical Education	KIN 566 (G)

#### University of Rhode Island

Principles of Coaching Athletics	KIN 263 (U)		
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#### Springfield College

Fitness and Wellness for Life	PEPC 100 (U)		
Tennis	PEAC 110 (U)		
Racquetball	PEAC 176 (U)		

**SUPERVISION OF GRADUATE RESEARCH – University of Oklahoma**

**Doctor of Philosophy Committees – Completed**

Doctoral Committee Member. (August 2015 – December 2019) Advisee: Kaur, Japneet. Department: Health and Exercise Science

Doctoral Committee Member. “Stimulating Exploration in Complex Task Learning via Pre-Practice and Intermittent Knowledge Enrichment.” (February 2017 – July 2019) Advisee: Westlin, Joseph. Department: Psychology

Doctoral Committee Member, "Wnt Signaling Inhibitor Characteristics According To Bone Status, Physical Activity Levels, And Muscle Function In Young And Middle-Aged Premenopausal Women." (2012 - May 2017) Advisee: Sharma Ghimire, Pragma. Department: Health and Exercise Science

**Doctor of Philosophy Committees – In Progress**

Doctoral Committee Member. (August 2016 – Present) Advisee: Hight, Robert. Department: Health and Exercise Science

**Master’s of Science – Completed**

Master's Committee Chair, "Monitoring Internal and External Loads in Female Division I Collegiate Gymnastics." (Expected July 2021) Advisee: Brewer, Maegan. Department: Health and Exercise Science

Master's Committee Chair, " 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." (May 2021) Advisee: Sax van der Weyden, Megan. Department: Health and Exercise Science

Master's Committee Member, " Regression Analysis of Strength Coach Salary and Its Effect on On-Field Performance and Academic Progress Rate in Division 1 Football " (May 2021) Advisee: Castiglione Jr., Joseph. Department: Health and Exercise Science

Master's Committee Chair, "Changes in Collagen Tissue Following a Damaging Bout of Eccentric Exercise." (July 2019) Advisee: Prowting, Joel. Department: Health and Exercise Science

Master's Committee Chair, "The Effects Of Exercise-Induced Muscle Damage In Female Collegiate Rugby Players Following Repeated Sprint Activity." (August 2018) Advisee: Hodgson, Nicholas. Home Department: Health and Exercise Science

Master's Committee Chair, "Recovery Patterns From High-Intensity Interval Resistance Exercise In Male And Female ROTC Cadets." (July 2017 - Present) Advisee: McGuire, Nicole. Home Department: Health and Exercise Science

Master's Committee Member, "Time Course Of Change In Critical Torque And Impulse Above Critical Torque Following Exercise-Induced Muscle Damage.". (June 2018) Advisee: Patel, Darshit. Home Department: Health and Exercise Science

Master's Committee Chair, "Developing And Testing And Ecologically Valid Fitness Test In Suburban Swat Operators." (December 2017) Advisee: Rollberg, Brian. Home Department: Health and Exercise Science

Master's Committee Member, "Preferred Versus Novel Exercise Modalities On Endogenous Pain Inhibition Following Exercise." (May 2017)  
Advisee: Schubert, Daniel. Home Department: Health and Exercise Science

Master's Committee Member, "Effects Of Postprandial Hypertriglyceridemia On Ischemic-Reperfusion Injury." (May 2017)  
Advisee: Wardlow, Garrett. Home Department: Health and Exercise Science

Master's Committee Member, "Impact Of Acute Increases In Retrograde Shear Rate On Microvascular Function." (May 2017) Advisee: Ramos Gonzalez, Macarena. Home Department: Health and Exercise Science

Master's Committee Member, "Estimation Of Critical Torque Using Neuromuscular Electrical Stimulation Of The Quadriceps In Humans." (May 2017)

Advisee: Janzen, Natalie. Home Department: Health and Exercise Science

#### **SUPERVISION OF UNDERGRADUATE RESEARCH – University of Oklahoma**

Simon Dempsey – Honor's Program (Spring 2021)

