# Matthew Thomas Stratton Ph.D., CSCS, EP, CISSN

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### Education

<b>Texas Tech University</b> , Lubbock, TX College of Arts & Sciences Ph.D., Exercise Physiology	August 2019 – August 2022
Kennesaw State University, Kennesaw, GA College of Health & Human Services M.S., Applied Exercise & Health Science Honors Graduate	January 2018 – May 2019
<b>University of New Mexico</b> , Albuquerque, NM College of Education B.S., Exercise Science Minor: Music <i>Summa Cum Laude</i>	August 2013 – December 2017
<b>Riverside Community College</b> , Riverside, CA College of Fine Arts Transfer	August 2007 – June 2013

# **Honors/Awards**

#### **Student Manuscript Award**

3<sup>rd</sup> Place Title: The Influence of Caffeinated and Non-caffeinated Multi-Ingredient Pre-workout Supplements on Resistance Exercise Performance and Subjective Measures. American College of Sports Medicine Texas Chapter Annual Conference – Waco, Texas

#### **Graduate Recruitment Fellowship**

\$4,000/year Department of Kinesiology and Sport Management Texas Tech University

#### Data Blitz

2<sup>nd</sup> Place Title: The Influence of Caffeinated and Non-caffeinated Preworkout Supplements on Resistance Exe 315.07 248.42nce Exe

International Society of Sports Nutrition (ISSN) Annual Conference – St. Petersburg, Florida	
<b>Data Blitz</b> 3 <sup>rd</sup> Place Title: The Effect of Time-Restricted Feeding in Combination with Resistance Training on Measures of Body Composition, Muscle Performance, Resting Energy Expenditure, and Blood Biomarkers International Society of Sports Nutrition (ISSN) Annual Conference – Las Vegas, Nevada	2019
1 <sup>st</sup> Place Title: The Effect of Time-Restricted Feeding in Combination with Resistance Training on Measures of Body Composition, Muscle Performance, Resting Energy Expenditure, and Blood Biomarkers International Society of Sports Nutrition (ISSN) Annual Conference – Las Vegas, Nevada	2019
<b>Outstanding Graduate Student Award</b> Applied Exercise and Health Science Kennesaw State University	2019
Honors Graduate GPA: 4.0 Kennesaw State University	2019
2 <sup>nd</sup> Place Title: Rate of Velocity, Torque, and Power Development in Middle-Aged and Older Males Southeast American College of Sports Medicine (ACSM) Conference – Greensville, South Carolina	2018
2 <sup>nd</sup> Place Title: The Effect of Dynamine With and Without TeaCrine Over Four Weeks of Continuous Use on Cardiovascular Function, and Psychometric Parameters: A Pilot Study International Society of Sports Nutrition (ISSN) Annual Conference – Clearwater, Florida	2018
Dean s List GPA: 3.96	2015 - 201

GPA: 3.96

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The University of New Mexico

#### **Outstanding Graduating Undergraduate Student Award** 2017

Exercise Science The University of New Mexico

### **Instructor of Record**

# **Applications is Sports Conditioning KIN 484**

University of South Alabama Modality: F2F Number of sections per semester: 1 Enrollment per section: 30

#### Exercise Physiology KIN 476

University of South Alabama Modality: F2F Number of sections per semester: 2 Enrollment per section: 35

# Advanced Strength and Conditioning KIN 4305

Texas Tech University Modality: F2F Number of sections per semester: 1 Enrollment per section: 45

# Physiological Application of Nutrition to Exercise and Physical Activity

#### **Teaching Assistant on Record**

#### **Nutrition and Performance**

Professor: Trisha VanDusseldorp Kennesaw State University

# **Clinical Exercise Physiology**

Professor: Trisha VanDusseldorp Kennesaw State University

#### Work Experience

#### Assistant Professor of Exercise Science Department of Health, Kinesiology, and Sport University of South Alabama, Mobile, AL

#### **Graduate Part-Time Instructor**

Department of Kinesiology & Sports Management Texas Tech University, Lubbock, TX Duties: Conducted research regarding applied body composition and nutritional supplements. Additionally taught 2 sections per semester of either applied exercise physiology lab or lecture courses such as sports nutrition or advanced strength and conditioning.

