

CURRICULUM VITAE

Danielle E. Levitt, PhD, CSCS*D

Current Title	Assistant Professor
Pronouns	She/her/hers
Business Address	Department of Kinesiology & Sport Management Texas Tech University 2500 Broadway, Box 43011 Lubbock, TX 79409
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Other names used	Danielle E. Levitt-Budnar (legal name)
Education & Training	
<i>Postdoctoral</i>	Louisiana State University Health Sciences Center, New Orleans, LA (2018 - 2022) Physiology
<i>Graduate</i>	University of North Texas, Denton, TX (2013 - 2018) MS, Kinesiology, 2013-2015 PhD, Biology/Exercise Physiology, 2014-2018
<i>Undergraduate</i>	The University of Texas at Dallas, Richardson, TX (2005 - 2009) BA, Psychology, 2005-2009

Academic, Professional, and Research Appointments

2022-present	Department of Kinesiology & Sport Management Texas Tech University Lubbock, TX	Assistant Professor
2018-2022	Department of Physiology Louisiana State University Health Sciences Center, New Orleans, LA	Postdoctoral Fellow
2020-2022	Department of Kinesiology, Health Promotion and Recreation University of North Texas, Denton, TX	Adjunct Faculty
2013-2018	Applied Physiology Laboratory University of North Texas Denton, TX	Graduate Research Assistant

2013-2018	Department of Kinesiology, Health Promotion and Recreation University of North Texas, Denton, TX	Graduate Teaching Fellow
2010-2013	Science Department Plano West Senior High School Plano, TX	Teacher (Physics 1, Pre-AP Physics 1, Anatomy & Physiology, Environmental Systems)

Certifications and Credentials

2016 – Present	Certified Strength and Conditioning Specialist – National Strength and Conditioning Association (NSCA); recertified with distinction (2017-present)
2014 – Present	Dual-energy X-ray Absorptiometry Authorized User – State of Texas
2011 – Present	Adult CPR, AED, and First Aid – American Red Cross
2010 – 2020	Texas Educator Certification (Composite science, grades 8-12)
2010 – Present	Performance Enhancement Specialist – National Academy of Sports Medicine
2010 – 2014	Certified Personal Trainer – National Academy of Sports Medicine
2003 – 2011, Present	Adult CPR, AED, and First Aid – American Heart Association

Membership in Professional Organizations

2024 – present	Texas Tech University Health Sciences Center (TTUHSC) Center of Excellence for Integrative Health (CEIH)
2023 – present	Texas Tech University STEM Center for Outreach, Research, & Education (Affiliate)
2022 – present	Texas Tech University Obesity Research Institute
2019 – present	National Hispanic Science Network <ul style="list-style-type: none"> • 2021-2023: Early Career Leadership Committee Co-Chair (basic sciences) • 2020-present: Conference Planning Committee member • 2019-present: Early Career Leadership Committee member
2018 – 2022	Postdoctoral Association, LSUHSC <ul style="list-style-type: none"> • 2019-2020: Vice President • 2018-2019: Secretary
2018 – 2022	Association for Women in Science - Southern Louisiana Chapter <ul style="list-style-type: none"> • 2020-2022: Postdoctoral Representative
2018 – present	American Association for the Advancement of Science
2018 – present	Research Society on Alcohol
2014 – present	National Strength and Conditioning Association
2014 – present	The American Physiological Society <ul style="list-style-type: none"> • 2023-2026: Endocrinology & Metabolism Section Councillor; Steering Committee member • 2021-2022: Physiology Educators Committee member • 2021-2022: Endocrinology & Metabolism Section Award Subcommittee • 2020: Endocrinology & Metabolism Trainee Advisory Committee Subcommittee member
2014 – present	American College of Sports Medicine, Texas Chapter
2013 – present	American College of Sports Medicine

Awards and Honors

2023	Best poster by a New Investigator (pre-tenure), Basic Sciences, National Hispanic Science Network annual meeting, Washington, DC
2022	Open Access Publication Initiative, Texas Tech University; \$1,000 awarded to offset open access publication fees
2022	First place oral and poster presentation, Featured Topic: Hot Topics in Muscle Physiology, sponsored by <i>Physiological Reports</i> , Experimental Biology 2022, Philadelphia, PA
2022	Martin Frank Diversity Travel Award, American Physiological Society

2022	Outstanding Young Scientist Travel Award, Association for Women in Science (AWIS)-Southern Louisiana Chapter
2019, 2021, 2022	Junior Investigator Award, Research Society on Alcoholism
2019	Martin Frank Diversity Travel Award, American Physiological Society
2017 – 2018	Peggy Richardson Scholarship, Department of Kinesiology, Health Promotion, and Recreation (KHPR), University of North Texas
2017	National Graduate Student Writing Award Honorable Mention, American Kinesiology Association
2017	Manuscript Award (3 rd place), Annual Meeting of the American College of Sports Medicine – Texas Chapter
2017	Travel Award, Toulouse Graduate School, University of North Texas
2016 – 2017	Victor and Flo Rodriguez Scholarship, Department of KHPR, University of North Texas
2016 – 2017	NSCA Women's Scholarship, National Strength and Conditioning Association
2016	College of Education 2015 Outstanding Thesis Award
2016	Manuscript Award (2 nd place), Annual Meeting of the American College of Sports Medicine – Texas Chapter
2016	Teaching Fellow of the Year (university level), University of North Texas
2015 – 2018	Ken Bahnsen Scholarship, Department of KHPR, University of North Texas
2015 – 2017	Travel Award (annually), College of Arts and Sciences, University of North Texas
2015 – 2016	NSCA Challenge Scholarship, National Strength and Conditioning Association
2015 – 2016	Victor and Flo Rodriguez Scholarship, Department of KHPR, University of North Texas
2015, 2016	Teaching Fellow of the Year (departmental level), Department of KHPR, University of North Texas
2015	Membership Poster Award, Annual Meeting of the American College of Sports Medicine – Texas Chapter
2015	Travel Award, Federation of American Societies for Experimental Biology (FASEB) Maximizing Access to Research Careers (MARC) program
2014 – 2017	Travel Award (annually), College of Education, University of North Texas
2014 – 2015	Graduate Assistance Tuition Scholarship, Department of KHPR, University of North Texas
2014	Jess E. Cearley Award in Kinesiology, Department of KHPR, University of North Texas
2010 – 2011	Beginning Teacher of the Year, Plano West Senior High School
2005 – 2009	Academic Excellence Scholarship (full tuition + stipend), University of Texas at Dallas

RESEARCH AND SCHOLARSHIP

Grants and Contracts

****mentee grant support**

Active

R01 AG084597-01 (**Levitt**/Luk [multi-PI]) 8/1/2024-7/31/2029
NIH/NIA [ESI R01] \$3,501,732

Glycemic control and frailty risk in older people at risk for type 2 diabetes: Impact of local heat therapy

The goal of this project is to test local heat therapy as an alternative method to improve muscle architecture, glycemic control, and subsequent exercise adaptations, and decrease frailty risk in older adults with prediabetes, with TRPV1 as an underlying mechanism.

ORS proposal #23-0477

Role: Principal Investigator (45%)

Impact score: **36**

Percentile ranking: **16%**

Young Investigator Grant (**Levitt**) 9/1/2024-8/31/2026
National Strength and Conditioning Association Foundation \$24,000

Resveratrol-mediated changes in extracellular vesicle microRNA cargo as a novel contributor to resistance training-induced skeletal muscle adaptations in older adults

The goal is to determine resistance training- and resveratrol-mediated changes in the miRNA profile of circulating extracellular vesicles and their relationship with muscle strength and hypertrophy adaptations in older adults.

ORS proposal #24-0590

Role: Principal Investigator (50%)

Center of Excellence for Translational Neuroscience and Therapeutics (Singer) 2/1/2024-1/31/2025
TTUHSC Seed Funding \$30,000

Neural correlates and biological markers of pre-death grief and psychosocial distress in persons with life limiting illnesses and their family caregivers

The goal of this project is to determine improvements in psychosocial stress and associated physiological markers in persons with Alzheimer's disease and related dementias and their caregivers after a respite intervention.

Role: Co-Investigator (25%)

TrUE Transformers Program (**Levitt/Lochbaum [multi-PI]**) 2/15/2024-11/30/2024
Center for Transformative Undergraduate Education (TrUE) \$5,000

Understanding the relationship among substance (mis)use (alcohol and cannabis), physical activity, and physiological and psychological stress in college students

The goal of this undergraduate-focused project is to understand substance use patterns in college students with varying levels of physical activity engagement and stress, and how physiological and psychological indicators of stress resilience differ among physically fit students who use these substances.