Nathan Spencer – Independent Study (Spring 2020)

Jennifer Norman – Honor's Program (Fall 2019)

Vijay Bhupathiraju – First Year Research Experience (FYRE) (Spring 2019)

Cooper Anderson – Independent Study (Fall 2018, Spring 2019)

Natsuko Oshima – Independent Study (Spring 2018)

Katie Primrose – Honor's Program (Spring 2018)

#### **GRANTS**

Campbell, J. (2020) – “Applied Biomechanics Concepts for Sport and Clinical Populations”. OU Alternative Textbook Grant Program. Award Amount: \$3500

**Campbell, J.** (2019) “The Utilization of 3-D Motion Analysis for the Assessment of Movement Dysfunction in Post-Operative Anterior Cruciate Ligament Patients”. Ed Cline Faculty Development Award. Requested: \$2500 (**Not Funded**)

**Campbell, J.** (2018) “Physical and Cognitive Performance in SWAT Operators Following an Intense Tactical Operation”, Junior Faculty Fellowship, VPR/College of Arts and Sciences. Requested: \$7,000 (PI: **Not Funded**)

**Campbell, J.** (2018) “Effects of a Student Peer Network on the Nutrition, Exercise, and Health Behaviors of College-Aged Men and Women”, Cigna Healthcare. Requested: \$10,000 (PI: **Not Funded**)

**Campbell, J.** (2018) “Physical and Cognitive Performance in SWAT Operators Following an Intense Tactical Exercise”, CRPDE Junior Faculty Fellowship, Requested: \$7,000 (PI: **Not Funded**)

**Campbell, J.,** Green, M, Bishop, P, and Hornsby, J. (2017) Understanding the Effects of Field Stressors and Sleep Disturbance on Pain Rating to Improve Military Task Performance. (US Special Operations Command, Funding Opportunity Number: W81XWH-16-R-SOC1) Requested: \$264,331 (PI: **Not Funded**)

**Campbell, J.** (2017) “Effects of a Student Peer Network on the Nutrition, Exercise, and Health Behaviors of College-Aged Men and Women” Requested: \$15,000 (PI: **Not Funded**)

#### **INDUSTRY CONTRACTS/SUPPORT**

**Campbell, J.,** Cohen, C., and Goodlett, M. (2019-2020). “Monitoring External and Internal Training Loads For NCAA, Division 1 Female Gymnasts Over the Preseason and Competitive Season”, Catapult Sports USA. Requested: \$7500 (equipment) (PI: **Funded**)

**Campbell, J.** (2018-2019) "Changes in Health-Related Fitness While Wearing a Variable Resistance Exoskeletal Device.", XOTrainer/XOTR. Requested: \$14,734.00 (PI: **Funded**)

#### **PEER-REVIEWED PUBLICATIONS (In-Print/In-Press)**

Sax van der Weyden M, D. Black C, Larson D, Rollberg B, **A. Campbell J.** 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; 18(15):7992. <https://doi.org/10.3390/ijerph18157992> (Published, July 2021)

Pragya Sharma-Ghimire, Samuel Buchanan, Michael G. Bemben, Allen Knehans, Jason Campbell, Debra A. Bemben, Sclerostin and Dickkopf-1 Characteristics According to Age and Physical Activity Levels in Premenopausal Women, *Journal of Clinical Densitometry*, 2021, ISSN 1094-6950, (Published, July 2021)

Prowting, J. L., Bemben, D. A., Black, C. D., Day, E. A., **Campbell, J. A.** (2020). "Effects of Collagen Peptides on Recovery Following Eccentric Exercise in Resistance-Trained Males—A Pilot Study." *International Journal of Sport Nutrition and Exercise Metabolism*, Vol. 31, No. 1, 32--39. (Published Ahead-of-Print November 2020; Published In-Print January 2021)