#### **Analytical Chemist**

Deerland Enzymes and Probiotics Research and Development Kennesaw, GA Duties: Worked as a part of a research team assessing the stability of various probiotic strains in a multitude of commercial food and beverages. Additionally, developed protocols to assess the validity of new products.

#### **Graduate Research Assistant**

Department of Exercise Science & Sports Management Kennesaw State University, Kennesaw, GA Duties: Worked as part of a research team in the KSU Human Performance Lab (HPL). Duties included running and coordinating data collection for community and lab testing for multiple labs including: Bodpod, DXA, BIA, blood draws, VO<sub>2</sub>max and stress testing, biodex assessments, balance, and ELISA and SimpleWes biochemical assessments. January 2018 - August 2019

January 2019 - August 2019

August 2022 - Present

August 2019 – August 2022

May 2019 – August 2019

January 2018 - May 2019

#### **Exercise Performance Laboratory Intern**

Department of Exercise Science The University of New Mexico, Albuquerque, NM Duties: Worked as part of a research team in the UNM Exercise Physiology Lab (UNM EPL) to collect and disseminate research. Worked in the UNM EPL running community, student, and staff testing, including: hydrostatic weighing, BodPod, skinfolds, blood draws, stress testing, and VO2max testing.

#### Summer Research Assistant

Department of Exercise Science & Sports Management Kennesaw State University, Kennesaw, GA

#### **Key Holder**

The Vitamin Shoppe, Albuquerque, NM

August 2017 – December 2017

May 2017 – August 2017

Course Code: KIN 7104 Level: Doctoral Texas Tech University, Lubbock, TX	
The Role of Intermittent Fasting in Weight Loss and Maintenance of Fat Free Mass Course Code: KIN 7104 Level: Doctoral Texas Tech University, Lubbock, TX	October 2020
<b>Impact of Acute Dietary Nitrate Supplementation during</b> <b>Exercise in Hypertensive Populations</b> Course Code: KIN 7303 Level: Doctoral Texas Tech University, Lubbock, TX	September 2020
<b>The Role of Training to Failure in the Hypertrophic</b> <b>Response to Resistance Training</b> Course Code: KIN 7303 Level: Doctoral Texas Tech University, Lubbock, TX	October 2019
<b>Cardiovascular Adaptations to Exercise</b> Course Code: ES 3900 Level: Undergraduate Kennesaw State University, Kennesaw, GA	July 2018
<b>Ketogenic Style Diets and Their Performance Implications</b> Course Code: ES 4200 Level: Undergraduate Kennesaw State University, Kennesaw, GA	July 2018
History of the Placebo Effect in Supplementation Course Code: EHS 6520 Level: Masters Kennesaw State University, Kennesaw, GA	April 2018
<b>Protein Composition and Animal vs Plant Protein</b> Course Code: ES 4200 Level: Undergraduate Kennesaw State University, Kennesaw, GA	

<b>Ergogenic Aid Formulations</b> Course Code: ES 4200 Level: Undergraduate Kennesaw State University, Kennesaw, GA	July 2017, 2018
<b>The Science Behind Common Ergogenic Aids</b> Course Code: ES 4200 Level: Undergraduate Kennesaw State University, Kennesaw, GA	July 2017, 2018
Mitral Valve Prolapse: Training Implications	May 2017
Course Code: PEP 476 Level: Undergraduate University of New Mexico, Albuquerque, NM	

# **Activities to Improve Instruction**

#### **University Level Courses**

1. KIN 7305 "College and University Teaching in Exercise Physiology" – Texas Tech University

<u>Course Description</u>: Study of educationally sound curricular design, instructional delivery characterized by interactive lecturing and active learning, and formative and summative assessments of learning in exercise physiology.