Role: Principal Investigator (50%)

College of Arts and Sciences Undergraduate Research Experience (**Levitt**) 9/1/2023-08/31/2024
Texas Tech University \$2,000

Metabolomic signature of EtOH-treated skeletal muscle precursor cells

The goal of this project is to determine ethanol-induced differences in the metabolomic signature of C2C12 myoblasts and myotubes. Additionally, the undergraduate student leading the project (Matthew DiLeo) will gain experience in all aspects of the research process.

Role: Principal Investigator (100%)

24AIREA1191995 (Vellers) 1/1/2024-12/31/2025
American Heart Association \$154,000

Mitochondrial DNA signatures of poor aerobic exercise trainability in young adults born preterm

The goal of this project is to test the hypothesis that adults born very preterm (≤ 32 weeks gestational age) will have unique mitochondrial DNA (mtDNA) variants/mutations and that aerobic exercise training will decrease peripheral blood mononuclear cell (PBMC) mtDNA heteroplasmy, copy number, and oxidative capacity compared to normal-term birth (NTB) adults.

ORS proposal #24-0010

Role: Collaborating Investigator (20%)

R25 DA050687 (Valdez) 4/1/2020-3/31/2025
NIH/NIDA and NIH/NIAAA \$264,017

Enhanced Interdisciplinary Research Training Institute (eIRTI) on Hispanic Drug Abuse

The goal of this program is to strengthen the research pipeline by increasing the number of independently funded Hispanic investigators that have gone underrepresented in substance abuse and addiction research.

Role: Fellow, June 2023-May 2025

Completed

Office of Research and Innovation Funding Requests (**Levitt/Vellers**) 9/1/2023-8/31/2024

Texas Tech University <i>Seahorse XF Pro and Cytation C10</i> Together with Departmental and College contributions of \$100,000 each, these funds are dedicated to purchasing a Seahorse XF Pro and Cytation C10 to improve our capabilities to perform cell metabolism research. Application ID: Assistant Professor (006511) Role: Principal Investigator (50%)	\$150,172
Student Research Development Award (Levitt/Newman**) American College of Sports Medicine, Texas Chapter <i>Alcohol-mediated changes in myoblast and myotube HIF-1α protein expression: Relationship with decreased regenerative capacity</i> The goal of this project is to test whether alcohol decreases HIF-1 α expression in myoblasts and myotubes in association with decreased regenerative capacity. ORS proposal #23-0543 Role: Principal Investigator (100%)	6/1/2023-5/31/2024 \$1,000
College of Arts and Sciences Undergraduate Research Experience (Levitt) Texas Tech University <i>Alcohol-mediated decreased myoblast proliferation: Cell death or slowed cell division?</i> The goal of this project is to determine whether alcohol-mediated decreased myoblast proliferation is due to increased cell death, decreased rate of cell division, or a combination thereof. Additionally, the undergraduate student leading the project (Rylea Helmberger) will gain experience in all aspects of the research process. Role: Principal Investigator (100%)	9/1/2022-08/31/2023 \$2,000
UH3 AA026198 (Molina) NIH/NIAAA <i>Alcohol & Metabolic Comorbidities in PLWHA; Evidence-Driven Interventions</i> The goal is to test the prediction that at-risk alcohol among people living with HIV increases risk for impaired glucose tolerance and dysfunctional skeletal muscle metabolic phenotype. Prospective studies test the efficacy of an exercise intervention in improving glycemic control. Role: Postdoctoral Trainee , December 2021-June 2022	09/15/2017–08/31/2022 \$352,438/year
F32 AA027982-01A1 (Levitt) NIH/NIAAA <i>Alcohol-induced skeletal muscle dysregulation in SIV/HIV: Mitochondrial-mediated mechanisms</i> The goal was to test PGC-1 β as a mechanism for alcohol-induced mitochondrial dysfunction in SIV/HIV. Role: Principal Investigator	12/01/2019–11/30/2021 \$127,616
T32 AA007577 (Molina) NIH/NIAAA <i>Biomedical Alcohol Research Training Program</i> The goal is to educate and train pre and postdoctoral fellows for careers as independent scientists in the field of alcohol research. Role: Postdoctoral Trainee , July 2018-November 2019	09/01/2009–11/30/2019 \$402,449/year
Graduate Research Grant-Doctoral (Levitt) National Strength and Conditioning Association Foundation <i>The effect of post-exercise alcohol consumption on resistance exercise-induced mTOR pathway signaling and protein synthesis</i> The goal was to investigate the alcohol-mediated changes in resistance exercise-induced increases in signaling downstream of mTORC1 and 24-hour muscle protein synthesis in men. Role: Principal Investigator	09/01/2016-08/31/2018 \$15,000

Student Research Development Award (Levitt) American College of Sports Medicine, Texas Chapter <i>Effect of alcohol ingestion after heavy resistance exercise on upstream inhibitors of mTOR signaling in men</i> The goal was to investigate the alcohol-mediated changes in activation state of inhibitors upstream of mTORC1 after resistance exercise in men. Role: Principal Investigator	09/01/2016-08/31/2017 \$1,500
Graduate Research Grant-Masters (Levitt) National Strength and Conditioning Association Foundation <i>Post-exercise alcohol, muscular performance, and cytokine response in women</i> The goal was to investigate the effect of alcohol after muscle-damaging exercise on strength recovery and changes in inflammatory capacity in women. Role: Principal Investigator	09/01/2014-08/31/2016 \$7,434
Student Research Development Award (Levitt) American College of Sports Medicine, Texas Chapter <i>The effect of alcohol ingestion on the resistance exercise induced immune response in women</i> The goal was to investigate the effect of alcohol after heavy resistance exercise on changes in inflammatory capacity in women. Role: Principal Investigator	09/01/2014-08/31/2015 \$500
Thesis Support Grant (Levitt) College of Education, University of North Texas <i>Post-exercise alcohol, muscular performance, and cytokine response in women</i> The goal was to investigate the effect of alcohol after muscle-damaging exercise on changes in inflammatory capacity in women. Role: Principal Investigator	09/01/2014-08/31/2015 \$1,000
Submitted (in review)	
One Health Innovation Seed Funding Program (Onyango) Texas Tech University <i>Assessing the impact of diet on susceptibility to dengue virus infection</i> The goal of this project is to test whether consuming a western-style diet increases, whereas an African-style diet decreases, susceptibility to dengue virus infection through changes in translation and cell metabolism. Role: Co-Principal Investigator (26.5%)	9/1/2024-3/1/2026 \$100,000
Industry product testing proposal JYM Supplement Science <i>Alpha JYM X supplementation to support testosterone production in men with symptoms of hypogonadism</i> The goal of this project is to assess, via a double-blind, randomized, placebo-controlled trial, the effectiveness of Alpha JYM X supplementation to increase testosterone levels and improve symptoms associated with hypogonadism in males aged 35-65. ORS proposal #24-1033 Role: Principal Investigator (75%) Status: Revised and resubmitted per company requests; under consideration for funding	7/1/2024-8/31/2025 \$211,653
R21 AA032372-01 (Levitt) NIH/NIAAA <i>Skeletal muscle-pancreas axis: Opposing roles of alcohol & exercise</i> The goal of this project is to test alcohol-mediated alterations to microRNA cargo in extracellular vesicles secreted from skeletal muscle as a mechanism underlying impaired β cell function, and the efficacy of exercise to ameliorate these effects via improved skeletal muscle-endocrine pancreas communication. ORS proposal #24-1064	4/1/2025-3/31/2027 \$453,750

Role: Principal Investigator (95%)

Selected for funding but declined

APS Postdoctoral Fellowship Grant (**Levitt**) 11/01/2019-10/31/2020
The American Physiological Society \$50,000

Mechanisms of alcohol-induced skeletal muscle mitochondrial dysfunction

The goal of this project was to identify the mechanisms by which alcohol dysregulates SKM mitochondrial function including mitochondrial machinery and dynamics.

This grant was declined because conditions of the award disallowed a concurrent similar fellowship including stipend (e.g., NIH F32).

Role: Principal Investigator

Not funded

Graduate Student Research Grant- Doctoral (Khartabil/**Levitt**) 9/1/2024-8/31/2025
National Strength and Conditioning Association Foundation \$15,000

Binge alcohol following exercise-induced muscle damage: Impacts on myogenic progression and neuromuscular performance recovery

The goal is to determine whether binge alcohol after exercise-induced muscle damage delays myogenic progression and recovery of neuromuscular performance in resistance-trained men and women.

ORS proposal #24-0591

Role: Faculty Mentor/Principal Investigator (100%)

Human Nutrition Program Pre-Proposal (**Levitt**) 9/1/2024-8/31/2026
National Cattlemen's Beef Association (NCBA) – Beef Checkoff \$286,700

Supplementing dietary beef protein with ammonium hydroxide in individuals with alcohol misuse to improve cardiometabolic health via gut microbiome changes

The goal is to analyze changes in the gut microbiome and correlate these changes to improved cardiometabolic health among people with alcohol misuse using dietary modification with ammoniated beef protein.