Stone, B. L., Heishman, A. D., **Campbell, J. A.** (2020). "The Effects of a Periodized vs. Traditional Military Training Program on 2-Mile Run Performance During the Army Physical Fitness Test (APFT)." *Journal of strength and conditioning research*, Vol. 34, No. 12, 3431-3438, DOI: 10.1519/JSC.0000000000002176. (Published)

Peterson, J., Schubert, D., **Campbell, J.**, Bemben, M., and Black, C. (2019). Endogenous Pain Inhibitory Function: Endurance-Trained Athletes vs Active Controls. *Pain Medicine*. DOI: 10.1093/pm/pnz014. Volume 20, Issue 9, 1822-1830.

Janzen, N., Hight, R., Patel, D., **Campbell, J.**, Larson, R., and Black, C. (2018). Estimation of Critical End-Test Torque Using Neuromuscular Electrical Stimulation of The Quadriceps In Humans. *European Journal of Applied Physiology* (2018) 118:1407–1414 <https://doi.org/10.1007/s00421-018-3872-5> (Published)

Szczyglowski, M. K., Ade, C., **Campbell, J. A.**, Black, C. D. (2017). The effects of exercise-induced muscle damage on critical torque. *European Journal of Applied Physiology*. doi: 10.1007/s00421-017-3710-1. (Published)

Ramos, M., Caldwell, J., Branch, P., Wardlow, G., Black, C. D., **Campbell, J. A.**, Larson, R. D., Ade, C. (2017). Impact of Shear Rate Pattern on Post-Occlusive Near-Infrared Spectroscopy Microvascular Reactivity. *Microvascular Research* (116), 50-56. (Published)

#### PEER-REVIEWED ABSTRACTS (Published/Presented)

Campbell, J., Larson, R., Black, C., FACSM, McGuire, K., (2019) Performance Recovery In Army Reserve Officer Training Corps Cadets Following A Bout Of High-Intensity Exercise. *Medicine and Science in Sport and Exercise*, 779 Board #13 May 29 2:00 PM - 3:30 PM

Prowting, J., Hodgson, N., Larson, R., Black, C., FACSM, **Campbell, J.** (2019). Can a Field Based Neuromuscular Test Determine Readiness to Train in Female Team Sport Athletes? *Medicine and Science in Sport and Exercise* 3452 Board #140 June 1 9:30 AM - 11:00 AM

Curiel, A., Janzen, N., **Campbell, J.**, Larson, R., and Black, C. (2018). Peripheral Fatigue Mechanisms During Voluntary and Stimulated Assessments of Critical Torque. *Medicine and Science in Sport and Exercise*, 2280 Board# 116, Vol. 50, 5S, pp. 558.

Peterson, J., Schubert, D., Bemben, M., **Campbell, J.**, and Black, C. (2018). Preferred Versus Novel Exercise Modalities on Endogenous Pain Inhibition Following Exercise. *Medicine and Science in Sport and Exercise*, 2107, Vol. 50, 5S, pp. 515.

**Campbell, J.**, Larson, R, Black, C, and McGuire, K. (2018). Performance Recovery in Reserve Officer Training Corps (ROTC) Cadets Following a Bout of High-Intensity Exercise. Poster #89. Annual Meeting, Central States Chapter, American College of Sports Medicine.

Prowting, J, Hodgson, N., Larson, R., Black, C., and **Campbell, J.** (2018). Consistency of Changes in Female Athlete Performance Following a Repeated Sprint Protocol. Poster #91. Annual Meeting, Central States Chapter, American College of Sports Medicine.