<u>Skills Developed</u>: The ability to develop engaging, interactive lectures that aid in student learning. The ability to use and integrate a wide variety of active learning techniques. The development of productive and meaningful formative and summative learning assessments and interpretation and utilization of the results. Best practices for online course design including universal course design concepts.

2. GRAD 9001 "College and University Teaching" - Kennesaw State University

<u>Course Description</u>: This course introduces students to effective pedagogical skills and is designed to prepare Graduate Teaching Assistants for their duties. Topics include understanding how students learn, creating active learning environments, using formative and summative assessments, grading, handling problematic student behavior, responding to student diversity, designing courses and syllabi, and creating teaching philosophies.

<u>Skills Developed</u>: The ability to identify and use active learning strategies in a variety of settings and classrooms. Additionally, the ability to develop successful courses and syllabi for students from a wide variety of backgrounds.

# Seminars Attended Regarding University Instruction and Course Design

1. Involving Student Narratives – Texas Tech University

Seminar Description: Student involvement is a great way to help move higher-order

- GM Tinsley, PS Harty, MT Stratton, MR Siedler, C Rodriguez "Liposomal Mineral Absorption: A Randomized Crossover Trial" Nutrients (2022) ISSN: 2072-6643 DOI: <u>https://doi.org/10.3390/nu14163321</u> PMID: 36014827
- 3. GM Tinsley, **MT Stratton**, PS Harty, AD Williams, SJ White, C Rodriguez, JR Dellinger, BA Johnson, RW Smith, ET Trexler "Influence of Acute Water Ingestion and

(2021) Aug 1;35(8):2067-2074. ISSN: 1064-8011 DOI: https://doi.org/10.1519/JSC.000000000004069. PMID: 34100783

- 12. C Rodriguez, PS Harty, MT Stratton, MR Siedler, RW Smith, BA Johnson, JR Dellinger, AD Williams, SJ White, ML Benavides, GM Tinsley. "Comparison of Indirect Calorimetry and Common Prediction Equations for Evaluating Changes in Resting Metabolic Rate Induced by Resistance Training and a Hypercaloric Diet." Journal of Strength and Conditioning Research. (2021) ISSN: 1064-8011 DOI: <u>https://doi.org/10.1519/JSC.000000000004077</u>. PMID: 34172636
- JR Dellinger, BA Johnson, ML Benavides, ML Moore, MT Stratton, PS Harty, MR Siedler, and GM Tinsley. "Agreement of bioelectrical resistance, reactance, and phase angle values from supine and standing bioimpedance analyzers". Physiological Measurement (2021). ISSN: 1361-6579. DOI: <u>https://doi.org/10.1088/1361-6579/abe6fa</u>. PMID: 33592586.
- 14. GM Hester, PL Ha, BE Dalton, TA VanDusseldorp, AA Olmos, MT Stratton, AR Bailly, TM Vroman. "Rate of Force Development as a Predictor of Mobility in Community-dwelling Older Adults". Journal of Geriatric Physical Therapy (2021) ISSN: 1539-8412 DOI: <u>https://doi.org/10.1519/JPT.00000000000258</u> PMID: 31917715
  15. GM Tinsley, AE Smith-Ryan, Y Kim, MNM Blue, BS Nickerson, MT Stratton, and PS
- 15. GM Tinsley, AE Smith-Ryan, Y Kim, MNM Blue, BS Nickerson, MT Stratton, and PS Harty. "Fat-free mass characteristics vary based on sex, race, and weight status in US adults". Nutrition Research 81 (2020), pp. 58-70. ISSN: 1879-0739. DOI: <a href="https://doi.org/10.1016/j.nutres.2020.07.002">https://doi.org/10.1016/j.nutres.2020.07.002</a>DPMI882305782467
- 16. PS Harty, MT Stratton, G Escalante, C Rodriguez, JR Dellinger, AD Williams, SJ White, RW Smith, BA Johnson, MB Sanders, and GM Tinsley. "Effects of Bang® Keto Coffee Energy Drink on Metabolism and Exercise Performance in Resistance-Trained Adults: A Randomized, Double-blind, Placebo-controlled, Crossover Study". Journal of the International Society of Sports Nutrition 17.1 (2020), p. 45. ISSN: 1550-2783. DOI, race, a3783. DOI