Pre-proposal #2464

Role: Principal Investigator (60%)

R01 AG084597-01A1 (**Levitt/Luk [multi-PI]**) 7/1/2024-6/30/2029
NIH/NIA [ESI R01] \$3,901,331

Glycemic control and frailty risk in older people at risk for type 2 diabetes: Impact of local heat therapy

The goal of this project is to test local heat therapy as an alternative method to improve muscle architecture, glycemic control, and subsequent exercise adaptations, and decrease frailty risk in prediabetic older adults, with TRPV1 as an underlying mechanism. This version of the proposal (resubmission) was withdrawn because the initial submission was funded.

ORS proposal #23-0091

Role: Principal Investigator (47%)

Impact score: **68**

Percentile ranking: **55%**

NIFA 2023-08867; GRANT13963452 (**Levitt**) 6/1/2024-5/31/2029
USDA NIFA AFRI \$999,997

Ammonium-enhanced protein plus strength training to decrease risk for sarcopenia and osteoporosis among older Latinas in the South Plains

The goal of this project is to test the hypothesis that the combination of alkalized beef and strength training will decrease sarcopenia and osteoporosis risk more than conventional beef and strength training in older Latinas,

and to train future biomedical scientists in designing and implementing nutrition and exercise interventions in underserved groups.

ORS proposal #23-1253

Role: Principal Investigator (60%)

Decision: High-priority, not funded

Young Investigator Grant (**Levitt**)

9/1/2023-8/31/2025

National Strength and Conditioning Association Foundation

\$24,000

Resveratrol-mediated changes in extracellular vesicle microRNA cargo as a novel contributor to resistance training-induced skeletal muscle adaptation in older adults

The goal is to determine resistance training- and resveratrol-mediated changes in the miRNA profile of circulating extracellular vesicles and their relationship with muscle strength and hypertrophy adaptations in older adults.

ORS proposal #23-0631

Role: Principal Investigator (50%)

Directed Research Grant (**Levitt**)

9/1/2023-8/31/2025

National Strength and Conditioning Association Foundation

\$25,000

Resveratrol-mediated changes in extracellular vesicle microRNA cargo as a novel contributor to resistance training-induced skeletal muscle adaptation in older adults

The goal is to determine resistance training- and resveratrol-mediated changes in the miRNA profile of circulating extracellular vesicles and their relationship with muscle strength and hypertrophy adaptations in older adults.

ORS proposal #23-0632

Role: Principal Investigator (50%)

Proposal #23-0495 (Figueroa)

5/1/2023-7/31/2024

National Watermelon Promotion Board

\$48,406

Watermelon rind supplementation to improve endothelial function and aortic blood pressure in postmenopausal women with prehypertension

The goal is to determine whether daily supplementation with watermelon rind will improve factors that contribute to cardiovascular risk in postmenopausal women with prehypertension.

Role: Co-Principal Investigator (50%)

K99 AA029756 (**Levitt**)

09/01/2021-8/31/2026

NIH/NIAAA

\$999,806

Skeletal muscle-pancreas axis: Opposing roles of alcohol and exercise

This project tests the hypothesis that at-risk alcohol use alters skeletal muscle extracellular vesicle microRNA cargo contributing to impaired β cell function, and that exercise ameliorates these effects.

Role: Principal Investigator (100%)

Publications

Journal Articles (Refereed; 48 total)

✉Corresponding author

1. Bourgeois, BL, Gallegos, EM, **Levitt, DE**, Bergeaux, P, Molina, PE, and Simon, L. (2024). Extracellular vesicle miR-206 improves chronic binge alcohol mediated decreased myoblast differentiation in SIV-infected female macaques. *American Journal of Physiology-Cell Physiology*. Ahead-of-print. PMID: 39099419. DOI: 10.1152/ajpcell.00290.2024.
2. Dobson, NL, **Levitt, DE**, Luk, H-Y, and Vellers, HL. (2024). Adverse skeletal muscle adaptations in individuals born preterm-A comprehensive review. *Current Issues in Molecular Biology*. 46(5):4551-4564. PMID: 38785544. DOI: 10.3390/cimb46050276.

3. Mirzayev, J, and **Levitt, DE**[✉]. (2024). Comparison of muscle adaptation to blood flow-restricted versus traditional resistance training in healthy adults: A brief systematic review and meta-analysis. *Strength and Conditioning Journal*. Ahead-of-print. PMID: forthcoming. DOI: 10.1519/SSC.0000000000000854.
4. **Levitt, DE**, Bourgeois, BL, Rodríguez-Graciani, KM, Molina, PE, and Simon, L. (2024). Alcohol impairs bioenergetics and differentiation capacity of myoblasts from SIV-infected female macaques. *International Journal of Molecular Sciences*. 25(4):2448. PMID: 38397125. DOI: 10.3390/ijms25042448.
5. Simon, L, Primeaux, SD, **Levitt, DE**, Bourgeois, B, Johannsen, NM, Peters, A, Ahmed, J, Marshall, RH, Fairchild, AH, Ferguson, TF, and Molina, PE. (2023). An aerobic exercise intervention to improve metabolic health among people living with HIV with at-risk alcohol use: The ALIVE-Ex research study protocol. *AIDS Research and Therapy*. 20(1):35. PMID: 37296413. DOI: 10.1186/s12981-023-00530-2.
6. Selmi, O, **Levitt, DE**[✉], Aydi, B, Ferhi, W, and Bouassida, A. (2023). Verbal encouragement improves game intensity, technical aspects, and psychological responses during soccer-specific training. *International Journal of Sports Physiology and Performance*. 18(7):758-764. PMID: 37116896. DOI: 10.1123/ijsp.2022-0435.
7. Selmi, O, Ouerghi, I, Muscella, A, **Levitt, DE**, Suzuki, K, and Bouassida, AN. (2023). Monitoring mood state to improve performance in soccer players: A brief review. *Frontiers in Psychology*. 14:627. PMID: 36910823. DOI: 10.3389/fpsyg.2023.1095238.
8. **Levitt, DE**[✉], Luk, H-Y, and Vingren, JL. (2023). Alcohol, resistance exercise, and mTOR pathway signaling: An evidence-based narrative review. *Biomolecules. Special Issue: Molecular Biology of Skeletal Muscle Regeneration and Adaptation*. 13(1):2. PMID: 36671386. DOI: 10.3390/biom13010002.
9. Bourgeois, BL, **Levitt, DE**, Molina, PE, and Simon, L. (2023). Differential expression of adipocyte and myotube extracellular vesicle miRNA cargo in chronic binge alcohol-administered SIV-infected male macaques. *Alcohol*. 108:1-9. PMID: 36351490. DOI: 10.1016/j.alcohol.2022.11.001.
10. Vingren, JL, Boyett, JC, Lee, EC, **Levitt, DE**, Luk, HY, McDermott, BP, Munoz, CX, Ganio, MS, Armstrong, LE, and Hill, DW. (2023). A single dose of ibuprofen impacts IL-10 response to 164-km road cycling in the heat. *Research Quarterly for Exercise and Sport*. 94(2):344-350. PMID: 35344476. DOI: 10.1080/02701367.2021.1981539.
11. Selmi, O, **Levitt, DE**, Ouerghi, I, Aydi, B, Bouassida, A, Weiss, K, and Knechtle, B. (2022). Effect of intensified training camp on psychometric status, mood state, and hematological markers in youth soccer players. *Children*. 9(12):1996. PMID: 36553439. DOI: 10.3390/children9121996.
12. **Levitt, DE**, Simon, L, Lin, H-Y, Siggins, RW, Ferguson, TF, Molina, PE, and Welsh, DA. (2022). Alcohol use, physical activity and muscle strength moderate the relationship between body composition and frailty risk among people living with HIV. *Alcoholism: Clinical and Experimental Research*. 46(11):2041-2053. PMID: 36124866. DOI: 10.1111/acer.14941.
13. McTernan, PM, **Levitt, DE**, Welsh, DA, Simon, L, Siggins, RW, and Molina, PE. (2022). Alcohol impairs immunometabolism and promotes pro-inflammatory CD4+ T cell differentiation. *Frontiers in Immunology*. 13:839390. PMID: 35634279. DOI: 10.3389/fimmu.2022.839390.
14. Selmi, O, **Levitt, DE**, Clemente, FM, Nobari, H, My, G, Marsigliante, S, Muscella, A, and Bouassida, A. (2022). A practical approach to assessing physical freshness: Development of perceived physical freshness status scale. *International Journal of Environmental Research and Public Health. Special Topic: New Insights and Perspectives of Controlling the Physical Activity Load: Sports Performance and Health*. 19(10):5836. PMID: 35627372. DOI: 10.3390/ijerph19105836.
15. Luk, H-Y, Jiwan, NC, Appell, CR, **Levitt, DE**, and Vingren, JL. (2022). Sex specific mitochondrial dynamics and mitophagy response to muscle damage. *Physiological Reports*. 10(10):e15230. PMID: 35611770. DOI: 10.14814/phy2.15230.
16. Selmi, O, **Levitt, DE**, Muscella, A, Ouerghi, N, Issaoui, I, Abassi, W, Hill, L, Rosemann, T, Bouassida, A, and Knechtle, B. (2022). Effect of two incremental intensity field tests on wellness indices, recovery state,