Sharma-Ghimire, P., Buchanan, S., Bemben, D., Bemben, M., Knehans, A., **Campbell, J.** (2017). Wnt signaling inhibitor characteristics according to bone status and physical activity levels in young and middle-aged premenopausal women. (vol. 32, pp. S290). *Journal of Bone and Mineral Research* (Published)

**Campbell, J** and Rollberg, B. (2017). Quantifying Job-Task Fitness Capacity In Suburban Swat Operators. NSCA National Conference, Poster Presentation. Thursday, July 13, Session A, Board 48. (Presented/Published in JSCR Supplement)

Ann Dunn, Farrell III, J.W., Lantis, D.J., Barton, M.A., Shipman, S.R., Cantrell, G.S., **Campbell, J.A.**, Bemben, M.G., Larson, D.J., & Larson, R.D. Training Intensity Distribution in Collegiate Cross-Country Runners. *Medicine and Science in Sport and Exercise*, 46:S760, 2015.

**Campbell, J. A.** American College of Sports Medicine and Exercise is Medicine World Congress, "Recovery and Soreness in Trained Females After an Exhaustive Resistance Training Protocol," American College of Sports Medicine, San Francisco, CA. (May 2012). (poster presentation)

**Campbell, J. A.** Annual Meeting of the National Association of Collegiate Gymnastics Coaches - Women, "Measurement for recovery, periodization, and peaking in collegiate gymnastics" Virginia Beach, VA. (May 2012). (Invited presentation)

**Campbell, J. A.** American College of Sports Medicine and Exercise is Medicine World Congress, "The Effect of Acute Carbohydrate-Protein Supplementation Following Exhaustive Resistance Exercise in Trained Females," American College of Sports Medicine, Denver, CO. (June 2011). (Poster presentation)

**Campbell, J. A.** Southeast Regional Meeting of the American College of Sports Medicine, "Recovery and Soreness in Trained Females After an Exhaustive Resistance Training Protocol," American College of Sports Medicine, Greenville, South Carolina. (February 2011). (Oral presentation)

**Campbell, J. A.** and Bishop, P. Influence of comfort expectation on reported comfort during work in two different encapsulating protective garments. Southeastern American College of Sports Medicine Annual Meeting, Greenville, SC. February 13, 2010. (Poster presentation)

#### **MANUSCRIPTS (Submitted/In Preparation)**

Stone, B., Miller, R., Heishman, A., **Campbell, J.**, and Kellawan, J. (2022). "Fitness and Performance Responses to Load Carriage Specific Training in Reserved Officers Training Corps" (In 2<sup>nd</sup> Review, US Army Medical Journal)

**Campbell, J.**, Brewer, M., Saxvanderweyden, M., and Goodlett, M. (2022). "Monitoring External and Internal Training Loads For NCAA, Division 1 Female Gymnasts During the Preseason and Competitive Season." (In preparation, anticipated *Journal of Strength and Conditioning Research*)

**Campbell, J.**, McGuire, K., Black, C., Larson, R., and Sax van der Weyden, M. (2022). Recovery Following High-Intensity Interval Resistance Training in Male and Female Army ROTC Cadets (anticipated, *Journal of Strength and Conditioning Research*)

#### **APPLIED EXPERIENCE**

Data Analytics/Sports Performance Consultant, Auburn University Women's Gymnastics (Aug 2019 – Present)

Volunteer Sports Nutrition Assistant, University of Oklahoma Sports Nutrition (Aug 2013 – 2015)

Volunteer Strength and Conditioning Coach, University of Alabama Football (Feb 2008 – Aug 2009)

Assistant Coach for Women's Gymnastics, The Ohio State University

Assistant Coach for Women's Gymnastics, University of Rhode Island

Assistant Coach for Women's Gymnastics, Springfield College

Business Manager, AcroSports International Incorporated

**PROFESSIONAL PRESENTATIONS**

**Campbell, JA.** OU Academic Technology Expo, "From Lecturing to Leaping: How The Integration of IOS/Android-Based Applications Turbocharged My Biomechanics Classroom," OU IT, OUHSC - Oklahoma City. (January 10, 2020). Oral Presentation, Exposition.