Jul 27;12(8):2246. ISSN: 1475-2662. DOI: https://doi.org/10.3390/nu12082246. PMID: 32727162

- 21. SC Forbes, DG Candow, AE Smith-Ryan, KR Hirsch, MD Roberts, TA VanDusseldorp, MT Stratton, M Kaviani, JP Little. "Supplements and Nutritional Interventions to Augment High-Intensity Interval Training Physiological and Performance Adaptations-A Narrative Review". Nutrients. 2020 Jan 31;12(2):390. ISSN: 2072-6643 DOI: https://doi.org/10.3390/nu12020390. PMID: 32024038 22. TM Smith, GM Hester, PL Ha, AA Olmos, **MT Stratton**, TA VanDusseldorp, YnBT(n 31;12(2))4 (:390

#### **Professional Journals**

- 1. **MT Stratton,** TA VanDusseldorp, L Kravitz (2017). "Protein Supplements: Which "Whey" to Go? Understanding the differences between major animal- and plant-based protein supplements." IDEA Fitness Journal, *14*(9), 11-12.
- 2. **MT Stratton**, L Kravitz (2017). "5 Common Athletic-Performance Supplements: What's the Evidence?" IDEA Fitness Journal, *14*(3), 16-18.

#### **Textbook Chapters**

 GT Mangine, MT Stratton. Chapter 16 "Incorporating Dietary Supplements with Sports-Specific Training and Competition" *Dietary Supplementation in Sport and Exercise: Evidence, Safety and Ergogenic Benefits*, 2019, Routledge Taylor and Francis, ISBN: 9781138610842

#### **Manuscripts Under Review**

**MT Stratton**, C Rodriguez, MR Siedler, PS Harty, JR Boykin, JJ Green, DS Keith, SJ White, E Tinoco, GM Tinsley. "The Impact of Breakfast Consumption on Afternoon Resistance Training Performance in Habitual Breakfast Consumers and Non-Consumers." *British Journal of Nutrition – Under Review* 

GM Tinsley, MR Siedler, C Rodriguez, PS Harty, **MT Stratton**, SJ White, DS Keith, JJ Green, JR Boykin, AD Williams, B DeHaven, A Brojanac, E Tinoco "Evaluation of Novel Beverage Formulations for Hydration Enhancement in Humans" *Journal of Electrical Bioimpedance – Under Review* 

GM Tinsley, PS Harty, MR Siedler, **MT Stratton**, C Rodriguez "Improved Precision of 3-Dimensional Optical Imaging for Anthropometric Measurement Using Non-Rigid Avatar Reconstruction and Parameterized Body Model Fitting" *European Journal of Clinical Nutrition Under Review* 

DS Keith, D Sc1 12 Tf125.18 46TJETQ3 12Td (ng)TJEQ

A Holmes, GM Hester, **MT Stratton**, Y Feito, J Gottschall, T Esmat, P Ha, A Lavigne, K Persaud, H Gagnon, A Krueger, A Modjeski, TA Vandusseldorp "Effect of 8 Weeks of Plyometric-based and Cycle-based High Intensity Training on Physiological Measures" *Applied Physiology, Nutrition and Metabolism* – Manuscript in Preparation – 2022

KA Escobar, **MT Stratton**, KE Johnson, CM Mermier, K Dokladny, C Kerksick, L Kravitz, TA VanDusseldorp "Relationship Between Autophagy and Heat Shock Protein Response in Peripheral Blood Mononuclear Cells Following Resistance Exercise" *Human Nutrition & Metabolism* Manuscript in Preparation – 2022