- and physical enjoyment in soccer players. *European Review for Medical and Pharmacological Sciences*, 26(7): 2279-2287. PMID: 35442482. DOI: 10.26355/eurrev_202204_28457.
17. Osna, NA, New-Aaron, M, Dagur, RS, Thomes, P, Simon, L, **Levitt, D**, McTernan, P, Molina, PE, Choi, HY, Machida, K, Sherman, KE, Riva, A, Phillips, S, Choksi, S, Kharbanda, KK, Weinman, S, and Ganesan, M. (2022). A review of alcohol-pathogen interactions: New insights into combined disease pathomechanisms. *Alcoholism: Clinical and Experimental Research*, 46(3):359-370. PMID: 35076108. DOI: 10.1111/acer.14777.
 18. Bourgeois, BL, Lin, H-Y, Yeh, AY, **Levitt, DE**, Primeaux, SD, Ferguson, TF, Molina, PE, and Simon, L. (2022). Unique circulating microRNA associations with dysglycemia in people living with HIV and alcohol use. *Physiological Genomics*, 54(1):36-44. PMID: 34859690. DOI: 10.1152/physiolgenomics.00085.2021.
 19. Shaw, AG, Chae, S, **Levitt, DE**[□], Nicholson, JL, Vingren, JL, and Hill, DW. (2022). Effect of previous-day alcohol ingestion on muscle function and performance of severe-intensity exercise. *International Journal of Sports Physiology and Performance*. 17(1):44-49. PMID: 34225252. DOI: 10.1123/ijspp.2020-0790.
 20. Luk, H-Y, Appell, C, **Levitt, DE**, Jiwan, N, and Vingren, JL. (2021). Differential autophagy response in men and women after muscle damage. *Frontiers in Physiology*. 12:752347. PMID: 34899384. DOI: 10.3389/fphys.2021.752347.
 21. **Levitt, DE**, Ferguson, TF, Primeaux, SD, Zavala, JA, Ahmed, J, Marshall, RH, Simon, L, and Molina, PE. (2021). Skeletal muscle bioenergetic health and function in people living with HIV: Association with glucose tolerance and alcohol use. *American Journal of Physiology-Regulatory, Integrative and Comparative Physiology*. 321(5): R781-R790. PMID: 34585616. DOI: 10.1152/ajpregu.00197.2021.
 22. Simon, L, Torres, D, Saravia, A, **Levitt, DE**, Vande Stouwe, C, McGarrah, H, Coleman, L, Schumacher, J, Dufour, JP, Amedee, AM, and Molina, PE. (2021). Chronic binge alcohol and ovariectomy-mediated impaired insulin responsiveness in SIV-infected female rhesus macaques. *American Journal of Physiology-Regulatory, Integrative and Comparative Physiology*. 321(5): R699-R711. PMID: 34524906. DOI: 10.1152/ajpregu.00159.2021.
 23. Primeaux, SD, Simon, L, Ferguson, TF, **Levitt, DE**, Brashear, MM, Yeh, A, and Molina PE. (2021). Alcohol use and dysglycemia among people living with HIV in the ALIVE-Ex Study. *Alcoholism: Clinical and Experimental Research*. 45:1735-1746. PMID: 34342022. DOI: 10.1111/acer.14667.
 24. **Levitt, DE**, Molina, PE, and Simon, L. (2021). Pathophysiological mechanisms of alcoholic myopathy: Lessons from rodent models. *Journal of Veterinary and Animal Sciences*. 52(2): 107-116. DOI: 10.51966/jvas.2021.52.2.107-116.
 25. Selmi, O, Ouerghi, I, **Levitt, DE**, Marzouki, H, Knechtle, B, Nikolaidis, PT, and Bouassida, A. (2021). Training, psychometric status, biological markers and neuromuscular fatigue in soccer. *Biology of Sport*. 39(2): 319-327. PMID: 35309535. DOI: 10.5114/biolsport.2022.104065.
 26. Luk, H-Y, **Levitt, DE**, Appell, C, and Vingren, JL. (2021). Sex dimorphism in muscle damage-induced inflammation. *Medicine & Science in Sports & Exercise*, 53(8):1595-1605. PMID: 34261990. DOI: 10.1249/MSS.0000000000002628.
 27. Selmi, O, Goncalves, B, Ouerghi, I, **Levitt, DE**, Sampaio, J, and Bouassida, A. (2021). Influence of well-being indices and recovery state on the technical and physiological aspects of play during small-sided games. *Journal of Strength and Conditioning Research*. PMID: 31403575. DOI: 10.1519/JSC.0000000000003228.
 28. Selmi, O, Ouerghi, I, **Levitt, DE**, and Bouassida, A. (2020). Small-sided games are more enjoyable than high-intensity interval training of similar exercise intensity in soccer. *Open Access Journal of Sports Medicine*. 11: 77-84. PMID: 32210645. DOI: 10.2147/OAJSM.S244512.
 29. **Levitt, DE**, Yeh, AY, Prendergast, MJ, Budnar, Jr., RG, Adler, KA, Cook, G, Molina, PE, and Simon, L. (2020). Chronic alcohol dysregulates skeletal muscle myogenic gene expression after hind limb immobilization in female rats. *Biomolecules*. 10(3): E441. PMID: 32178412. DOI: 10.3390/biom10030441.

30. **Levitt, DE**, Idemudia, NO, Cregar, CM, Duplanty, AA, Hill, DW, and Vingren, JL. (2020). Alcohol after resistance exercise does not affect muscle power recovery. *Journal of Strength and Conditioning Research*. 34(7): 1938-1944. PMID: 29385007. DOI: 10.1519/JSC.0000000000002455.
31. Ouerghi, I, Paolo Ardigò, L, Selmi, O, **Levitt, DE**, Chtourou, H, Bouassida, A, Bouhlel, E, and Franchini, E. (2020). Changes in perceived exertion, well-being, and recovery during specific judo training: Impact of training period and exercise modality. *Frontiers in Physiology*. 11: 931. PMID: 32922306. DOI: 10.3389/fphys.2020.00931.
32. **Levitt, DE**, Chalapati, N, Prendergast, MJ, Simon, L, and Molina, PE. (2020). Ethanol-impaired myogenic differentiation is associated with decreased myoblast glycolytic function. *Alcoholism: Clinical and Experimental Research*. 44(11): 2166-2176. PMID: 32945016. DOI: 10.1111/acer.14453.
33. Selmi, O, Ouerghi, I, Castellano, J, **Levitt, D**, and Bouassida, A. (2020). Effect of an intensified training period on well-being indices, recovery and psychological aspects in professional soccer players. *European Review of Applied Psychology*. 70(6): 100603. DOI: 10.1016/j.erap.2020.10060-3.
34. Ouerghi, I, Franchini, E, Selmi, O, **Levitt, DE**, Chtourou, H, Bouhlel, E, and Paolo Ardigò, L. (2020). Relationship between perceived training load, well-being indices, recovery state and physical enjoyment during judo-specific training. *International Journal of Environmental Research and Public Health*. 17(20), 7400. PMID: 33050671. DOI: 10.3390/ijerph17207400.
35. Luk, H-Y, **Levitt, DE**, Boyett, JC, Rojas, S, Flader, S, McFarlin, BK, and Vingren, JL. (2019). Resistance exercise-induced hormonal response promotes satellite cell proliferation in untrained men but not in women. *American Journal of Physiology- Endocrinology and Metabolism*. 317(2): E421-E432. PMID: 31237450. DOI: 10.1152/ajpendo.00473.2018.
36. **Levitt, DE**, Adler, KA, and Simon, L. (2019). HEMA 3 staining: A simple alternative for the assessment of myoblast differentiation. *Current Protocols in Stem Cell Biology*, 51: e101. PMID: 31756292. DOI: 10.1002/cpsc.101.
37. Vingren, JL, Curtis, JH, **Levitt, DE**, Duplanty, AA, Lee, EC, McFarlin, BK, and Hill, DW. (2018). Adding resistance training to the standard of care for inpatient substance abuse treatment in men with human immunodeficiency virus improves skeletal muscle health without altering cytokine concentrations. *Journal of Strength and Conditioning Research*, 32(1): 76-82. PMID: 29257793. DOI: 10.1519/JSC.0000000000002289.
38. Duplanty, AA, **Levitt, DE**, Hill, DW, McFarlin, BK, DiMarco, NM, and Vingren, JL. (2018). Resistance training is associated with higher bone mineral density among young adult male distance runners independent of physiological factors. *Journal of Strength and Conditioning Research*. 32(6): 1594-1600. PMID: 29470364. DOI: 10.1519/JSC.0000000000002504.
39. Duplanty, AA, Budnar, RG, Luk, HY, **Levitt, DE**, Hill, DW, McFarlin, BK, Huggett, DB, and Vingren, JL. (2017). Effect of acute alcohol ingestion on resistance exercise induced mTORC1 signaling in human muscle. *Journal of Strength and Conditioning Research*, 31(1): 54-61. PMID: 27135475. DOI: 10.1519/JSC.0000000000001468.
40. Henning, AL, **Levitt, DE**, Vingren, JL, and McFarlin, BK. (2017). Measurement of T-cell telomere length using amplified-signal FISH staining and flow cytometry. *Current Protocols in Cytometry*, 79(1):7.47.1-7.47.10. PMID: 28386694. DOI: 10.1002/cpcy.11. PMID: 28055115. DOI: 10.1002/cpcy.11.
41. **Levitt, DE**, Luk, HY, Duplanty, AA, Hill, DW, McFarlin, BK, and Vingren, JL. (2017). Effect of alcohol after muscle damaging resistance exercise on muscular performance recovery and inflammatory capacity in women. *European Journal of Applied Physiology*, 117(6): 1195-1206. PMID: 28386694. DOI: 10.1007/s00421-017-3606-0.
42. Kupchak, BR, Kazman, JB, Vingren, JL, **Levitt, DE**, Lee, EC, Oliver Chen, CY, Williamson, KH, Armstrong, LE, Deuster, PA. (2017). Blood hemostatic changes during an ultra-endurance road cycling event in a hot environment. *Wilderness & Environmental Medicine*, 28(3): 197-206. PMID: 28739377. DOI: 10.1016/j.wem.2017.05.002.

