Curriculum Vitae

Arkansas State University Gregory S. Cantrell PhD, CSCS PO Box 240 State University, AR 72467 (870) 680 - 8133 (office) (405) 479 – 9487 (cell)

Education

Doctor of Philosophy Health and Exercise Science Degree: Exercise Physiology University of Oklahoma Norman, OK Graduation Date: May 12, 2017

Dissertation: Relationship between soleus H reflex and balance metrics in people with multiple sclerosis.

Chair: Rebecca Larson, PhD.

Master of Science in Education

Health and Sport Sciences Degree: Exercise and Sports Science University of Memphis Memphis, TN Graduation Date: August 12, 2013

Project Title: Maximal strength, power, and aerobic endurance adaptations to concurrent strength and sprint interval training.

Bachelor of Science in Education

Health and Human Performance Degree: Health and Sport Sciences Concentration: Exercise Science University of Memphis Memphis, TN Graduation Date: May 08, 2011

Senior Project: Effects of 2-nitrooxy ethyl 2-amino 3-methylbutanoate gel on resistance exercise performance and blood nitrate/nitrite in resistance trained men.

Teaching

<u>University of Oklahoma</u> HES 3873 – Principles of Personal Training

HES 4883 - Exercise Physiology Testing Labs

Northern State University

HLTH 422/522 – Nutrition (F-2-F and online) IDL 190 – Freshman Seminar PE 100 – Weight Training PE 350 – Exercise Physiology PE 400 – Exercise Testing & Prescription PE 451 – Tests & Measurements PE 452 – Motor Learning and Development PE 454 – Biomechanics PE 482/582 – Theories of Strength and Conditioning PE 752 – Analysis and Mechanical Principles of Sport Skill EDER 761 – Research Design

Arkansas State University

ES 3653 – Techniques of Aerobic Conditioning ES 3713 – Cardiovascular Physiology ES 4673 – Exercise Testing and Prescription for Special Populations

Invited Lectures

Northern State University – "Statistical Methods to Soleus Hoffmann Reflex Examination in Multiple Sclerosis" Primrose Retirement Community – "It's Never Too Late To Exercise" (Spring 2018)

Memberships

Pinnacle National Honors Society (2011-2012) National Education Association/Tennessee Education Association (2012-2013) National Strength and Conditioning Association (2011-2015) American Physiological Society (2014 – 2018) American College of Sports Medicine (2014 – National MS Consortium (2016 – 2018)

Certifications

Certified Strength and Conditioning Specialist (NSCA-CSCS) 2011 -CPR/AED (American Heart Association) 2010 -Collaborative Institutional Training Initiative (CITI) 2011 -

Research/Travel Grants

Internal (University of Oklahoma) College of Arts and Sciences Grant 2017 Requested: \$750.00 Approval: Funded (\$250.00) Robberson Conference Presentation and Creative Exhibition Travel Grant Requested: \$1000.00 Approval: Funded (\$157.86)

Graduate Student Senate Conference Grant 2017 Requested: \$750.00 Approval: Funded (\$600.00)

Robberson Research and Creative Endeavor Grant Fall 2016 Requested: \$1000.00 Approval: Funded (\$1000.00)

Graduate Student Senate Conference Grant 2015 Requested: \$750.00 Approval: Funded (\$438.75)

College of Arts and Sciences Grant 2015 Requested: \$750.00 Approval: Funded (\$750.00)

External NSCA Master's Graduate Research Award Applied March 2012 Title of Project: Concurrent strength and high intensity endurance training Approval: Funded (\$5,000)

Awards

University of Memphis

• Graduate Research Assistant (Fall 2011 – Spring 2013)

University of Oklahoma

• Graduate Teaching Assistant (Fall 2013 – Spring 2017)

Book Chapters

Larson, R.D., **Cantrell, G.S.**, Farrell III, J.W., Lantis, D.J., Pribble, B.A. Assessment, Consequence and Clinical Implication of Asymmetry. In Watson, R. (ed.) **Multiple Sclerosis:** Food and Lifestyle in Neurological Autoimmune. Elsevier, 2016.

Peer Reviewed Manuscripts

Cantrell, G.S., Lantis, D.J., Bemben, M.G., Black, C.D., Larson, D.J., Pardo, G., Fjeldstad-Pardo, C. and Larson, R.D. Relationship between soleus H-reflex asymmetry and postural control in multiple sclerosis. Disability and Rehabilitation. (2020).

Farrell III, J.W., Dunn, A., **Cantrell, G.S.**, Lantis, D.J., Larson, D.J., Larson, R.D. The effects of group running on the training intensity distribution of collegiate cross-country runners. J Strength Cond Res. (2019).

Larson, R.D., Barton, M., Farrell III, 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. IJKSS (2018) 6:4 doi: http://dx.doi.org/10.7575/aiac.ijkss.v.6n.4p.21

Farrell III, J.W., Lantis, D.J., Ade, C.J., **Cantrell, G.S.**, Larson, R.D. Aerobic Exercise Supplemented with Muscular Endurance Training Improves Onset of Blood Lactate Accumulation. J Strength Cond Res. (2018) 32: 1376-82.

Lantis, D.J., Farrell III, J.W., **Cantrell, G.S.**, Larson, R.D. Eight Weeks of High Volume Resistance Training Improves Onset of Blood Lactate in Trained Individuals. J Strength Cond Res. (2017) 31: 2176-82.

Larson R.D., **Cantrell G.S.***, Ade C.J., Farrell III J.W., Lantis D.J., Barton M.A., Larson D.J. (2015) Physiologic Responses to Two Distinct Maximal Cardiorespiratory Exercise Protocols. Int J Sports Exerc Med 1:013.