# **External Funding**

<b>Funded</b> <b>Nutraceutical Corporation</b> Pharmacokinetic Analysis of Nutrient Absorption from a Novel Liposomal Multivitamin/mineral Formulation Role: Co-investigator (PI: Tinsley) Amount: \$159,341	August 2021 – August 2022
<b>8 POiNT, LLC</b> Evaluation of Novel Beverage Formulations for Hydration Enhancement in Humans Role: Co-investigator (PI: Tinsley) Amount: \$35,000	August 2021 – August 2022
<b>Legion Athletics, Inc.</b> Influence of Caffeinated and Non-caffeinated Pre-workout Supplements on Resistance Exercise Performance Role: Co-investigator and study coordinator (PI: Tinsley) Amount: \$20,000	December 2020 – August 2022
<b>8 POiNT, LLC</b> Evaluation of Novel Beverage Formulations for Hydration Enhancement in Humans: A Pilot Study Role: Co-investigator (PI: Tinsley) Amount: \$43,494	0d( 0 g/o379.65 234.07 (y) <b>T</b> JET0 g/T/TT0 12 T

The Effect of 13 Weeks of Fish Oil Supplementation on Hypertrophy, Physical Function, and the Muscle Protein Synthesis response to Feeding in the Elderly Role: Lead student investigator Amount: \$7,500

### **Invited, Professional Oral Presentations**

A Time for Gainz: Is There a Right Time to Train? – Featured Talk – ISSN Annual Conference – June 2023

Fast or Breakfast? Impact on Strength Training and Performance – Featured Talk – Congress of the International Society of Sports Nutrition ISSN – Colombia – November 2022

Intermittent Fasting: Physiological Responses, Cognitive and Practical Considerations in Intermittent Fasting Programs – Featured Talk – Congress of the International Society of Sports Nutrition ISSN – Colombia – November 2022 Foot-to-Foot Consumer Bioimpedance Analyzers: A Four-Compartment Model Comparison" International Journal of Exercise Science: Conference Proceedings. 2022;2(14). <u>https://digitalcommons.wku.edu/ijesab/vol2/iss14/3/</u>

- 3. GC DeHaven, MR Siedler, C Rodriguez, SJ White, AD Williams, PS Harty, **MT Stratton**, DS Keith, JJ Green, JR Boykin, GM Tinsley. "Comparison of Laboratory-Grade and Consumer-Grade Hand-to-Foot Bioelectrical Impedance Analyzers for Body Composition Estimation" International Journal of Exercise Science: Conference Proceedings. 2022;2(14). <u>https://digitalcommons.wku.edu/ijesab/vol2/iss14/11/</u>
- JJ Green, A Ambrosius, C Dodge, B Merfeld, C Khurelbaatar, M Carpenter, PS Harty, C Rodriguez, MR Siedler, MT Stratton, DS Keith, JR Boykin, AR Jagim, GM Tinsley. "Assessment of Youth Athlete Body Composition using Bioimpedance Techniques as Compared to a Three-Compartment Model" International Journal of Exercise Science: Conference Proceedings. 2022;2(14).