43. **Levitt, DE**, Duplanty, AA, Budnar, Jr., RG, Luk, HY, Fernandez, A, Layman, TJ, Fancher, DL, Hill, DW, McFarlin, BK, and Vingren, JL. (2016). The effect of post-resistance exercise alcohol ingestion on lipopolysaccharide-stimulated cytokines. *European Journal of Applied Physiology*, 116: 311-318. PMID: 26501345. DOI: 10.1007/s00421-015-3278-6.
44. Luk, HY, McKenzie, AL, Duplanty, AA, Budnar, RG, **Levitt, D**, Fernandez, A, Lee, EC, Armstrong, LE, and Vingren, JL. (2016). Leukocyte subset changes in response to a 164-km road cycle ride in a hot environment. *International Journal of Exercise Science*, 9(1): 34-46. PMID: 27293505.
45. Donahue, RB, Vingren, JL, Duplanty, AA, **Levitt, DE**, Luk, HY, and Kraemer, WJ. (2016). Acute effect of whole-body vibration warm-up on footspeed quickness. *Journal of Strength and Conditioning Research*, 30(8): 2286-2291. PMID: 27328378. DOI: 10.1519/JSC.0000000000001014.
46. Luk, HY, **Levitt, DE**, Lee, EC, Ganio, MS, McDermott, BP, Kupchak, BR, McFarlin, BK, Hill, DW, Armstrong, LE, and Vingren, JL. (2016). Pro- and anti-inflammatory cytokine responses to a 164-km road cycle ride in a hot environment. *European Journal of Applied Physiology*, 116(10): 2007-2015. PMID: 27522585. DOI: 10.1007/s00421-016-3452-5.
47. **Levitt, DE**, Jackson, AW, and Morrow, Jr., JR. (2016). An analysis of the medical costs of obesity for fifth graders in California and Texas. *International Journal of Exercise Science*, 9(1): 26-33. PMID: 27293504.
48. Vingren, JL, Budnar, Jr., RG, McKenzie, AL, Duplanty, AA, Luk, HY, **Levitt, DE**, and Armstrong, LE. (2016). The acute testosterone, growth hormone, cortisol, and interleukin-6 response to 164-km road cycling in a hot environment. *Journal of Sports Sciences*, 34(8): 694-699. PMID: 26199143. DOI: 10.1080/02640414.2015.1068440.

Book Chapters (1 total)

1. Bourgeois, BL, **Levitt, DE**, Molina, PE, and Simon, L. (2022). Chronic alcohol and skeletal muscle. In: Patel, VB, Preedy, VR (eds). *Handbook of Substance Misuse and Addictions*. Springer, Cham. DOI: 10.1007/978-3-030-67928-6_49-1. ISBN (online): 978-3030-92392-1. ISBN (print): 978-3-030-92391-4.

Manuscripts under review (5 total)

✉Corresponding author

1. **Levitt, DE**✉, Khartabil, AL, Helmlinger, RE, DiLeo, MR, Mills, CJ, Williams, AK, and Budnar, Jr., RG. (under review). Using computer vision libraries to streamline nuclei quantification: A validation study. *Current Protocols in Cytometry: Cellular and Molecular Imaging*.
2. **Levitt, DE**✉, Wohlgemuth, KJ, Burnham, EF, Conner, MJ, Collier, JJ, and Mota, JA. (in revision). Alcohol misuse increases cardiometabolic risk among firefighters. *Alcohol: Clinical and Experimental Research*.
3. Ardigo, LP, Clemente, FM, Moreno-Villanueva, A, Oliva-Lozano, JM, **Levitt, DE**, and Rico-Gonzalez, M. (under review). Distance-based match demands by playing position in soccer's major leagues: A systematic review. *Journal of Strength and Conditioning Research*.
4. Luk, H-Y, **Levitt, DE**, Appell, CR, and Jiwan, NC. (under review). Resistance exercise-induced circulating factors influence the damaged skeletal muscle proteome in a sex-dependent manner. *Physiological Reports*.
5. Delery, EC*, **Levitt, DE***, Amedee, AM, Molina, PE, and Simon, L. (in revision). High fat, high sucrose diet promotes increased expression of ACE2 receptor in the SIV-infected host: Implications for SARS-CoV-2 infection. *Frontiers in Nutrition*. ***Equal contributions; co-first authors**

Peer-Reviewed Abstracts (poster presentation unless noted; 76 total), **mentee presenter:

1. **Levitt, DE**, Natividad, LA, and Collier, JJ. (Submitted for October 2024). Ethanol in vitro does not directly impact beta cell insulin secretion. National Hispanic Science Network Annual Meeting, New Orleans, LA.