**Campbell, JA.** Central States ACSM Annual Meeting. "External Load Monitoring Through Wearable Technology: GPS, Accelerometry, and Inertial Measurement Units" (October 2019)

**Campbell, JA.** Catapult Football Performance Workshop. "Biomechanical and Bioenergetic Considerations for Quantification of Fatigue and Recovery" (February 2019)

**Campbell, JA.** Leaders in Performance Sport Performance Summit. "Learning Strategy Evaluation in Elite Athletes" (August 2017) – New York, New York

**Campbell, JA.** Leaders in Performance Sport Performance Summit. "Translating the Technical to the Tactical" (July 2017) – Chicago, IL

**Campbell, J.A.** Leaders in Performance Sport Performance Summit. Roundtable Participant, "Emerging Technologies in Sport Performance Training/Enhancement" (July 2015)

**Campbell, J.A.** Seattle Sounders Sport Science Symposium/Conference. Roundtable Participant, "Connecting the Dots: Athlete Monitoring and Sport Program Integration" (June 2015)

**CONSULTATION WORK**

Auburn University, Women's Gymnastics Team	(2019 – Current)
University of Oklahoma, Track and Field Team	(2013 – Current)
University of Oklahoma, Women's Gymnastics Team	(2012 – 2015)
University of Nebraska, Women's Gymnastics Team	(2013)
Ohio State University, Women's Gymnastics Team	(2009 – 2017)
University of Wisconsin-Stout, Women's Gymnastics Team	(2013 – 2016)
Nebraska Athletic Performance Laboratory	(2013 – Present)
Baylor Athletic Performance/Baylor Football	(2012)
Catapult Sports, Inc.	(2011 – Present)
EAS, Inc.	(2010 – 2014)

**CERTIFICATIONS**

National Strength and Conditioning Association – Certified Strength and Conditioning Specialist

American Red Cross – First Aid, CPR, and AED certified

USA-Gymnastics – Safety Certified

SHARP (Sexual Harassment and Rape Prevention Strategies) – Certified Instructor

**PROFESSIONAL MEMBERSHIPS**

American College of Sports Medicine – National and Southeast Regional Member

National Strength and Conditioning Association – Member

Collegiate Strength and Conditioning Coaches' Association – Member

National Association for Collegiate Gymnastics Coaches – Member

USA Gymnastics – Professional Member

**UNIVERSITY, PROFESSIONAL, AND COMMUNITY SERVICE**

Central States American College of Sports Medicine – Secretary (Oct 2018 – 2022)

Central States American College of Sports Medicine – Quiz Bowl Cmtte (Oct 2018 – 2022)

Rita H. Lotinville Prize Committee	(Aug 2018 – 2022)
ROTC Advisory Committee – Presidential Appointment	(Aug 2018 – 2022)
University Library Committee – Faculty Senate Appointment	(Aug 2018 – 2022)
OU Graduate Academic Committee	(Aug 2018 – 2022)
OU Wellness Program Advisory	(June 2016 – 2022)
HES Planning Committee	(May 2016 – 2022)
PLOS One – Reviewer	(Aug 2015 – 2022)
Journal of Strength and Conditioning Research – Reviewer	(Jan 2016 – 2022)
International Journal of Sports Medicine – Reviewer	(Nov 2017 – 2022)
Leaders in Performance - Technical Reviewer	(Aug 2015 – 2022)
OU Adopt-A-Professor Program Participant	(Aug 2014 – 2022)
OU Undergraduate Academic Committee	(Aug 2014 – 2022)
MSU HSHS Search Committee, Clinical Education	(Jan 2012)
Coordinator for Athletic Training	
MSU Undergraduate Research Board	(Aug 2012)
MSU Faculty Senate, HSHS Senator	(May 2010)
MSU HSHS Research Committee.	(Sep 2010)
MSU HSHS Technology Committee.	(Sep 2010)
MSU Faculty Advisor for Exercise Science Club	(Oct 2010)
Academic Chair for National Association of Collegiate Gymnastics Coaches – Women	(Jun 2007 – Jun 2015)
Volunteer for National Veterans Golden Age Games	(May 2009)
Veteran’s Administration Medical Center –Birmingham	