https://digitalcommons.wku.edu/ijesab/vol2/iss14/18/

- MR Siedler, C Rodriguez, MT Stratton, PS Harty, DS Keith, JJ Green, JR Boykin, SJ White, AD Williams, GC DeHaven, GM Tinsley. "A Between-sex Comparison of the Validity of Body Fat Percentage Estimates From Four Bioelectrical Impedance Analyzers" International Journal of Exercise Science: Conference Proceedings. 2022;2(14). <u>https://digitalcommons.wku.edu/ijesab/vol2/iss14/29/</u>
- PS Harty, A Ambrosius, C Dodge, B Merfeld, C Khurelbaatar, M Carpenter, MR Siedler, MT Stratton, C Rodriguez, JJ Green, DS Keith, JR Boykin, AR Jagim, GM Tinsley.
   "Body Composition Estimation in Youth Athletes: Agreement Between Two-Component Methods" International Journal of Exercise Science: Conference Proceedings. 2022;2(14). <u>https://digitalcommons.wku.edu/ijesab/vol2/iss14/50/</u>
- 7. MT Stratton, MR Siedler, PS Harty, C Rodriguez, JR Boykin, JJ Green, DS Keith, SJ White, G DeHaven, AD Williams, GM Tinsley. "The influence of caffeinated and non-caffeinated pre-workout supplements on resistance exercise performance." The International Society of Sports Nutrition Annual Conference, 2021
- 8. C Rodriguez, **MT Stratton**, MR Siedler, PS Harty, JR Boykin, JJ Green, DS Keith, SJ White, AD Williams, B DeHaven, GM Tinsley. "Influence of caffeinated and non-caffeinated pre-workout supplements on maximal and rapid isometric strength characteristics" The International Society of Sports Nutrition Annual Conference, 2021
- 9. JR Boykin, MT Stratton, MR Siedler, PS Harty, C Rodriguez, JJ Green, AD Williams, DS Keith, SJ White, B DeHaven, GM Tinsley. "Acute effects of caffeinated and non-caffeinated pre-workout supplement consumption on eccentric and concentric force production during an isokinetic squat exercise." The International Society of Sports Nutrition Annual Conference, 2021
- 10. JJ Green, PS Harty, **MT Stratton**, MR Siedler, C Rodriguez, JR Boykin, DS Keith, SJ White, B DeHaven, AD Williams, GM Tinsley. "Differential effects of caffeinated and stimulant-free pre-workout supplements on ratings of perceived energy, focus, and fatigue" The International Society of Sports Nutrition Annual Conference, 2021
- 11. M Lee, TA VanDusseldorp, M Alesi, J Easter, AR Bailly, **MT Stratton**, C Katsoudas, K Tran, GM Hester "Efficacy of an Enzymatically-Enhanced Spinach Supplement

- 21. TM Smith, PL Ha, AA Olmos, **MT Stratton**, TA VanDusseldorp, AR Bailly, Y Feito, ML Poisal, JA Jones, BE Dalton, GM Hester "Rate of force development parameters in young and older males during a chair rise" American College of Sports Medicine Southeast chapter regional conference, 2020
- 22. **MT Stratton**, P Harty, R Smith, C Rodriguez, A Williams, S White, J Dellinger, B Johnson, M Benavides, GM Tinsley. "A Comparison Between Alterations in Ultrasound derived Muscle Thickness and Dual-energy X-ray Absorptiometry Segmental Lean Mass". Journal of

Conference Proceedings. 2020;2(12). https://digitalcommons.wku.edu/ijesab/vol2/iss12/23

- 30. S White, P Harty, MT Stratton, J Dellinger, B Johnson, R Smith, A Williams, M Benavides, G Tinsley. "Tracking Resistance Training-Induced Changes in Body Composition via 3-Dimensional Optical Scanning". International Journal of Exercise Science: Conference Proceedings. 2020;2(12). <u>https://digitalcommons.wku.edu/ijesab/vol2/iss12/20</u>
- 31. P Harty, MT Stratton, B Johnson, J Dellinger, M Benavides, R Smith, S White, A Williams, C Rodriguez, G Tinsley "Influence of Subject Presentation on Body Composition Estimates from Dual-Energy X-Ray Absorptiometry, Air Displacement Plethysmography, and Bioelectrical Impedance Analysis". International Journal of Exercise Science: Conference Proceedings. 2020;2(12). https://digitalcommons.wku.edu/ijesab/vol2/iss12/68.