2. Appell, CR, Jiwan, NC, Sekiguchi, Y, Vellers, HL, **Levitt, DE**, and Luk, H-Y. (Submitted for May 2024). Dehydration and resistance exercise increased muscle and immune cell oxidative stress in trained men. American College of Sports Medicine Annual Meeting, Boston, MA.
3. ****Khartabil, A, Helmlberger, R, DiLeo, M, Mills, C, Williams, A, Budnar, R, and Levitt, D.** (April 2024). Using computer vision libraries to streamline nuclei quantification: A validation study. American Physiology Summit, Long Beach, CA.
4. Jiwan, NC, **Levitt, DE**, Appell, CR, and Luk, H-Y. (April 2024). Resistance-exercise-induced circulating factors on damaged skeletal muscle tissue proteome in young untrained men. American Physiology Summit, Long Beach, CA.
5. **Levitt, D**, Helmlberger, R, and DiLeo, M. (April 2024). Untangling the impacts of ethanol on myoblast proliferation. American Physiology Summit, Long Beach, CA.
6. ****Newman, C, Khartabil, A, DiLeo, M, Villalba, Z, and Levitt, D.** (February 2024). Alcohol-mediated Changes in Myoblast Hif-1 α Protein Expression and Relationships with Decreased Differentiation Capacity: A Preliminary Analysis. Annual Meeting of the American College of Sports Medicine - Texas Chapter, Waco, TX.
7. Appell, CR, Jiwan, NC, Sekiguchi, Y, Vellers, HL, **Levitt, DE**, and Luk, H-Y. (February 2024). Dehydration and resistance exercise increased muscle and immune cell oxidative stress in trained men. Annual Meeting of the American College of Sports Medicine - Texas Chapter, Waco, TX.
8. **Levitt, DE**, Burnham, E, and Conner, M. (September 2023). At-risk alcohol use and cardiometabolic risk factors among first responders in the US. National Hispanic Science Network Scientific Meeting, Washington, DC. *Selected as best poster in basic sciences
9. Rodriguez-Graciani, KM, McTernan, PM, **Levitt, DE**, Molina, PE, and Simon, L. (September 2023). Effect of chronic binge alcohol administration on myoblast mitochondrial integrity in SIV-infected female macaques. National Hispanic Science Network Scientific Meeting, Washington, DC.
10. ****Helmlberger, R and Levitt, DE.** (March 2023). Alcohol-mediated decreased C2C12 myoblast proliferation: Cell death or slowed cell division? Gordon Research Seminar and Conference on Alcohol-Induced End Organ Diseases, Ventura, CA.
11. ****Newman, CC, Levitt, DE, Bourgeois, BL, Simon, L, and Molina, PE.** (February 2023). Acute alcohol decreases myoblast differentiation: Implications for skeletal muscle regenerative capacity. Annual Meeting of the American College of Sports Medicine - Texas Chapter, Waco, TX.
12. Avila, JA, Rodriguez, T, De Leon, M, Joseph, PV, **Levitt, DE**, and Fernandez, A. (September 2022). Scientific advancement through mentoring: Developing a mentorship program for the National Hispanic Science Network. National Hispanic Science Network Scientific Meeting, Grand Rapids, MI.
13. **Levitt, DE**, Simon, L, Lin, HY, Siggins, RW, Molina, PE, and Welsh, DA. (June 2022). Fat-free body mass protects against frailty in people living with HIV. Research Society on Alcoholism, Orlando, FL.
14. McTernan, PM, **Levitt, DE**, Siggins, RW, Welsh, DA, Simon, L, and Molina, PE. (June 2022). Alcohol impairs mitochondrial respiration within differentiated CD4⁺ T cells. Research Society on Alcoholism, Orlando, FL.
15. Bourgeois, BL, **Levitt, DE**, Molina, PE, and Simon, L. (June 2022). Chronic binge alcohol-administration and *in vitro* ethanol impair SIV-infected female macaque myoblast differentiation: Implications of microRNA-206. Research Society on Alcoholism, Orlando, FL.
16. SD Primeaux, A Peters, **DE Levitt**, BL Bourgeois, J Ahmed, N Johannsen, TF Ferguson, L Simon, and PE Molina. (June 2022). Effects of aerobic exercise on dysglycemia in persons living with HIV and at-risk alcohol use: Preliminary analysis. Research Society on Alcoholism, Orlando, FL.
17. Simon, L, Neelamegam, K, **Levitt, DE**, and Molina, PE. (April 2022). Electric pulse stimulation ameliorates ethanol-induced decreased myoblast differentiation. Gordon Research Conference, Ventura, CA.
18. **Levitt, DE**, Molina, PE, and Simon, L. (April 2022). At-risk alcohol and myoblast bioenergetic function in SIV/HIV. Gordon Research Seminar & Conference, Ventura, CA.

19. **Levitt, DE**, Simon, L, and Molina, PE. (April 2022). Ethanol shifts myoblast bioenergetic phenotype: Implications for muscle regeneration. Experimental Biology, Philadelphia, PA. **Oral and poster presentations.*
20. Bourgeois, BL, **Levitt, DE**, Molina, PE, and Simon, L. (April 2022). Chronic binge alcohol-mediated alterations in myotube EV profile affect recipient myotube miRNA expression. Experimental Biology, Philadelphia, PA.
21. **Levitt, DE**, Ferguson, TF, Primeaux, SD, Zavala, JA, Marshall, RH, Simon, L, and Molina, PE. (June 2021). Skeletal muscle mitochondrial profile is dysregulated in people living with HIV with fasting dysglycemia and aggravated by alcohol use. Research Society on Alcoholism, virtual meeting.
22. Molina, PE, Simon, L, **Levitt, DE**, Catinis, A, Amedee, A, and Siggins, R. (June 2021). Alcohol-associated metabolic dyshomeostasis; role in enhanced viral pathogenesis. Research Society on Alcoholism, virtual meeting.
23. Bourgeois, B, **Levitt, D**, Molina, P, and Simon, L. (June 2021). Expression of myomiRs in circulating extracellular vesicles of chronic binge alcohol-administered SIV-infected male rhesus macaques. Research Society on Alcoholism, virtual meeting.
24. **Levitt, DE**, Delery, EC, Simon, L, and Molina, PE. (April 2021). High-fat high-sucrose diet increases ACE2 receptor expression in lung and pancreatic islets in SIV-infected rhesus macaques: Implications for increased risk for SARS-CoV-2 infection. Experimental Biology, virtual meeting.
25. Torres Martinez, D, Saravia, JA, **Levitt, DE**, Molina, PE, and Simon, L. (April 2021). Ovariectomy increases pancreatic endoplasmic reticulum stress genes in simian immunodeficiency virus infection. Experimental Biology, virtual meeting.
26. Bourgeois, B, Yeh, A, Primeaux, S, **Levitt, D**, Brashear, M, Ferguson, T, Molina, P, and Simon, L. (April 2021). Associations between circulating microRNAs and measures of insulin/glucose dynamics in people living with HIV and dysglycemia. Experimental Biology, virtual meeting.
27. Saravia, A, Torres, D, **Levitt, D**, Vande Stouwe, C, Molina, P, and Simon, L. (April 2021). Chronic binge alcohol impairs glucose-insulin dynamics in SIV-infected female rhesus macaques. Experimental Biology, virtual meeting.
28. Torres, D, **Levitt, DE**, Saravia, A, Molina, P, and Simon, L. (November 2020). Chronic Alcohol-Mediated Mechanisms of Pancreatic Dysfunction in Simian Immunodeficiency Virus Infection. Annual Biomedical Research Conference for Minority Students, virtual meeting.
29. **Levitt, D**, Primeaux, S, Yeh, A, Peters, A, Evans-Gan, G, Ferguson, T, Simon, L, and Molina, P. (November 2020). Stay-at-home mandate during COVID-19 pandemic negatively impacted dietary, activity, and alcohol use patterns in people living with HIV with at-risk alcohol use. The American Physiological Society's Integrative Physiology of Exercise Conference, virtual meeting.
30. Primeaux, S, **Levitt, D**, Yeh, A, Peters, A, Evans-Gan, G, Ahmed, J, Johannsen, N, Ferguson, T, Simon, L, and Molina, P. (November 2020). Preliminary findings from a pilot study investigating the effects of an aerobic exercise intervention in persons living with HIV with at risk alcohol use. The American Physiological Society's Integrative Physiology of Exercise Conference, virtual meeting.
31. **Levitt, DE**, Molina, PE, and Simon, L. (October 2020). Ethanol dysregulates myoblast metabolic function in association with decreased differentiation. National Hispanic Science Network 20th International Conference, virtual meeting.
32. Molina, PE, Simon, L, **Levitt, DE**, Catinis, A, Amedee, A, and Siggins, R. (June 2020). Alcohol-associated metabolic dyshomeostasis; role in enhanced viral pathogenesis. Research Society on Alcoholism, New Orleans, LA. **Meeting canceled due to COVID-19, abstract was published online.*
33. Simon, L, Molina, PE, Welsh, DA, Ferguson, T, Ford, S, Primeaux, S, Brashear, M, Vande Stouwe, C, Adler, K, **Levitt, D**, and Yeh, A. (June 2020). Alcohol-mediated metabolic consequences in HIV/SIV: Muscle-pancreas axis. Research Society on Alcoholism, New Orleans, LA. **Meeting canceled due to COVID-19, abstract was published online.*