DeForest, B.A., **Cantrell, G.S.**, and Schilling, B.K. (2014) Muscle Activity in Single- vs. Double-Leg Squats, International Journal of Exercise Science: Vol. 7: Issue 4, Article 6.

Cantrell G.S.*, Schilling B.K., Paquette M.R., Murlasits Z. Maximal strength, power, and aerobic endurance adaptations to concurrent strength and sprint interval training. Eur J Appl Physiol. (2014) 114: 763 – 771.

Bloomer R.J., Alleman Jr., R.J., **Cantrell G.S.**, Farney T.M., Schilling B.K.. Effects of 2-nitrooxy ethyl 2-amino 3methylbutanoate gel on resistance exercise performance and blood nitrate/nitrite in resistance trained men. J Strength Cond Res. (2012) 26:1680-7.

*denotes corresponding author

Refereed Conference Abstracts

Pribble, B.A., Farrell III, J.W., **Cantrell, G.S.**, Lantis, D.J., Bemben, D.A., Black, C.D., Larson, D.J., Larson, R.D. Body Composition In Persons With Multiple Sclerosis Vs. Healthy Controls, Medicine & Science in Sports & Exercise, 52:S7 2020.

Lantis, D.J., **Cantrell, G.S.**, Hintz, J.P., Owens, C.D., Bemben, D.A., Black, C.D., Larson, D.J., Larson, R.D. The Effects of Fatigue on Peak Torque During Dorsiflexion Between Limbs in Multiple Sclerosis Patients. Medicine and Science in Sport and Exercise, 51:S5, 2019.

Owens, C., Lantis, D., **Cantrell, G.S.**, Bemben, D., Black, C., Larson, D., & Larson, R. Effects Of Fatigue On Isometric And Isokinetic Dorsiflexion Strength Asymmetry In Multiple Sclerosis. Medicine and Science in Sport and Exercise, 51:S5, 2019.

Farrell III, J.W., Ade, C.J., Lantis, D.J., **Cantrell, G.S.**, Pribble, B.A., Larson, D.J., Larson, R.D. Impact of Exercise Intensity Domain on Bilateral Asymmetry in Multiple Sclerosis. ISPRM 2018.

Cantrell, G.S., Lantis, D.J., Bemben, M.G., Black, C.D., Larson, D.J., Larson, R.D. Relationship between Soleus H Reflex and Balance Metrics in People with Multiple Sclerosis. Medicine and Science in Sport and Exercise, 50:S5, 2018.

Lantis, D.J., **Cantrell, G.S.**, Hintz, J.P., Owens, C.D., Bemben, D.A., Black, C.D., Larson, D.J., Larson, R.D. Relationship Between Dorsiflexion Strength Asymmetry, Walking Performance, and Disability in Multiple Sclerosis Patients. Medicine and Science in Sport and Exercise, 50:S5, 2018.

*Korvela, A., **Cantrell, G.S.** Effects of Beetroot Juice Supplementation on Aerobic- Trained and Anaerobic-Trained Female Athletes. National Collegiate Honors Council, 2018.

Cantrell, G.S., Lantis, D.J., Farrell III, J.W., Pribble, B.A., Larson, D.J., Larson, R.D. Relationship Between Peak Power Asymmetry and Self-Reported Measures of Fatigue in People with Multiple Sclerosis. Medicine and Science in Sport and Exercise, 49:S5, 2017.

Farrell III, J.W., Lantis, D.J., **Cantrell, G.S.**, Bemben, D.A., Larson, R.D. Tracking of blood lactate response across eight sessions of muscular endurance resistance training. Medicine and Science in Sport and Exercise, 49:S5, 2017.

Lantis, D.J., **Cantrell, G.S.**, Hintz, J.P., Larson, D.J., Farrell III, J.W., Pribble, B.A., Larson, R.D. Knee extensor asymmetry in multiple sclerosis patients before and after single-leg cycling. Medicine and Science in Sport and Exercise, 49:S5, 2017.

Larson, R.D., Farrell III, J.W., **Cantrell, G.S.,** Lantis, D.J., Pribble, B.A., Larson, D.J., Ade, C. Evaluation of Oxygen Uptake Kinetic Asymmetries: A Pilot Study. ECTRIMS 2016.

Cantrell, G.S, Barton, M., Larson, D., Lantis, D., Farrell III, J., Shipman, S., and Larson, R. Physiological Responses of 2 Distinct VO₂max protocols: A validation study. Medicine and Science in Sport and Exercise, 47:S5, 2015.

Farrell III, J.W., Lantis, D.J., Barton, M.A., Shipman, S.R., **Cantrell, G.S.,** Bemben, D.A., & Larson, R.D. Effects of High Repetition/low Resistance Training with 30 seconds of Rest Intervals on Lactate Threshold. Medicine and Science in Sport and Exercise, 47:S5, 2015.

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, 47:S5, 2015.

Barton, M.A., Larson, D.J., Lantis, D.J., Farrell III, J.W., **Cantrell, G.S.**, Shipman, S.R., & Larson, R.D. Comparison Between VO₂ Max Cycling Protocols (standard vs. ramp). Medicine and Science in Sport and Exercise, 46:S5, 2014.

*Indicates Undergraduate Research

Professional Service

Northern State University

- Graduate Council Member: Fall 2018 Spring 2020
- School of Education Scholarship Committee: Spring 2019

Ad Hoc Manuscript Reviewer

- Sports Medicine 2020 -
- Applied Physiology, Nutrition, and Metabolism 2016 -
- European Journal of Sports Science 2016 -