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- 39. A Franklin, Y Feito, T VanDusseldorp, T Esmat, MT Stratton, G. Mangine. "Aerobic and Anaerobic Differences Among Fitness Competitors and Physically-Active Adults" Journal of Strength & Conditioning Research. 2019; 34(1). https://journals.lww.com/nsca-jscr/Fulltext/2020/01000/Abstracts.33.aspx
  40. C Almeda, G Mangine, T VanDusseldorp, Y Feito, T Esmat, and MT Stratton. "Muscle Architecture and Quality Differences in Advanced and Recreational Level Fitness Competitors and Physically-Active Adults" Journal of Strength & Conditioning Research. 2019; 34(1). https://journals.lww.com/nsca-jscr/Fulltext/2020/01000/Abstracts.33.aspx
  41. MT Stratton, AA Olmos, PL Ha, AR Bailly, Mitrivi 31/21 584.42 Tf 58eW\*nBT0 g/TT0 12 Tf377.11 58

- 49. MJ Poisal, MT Stratton, AA Olmos, PL Ha, AR Bailly, JA Jones, BE Dalton, AN Haire, TA VanDusseldorp, Y Feito, GM Hester. "Relationship Between" (Poster Presentation: 2018 SEACSM Conference).
- 50. AA Olmos, PL Ha, MT Stratton, AR Bailly, MJ Poisal, JA Jones, BE Dalton, AN Haire, TA VanDusseldorp, Y Feito, GM Hester. "Contractile Parameters of the Knee Extensors in Young, Middle-Aged and Older Males." (Poster Presentation: 2018 SEACSM Conference).
- 51. MT Stratton, Y Feito, TA VanDusseldorp, TA Esmat, GT Mangine. "A Comparison of Four Methods of Determining Body Composition in Advanced and Recreational Fitness Athletes" Journal of Strength & Conditioning Research. 2019; 34(1). https://journals.lww.com/nsca-jscr/Fulltext/2019/02000/Abstracts.36.aspx

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59. AJ Holmes, TA VanDusseldorp, KA Escobar, KE Johnson, **MT Stratton**, T Moriarty, JJ McCormick, G Mangine, T Nunez, N Beltz, N Cole, M Endito, CM Kerksick, CM Mermier. "Six grams of fish oil supplementation mitigates perceived muscle soreness

Nutrients International Journal of Food Sciences and Nutrition Western Society of Kinesiology and Wellness

# **Laboratory Skills**

#### <u>Metabolism</u>

Parvo Medics Metabolic Cart

Resting Metabolic Rate Testing Maximal Exercise Testing

Performance Testing

Biodex System 4 Dynamometer

Knee Extensor Ankle Dorsiflexor Elbow Flexor

AMTI Portable Force Plate

Delsys Trigno Wireless EMG System

Acquisition Analysis

1080 Sprint

Vertec Vertical Jump Assessment

Wingate (Lode or similar)

**Body Composition Assessments** 

Ultrasound

#### LOGIQ S7 with XDclear Ultrasound

- o Muscle Cross Sectional Area
- Muscle Thickness
- o Echo Intensity

Musclesound Ultrasound

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Fit3D Sizestream Styku

Bioimpedance Technologies

Inbody o 770 o 570 o H20N Seca mBCA 515/514 Impedimed SFB7 RJL Quantum V

Dual-energy X-ray Absorptiometry

GE Prodigy GE iDXA

Air Displacement Plethysmography

Bodpod GS

Hydrostatic Weighing

Clinical Assessments

Stress Testing

Pulmonary Function Testing

Electrocardiography Preparation

Actigraph wGT3X-BT activity monitor

**Biochemical Assessments** 

Blood

Acquisition (phlebotomy) Plasma and serum aliquoting & storage Enzyme-Linked Immunosorbent Assay (ELISA)

Polymerase Chain Reaction (PCR)

Gel Electrophoresis

# Memberships

American College of Sports Medicine (ACSM)

International Society of Sports Nutrition (ISSN)	2017 - Present
National Strength and Conditioning Association (NSCA)	2017 - Present

# Certifications

American College of Sports Medicine	Sep 2021
Certified Exercise Physiologist (EP)	

**National Strength and Conditioning Association** Certified Strength and Conditioning Specialist (CSCS)

# **Dr. Gerald Mangine** Assistant Professor of Exercise Science Kennesaw State University

**Dr. Len Kravitz** Professor University of New Mexico (470) 578-3425 gmanine@kennesaw.edu

(505) 277-4136 lkravitz@unm.edu