34. **Levitt, DE**, Adler, KA, Simon, L, and Molina, PE. (June 2020). Ethanol-induced mitochondrial signaling perturbations. Research Society on Alcoholism, New Orleans, LA. *Meeting canceled due to COVID-19, abstract was published online.
35. Simon, L, **Levitt, D**, Ferguson, T, Lin, H, Brashear, M, Primeaux, S, Welsh, DA, and Molina, PE. Factors influencing metabolic homeostasis in persons living with HIV: Implication of alcohol use. Research Society on Alcoholism, New Orleans, LA. *Meeting canceled due to COVID-19, abstract was published online.
36. Yeh, A, Bourgeois, B, **Levitt, DE**, Primeaux, SD, Brashear, M, Ferguson, TF, Simon, L, and Molina, PE. (June 2020). Circulating muscle-enriched microRNAs in persons living with HIV: Associations with alcohol use. Research Society on Alcoholism, New Orleans, LA. *Meeting canceled due to COVID-19, abstract was published online.
37. Primeaux, S, **Levitt, D**, Yeh, A, Brashear, M, Ahmed, J, Johannsen, N, Ferguson, T, Simon, L, and Molina, P. (June 2020). A pilot study investigating the effects of aerobic exercise on dysglycemia in persons with unhealthy alcohol use and HIV. Research Society on Alcoholism, New Orleans, LA. *Meeting canceled due to COVID-19, abstract was published online.
38. Primeaux, SD, Brashear MM, Ferguson, TF, Yeh, AY, **Levitt, DE**, Simon, L, and Molina, PE. (April 2020). Unhealthy alcohol use is associated with a higher prevalence of dysglycemia in persons living with HIV. Experimental Biology, San Diego, CA. *Meeting canceled due to COVID-19, abstract was published online.
39. **Levitt, DE**, Simon, L, and Molina, PE. (April 2020). Myoblast mitochondrial adaptation to chronic alcohol administration. Experimental Biology, San Diego, CA. *Meeting canceled due to COVID-19, abstract was published online.
40. Prendergast, M, **Levitt, D**, Yeh, A, Souza-Smith, F, Molina, P, and Simon, L. (November 2019). Alcohol-mediated mechanism of impaired muscle recovery in a rodent model of hind limb immobilization. Graduate Research Day, Louisiana State University Health Sciences Center, New Orleans, LA.
41. **Levitt, DE**, Simon, L, and Molina, PE. (October 2019). Chronic alcohol and ovariectomy reduce expression of mitochondrial-related genes in skeletal muscle of SIV-infected female rhesus macaques. In: Young Investigators' Panel, National Hispanic Science Network 19th International Conference, New Orleans, LA. *Oral presentation.
42. **Levitt, DE**, Simon, L, and Molina, PE. (September 2019). Chronic alcohol and ovariectomy reduce expression of mitochondrial-related genes in skeletal muscle of SIV-infected female rhesus macaques. National Heart, Lung, and Blood Institute 5th Annual Mitochondrial Biology Symposium on Mitochondrial Networks and Mitochondrial Energetics, Bethesda, MD.
43. **Levitt, DE**, Welsh, D, Ferguson, TF, Simon, L, and Molina, PE. (June 2019). Predictors of fat-free body mass in people living with HIV and hazardous alcohol use. 42nd Annual Research Society on Alcoholism Scientific Meeting, Minneapolis, MN.
44. Luk, H-Y, **Levitt, DE**, Boyett, J, Rojas, S, McFarlin, BK, and Vingren, JL. (May 2019). Resistance exercise-induced hormonal response promotes satellite cell proliferation in untrained men. Annual meeting of the American College of Sports Medicine, Orlando, FL.
45. Vingren, JL, **Levitt, DE**, Boyett, J, Luk, H-Y, Moses, S, McFarlin, BK, and Hill, DW. (May 2019). Acute alcohol ingestion after resistance exercise does not alter phosphorylation of upstream proteins in the mTOR signaling pathway. Annual meeting of the American College of Sports Medicine, Orlando, FL.
46. **Levitt, DE**, Simon, L, and Molina, PE. (April 2019). Chronic binge alcohol and ovariectomy reduce markers of mitochondrial biogenesis and function in skeletal muscle of SIV-infected female macaques. Experimental Biology, Orlando, FL.
47. **Levitt, DE**, Vande Stouwe, C, Simon, L, and Molina, PE. (March 2019). Glucose-insulin dynamics in SIV-infected female rhesus macaques: Impact of alcohol and ovarian hormone loss. Alcohol-Induced End Organ Diseases, Gordon Research Seminar and Conference, Ventura, CA.
48. Primeaux, SD, Brashear MM, Ferguson, TF, Yeh, AY, **Levitt, DE**, Simon, L, and Molina, PE. (March 2019). Hazardous alcohol drinking in persons living with HIV is associated with a higher incidence of dysglycemia

following glucose challenge. Alcohol-Induced End Organ Diseases, Gordon Research Conference, Ventura, CA.

49. **Levitt, DE**, Luk, HY, Rojas, S, Duplanty, AA, Hill, DW, McFarlin, BK, and Vingren, JL. (July 2017). Acute post-resistance exercise alcohol consumption does not alter muscular performance recovery in women. The National Strength and Conditioning Association's National Conference, Las Vegas, NV.
50. Vingren, JL, **Levitt, DE**, Luk, HY, Boyett, JC, Rojas, S, South, M, Budet, M, Comer, C, Hill, DW, McFarlin, BK. (July 2017). Effect of a resistance breathing mask on the acute growth hormone response to resistance exercise. The National Strength and Conditioning Association's National Conference, Las Vegas, NV.
51. Boyett, JC, **Levitt, DE**, Luk, HY, Rojas, S, Duplanty, AA, Hill, DW, McFarlin, BK, and Vingren, JL. (July 2017). Post-resistance exercise alcohol ingestion influence on circulating leukocytes in resistance trained females. The National Strength and Conditioning Association's National Conference, Las Vegas, NV.
52. Rojas, S, Luk HY, **Levitt, DE**, Boyett, JC, Flader, SM, Hill, DW, McFarlin, BK, and Vingren, JL. (July 2017). Effect of heavy upper body resistance exercise followed by a muscle damage protocol on circulating leukocytes. The National Strength and Conditioning Association's National Conference, Las Vegas, NV.
53. Hosokawa, Y, Zinn, JR, Wright, S, Leduc, M, Howard, E, Casa, DJ, Stearns, RL, Huggins, RA, Adams, WM, Jardine, J, Davis, RJ, Armstrong, LE, Vingren, J, **Levitt, D**, Ganio, MS, McDermott, BP, Williamson, K, McKenzie, AL, Munoz, CX, Kunces, LJ, and Lee, EC. (May 2017). LPS-induced TLR4 activation during prolonged running and cycling events in hot and humid environments. Experimental Biology, Chicago, IL.
54. **Levitt, DE**, Luk, HY, Duplanty, AA, Hill, DW, McFarlin, BK, and Vingren, JL. (March 2017). Post-eccentric exercise alcohol ingestion and LPS-stimulated cytokines in resistance-trained women. Advances in Skeletal Muscle Biology in Health and Disease, Gainesville, FL.
55. Luk, HY, **Levitt, DE**, Boyett, JC, Rojas S, Flader, SM, McFarlin BK, and Vingren JL. (March 2017). Effect of the transient resistance exercise-induced hormonal response on satellite cell activity: A pilot study. Advances in Skeletal Muscle Biology in Health and Disease, Gainesville, FL.
56. **Levitt, DE**, Duplanty, AA, Luk, HY, Budnar, Jr., RG, Fernandez, A, Hill, DW, McFarlin, BK, and Vingren, JL. (July 2016). Effect of acute alcohol ingestion on resistance exercise induced mTOR signaling in men. The National Strength and Conditioning Association's National Conference, New Orleans, LA. **Oral presentation*
57. Vingren, JL, Duplanty, AA, Budnar, Jr., RG, **Levitt, DE**, Luk, HY, Fernandez, A, McFarlin, BK, and Hill, DW. (July 2016). Effect of ethanol ingestion on the androgen receptor response to heavy resistance exercise. The National Strength and Conditioning Association's National Conference, New Orleans, LA.
58. Luk, HY, Duplanty, AA, Budnar, Jr., RG, **Levitt, DE**, Fernandez, A, McFarlin, BK, Hill, DW, and Vingren, JL. (July 2016). Glucocorticoid receptor content after heavy squat exercise is not affected by acute ethanol consumption. The National Strength and Conditioning Association's National Conference, New Orleans, LA.
59. Cartas, KP, **Levitt, DE**, Luk, HY, McFarlin, BK, Armstrong, LE, Hill, DW, Kupchak, BR, McKenzie, AL, Williamson, KH, Kunces, LJ, Munoz, CX, Lee, EC, and Vingren JL. (July 2016). Ibuprofen does not affect changes in leukocyte subsets in response to ultra-endurance cycling in the heat, The National Strength and Conditioning Association's National Conference, New Orleans, LA.
60. South, ME, **Levitt, DE**, Luk, HY, Kupchak, BR, Ganio, M, McDermott, B, Kunces, LJ, Munoz, CX, Lee, EC, Armstrong, LE, McFarlin, BK, Hill, DW, and Vingren JL. (July 2016). The effect of ibuprofen on pro-inflammatory cytokines in response to ultra-endurance cycling in the heat. The National Strength and Conditioning Association's National Conference, New Orleans, LA.
61. Rojas, S, **Levitt, DE**, Luk, HY, McKenzie, AL, Ganio, M, McDermott, B, Williamson, KH, Munoz, CX, Lee, EC, Armstrong, LE, McFarlin, BK, Hill, DW, and Vingren JL. (July 2016). Effect of ibuprofen on anti-inflammatory cytokine responses to ultra-endurance cycling in a high temperature environment. The National Strength and Conditioning Association's National Conference, New Orleans, LA.

62. Henning, AL, **Levitt, DE**, Vingren, JL, and McFarlin, BK. (June 2016). Using intracellular amplified nucleic acid detection technique to measure telomere length in individual T-cell subsets. CYTO, Seattle, WA.
63. **Levitt, DE**, Duplanty, AA, Budnar, RG, Luk, HY, Fernandez, A, Layman, TJ, Fancher, DL, McFarlin, BK, Hill, DW, and Vingren, JL. (July 2015). The effect of alcohol consumption after heavy resistance exercise on lipopolysaccharide-stimulated IL-1 β , TNF- α , and IL-10. The National Strength and Conditioning Association's National Conference, Orlando, FL.
64. Vingren JL, Budnar RG, Duplanty AA, **Levitt DE**, Luk H, Fernandez A, and Hill, DW. (July 2015). Effect of ethanol ingestion on the acute hormonal response to heavy resistance exercise in women. The National Strength and Conditioning Association's National Conference, Orlando, FL.
65. Luk, HY, Duplanty, AA, **Levitt, DE**, Budnar, RG, McFarlin, BK, Hill, DW, and Vingren, JL. (June 2015). Increased satellite cell proliferation when cultured with post-exercise serum: Role of testosterone? Annual Conference of the European College of Sport Science, Malmo, Sweden.
66. Cloutier, RM, Budnar, R, **Levitt, D**, Olivares, S, Wright, P, Takavoli, K, Dalai, M, Richardson, M, Gee, D, Trost, Z, Blumenthal, H, and Vingren, J. (May 2015). Exploring the relationship between alcohol craving, pain catastrophizing, and self-reported anxiety in the context of experimental back injury. The 27th annual meeting of the Association for Psychological Science, New York City, NY.
67. **Levitt, DE**, Jackson, AW, Morrow, Jr., JR. (May 2015). Elevated medical costs for obese fifth graders in California and Texas. Annual meeting of the American College of Sports Medicine, San Diego, CA.
68. Budnar, RG, **Levitt, DE**, Luk, H, Fernandez, A, Duplanty, AA, Layman, TJ, Blumenthal, H, Trost, Z, and Vingren, JL. (May 2015). Alcohol consumption 24h following eccentric low back muscle damage on muscular performance recovery in untrained individuals. Annual meeting of the American College of Sports Medicine, San Diego, CA.
69. Vingren, JL, Duplanty AA, Budnar RG, Luk H, **Levitt DE**, Fernandez A, Hill, DW, and DiMarco NM. (May 2015). Greater total and regional bone mineral density in adult male long-distance runners who resistance train. Annual meeting of the American College of Sports Medicine, San Diego, CA.
70. **Levitt, DE**, Jackson, AW, and Morrow, Jr., JR. (February 2015). Elevated medical costs for obese fifth graders in California and Texas. Annual meeting of the American College of Sports Medicine – Texas Chapter, Austin, TX.
71. **Levitt, DE**, Luk, HY, Duplanty, AA, Budnar, RG, Fernandez, A, Layman, TJ, McKenzie, AL, Lee, EC, Armstrong, LE, Hill, DW, McFarlin, BK, and Vingren, JL. (July 2014). The pro-inflammatory cytokine response to ultra-endurance cycling in an extreme environment. The National Strength and Conditioning Association's National Conference, Las Vegas, NV.
72. Budnar, RG, Vingren, JL, Duplanty, AA, Fernandez, A, McKenzie, AL, Luk, HY, **Levitt, DE**, Layman, TJ, Hill, DW, McFarlin, BK, Williamson, K, and Armstrong, LE. (July 2014). Acute hormonal response to 164 km road cycling in a hot environment. The National Strength and Conditioning Association's National Conference, Las Vegas, NV.
73. Duplanty, AA, Budnar, RG, Luk, HY, Fernandez, A, **Levitt, DE**, Venable, AS, Hill, DW, DiMarco, NM, McFarlin, BK, and Vingren, JL. (July 2014). Effect of resistance training on bone mineral density in male runners. The National Strength and Conditioning Association's National Conference, Las Vegas, NV.
74. Fernandez, A, Duplanty, AA, Budnar, RG, Luk, HY, **Levitt, DE**, Layman, TJ, Hill, DW, and Vingren, JL. (July 2014). Exercise intervention on performance measures related to cardiovascular and neuromuscular health in HIV+ women recovering from substance abuse. The National Strength and Conditioning Association's National Conference, Las Vegas, NV.
75. Luk, HY, **Levitt, DE**, Duplanty, AA, Budnar, RG, Fernandez, A, Layman, TJ, McKenzie, AL, Lee, EC, Armstrong, LE, Hill, DW, McFarlin, BK, and Vingren, JL. (July 2014). The effect of ultra-endurance cycling in a hot environment on TH2 cytokines. The National Strength and Conditioning Association's National Conference, Las Vegas, NV.

76. Layman, TJ, Duplanty, AA, Budnar, RG, Luk, HY, Cregar, CM, Idemudia, NO, Fernandez, A, **Levitt, DE**, Hill, DW, and Vingren, JL. (July 2014). Binge drinking following heavy eccentric resistance exercise: Effect on muscle power recovery in women. The National Strength and Conditioning Association's National Conference, Las Vegas, NV.

Local Abstracts (poster presentation unless noted; 16 total), **mentee presenter:

1. Nunez, A, Hendrix, J, Elliott, L, Schneider, S, Sparks, S, **Levitt, D**, Singer, J, Neugebauer, V, and Harris, BN. (April 2024). Is leptin an effective biomarker of stress in patients with dementia and their corresponding caregivers?
2. Aguilar, X, Hendrix, J, Singer, J, **Levitt, D**, and Harris, B. (April 2024). Stress-O-Meter: Exploring the connection between stress biomarkers and dementia. Texas Tech University Undergraduate Research Conference, Lubbock, Texas.
3. **Williams, A, Mills, C, Khartabil, A, and **Levitt, D**. (April 2024). Alcohol-induced changes in myotube extracellular vesicle microRNA cargo. Texas Tech University Undergraduate Research Conference, Lubbock, Texas.
4. **Mills, C, Williams, A, Khartabil, A, and **Levitt, D**. (April 2024). The effects of alcohol on extracellular vesicle concentration and particle size. Texas Tech University Undergraduate Research Conference, Lubbock, Texas.
5. **Zamagni, K, Barr, B, Gollahon, LS, and **Levitt, DE**. (April 2024). NH₄OH-treated protein as a potential countermeasure for sarcopenia. Texas Tech University Undergraduate Research Conference, Lubbock, Texas.
6. **DiLeo, M, Khartabil, A, Newman, C, and **Levitt, D**. (April 2024). Understanding alcohol-mediated bioenergetic dysfunction: Inhibition of enzymatic activity in myoblasts. Texas Tech University Undergraduate Research Conference, Lubbock, Texas.
7. **Villalba, Z, Newman, C, Khartabil, A, DiLeo, M, and **Levitt, D**. (April 2024). A possible link between HIF-1a and alcohol-associated interference of myoblast regenerative capacity. Texas Tech University Undergraduate Research Conference, Lubbock, Texas.
8. **Helmberger, R, Khartabil, A, DiLeo, M, Mills, C, Williams, A, Budnar, R, and **Levitt, D**. (April 2024). Validation of a computer vision-based tool to automate nuclei quantification. Texas Tech University Undergraduate Research Conference, Lubbock, Texas.
9. **Helmberger, R and **Levitt, DE**. (April 2023). Alcohol-mediated decreased myoblast proliferation in C2C12 cells: Cell death or slowed cell division? Texas Tech University Undergraduate Research Conference, Lubbock, Texas.
10. **Zamagni, K, Mills, C, Williams, A, Newman, C, and **Levitt, DE**. (April 2023). Extracellular vesicle miRNAs as biomarkers for alcohol-related comorbidities. Texas Tech University Undergraduate Research Conference, Lubbock, Texas.
11. **Mills, C, Williams, A, Newman, C, Zamagni, K, and **Levitt, D**. (April 2023). Extracellular vesicle-bound miRNAs involved in insulin signaling: Influence of exercise. Texas Tech University Undergraduate Research Conference, Lubbock, Texas.
12. **Williams, A, Mills, C, Newman, C, Zamagni, K, and **Levitt, D**. (April 2023). Alcohol and inflammation: Influence of extracellular vesicle-bound miRNAs. Texas Tech University Undergraduate Research Conference, Lubbock, Texas.
13. **DiLeo, M, Daniels, C, Helmberger, R, Que, L, and **Levitt, D**. (April 2023). Alcohol ailments: Negative effects on mitochondrial function in skeletal muscle. Texas Tech University Undergraduate Research Conference, Lubbock, Texas. *Selected for poster printing support.*
14. Bourgeois, B, Yeh, A, Primeaux, S, **Levitt, D**, Brashear, M, Ferguson, T, Molina, P, and Simon, L. (November 2020). Associations between circulating microRNAs and measures of altered insulin/glucose

dynamics and alcohol use in people living with HIV and dysglycemia. Graduate Student Research Day, Louisiana State University Health Sciences Center, New Orleans, LA.

15. **Elnaggar, JE, **Levitt, DE**, Molina, PE, and Simon, L. (July 2019). Alcohol-mediated dysregulation of mitochondrial protein expression in skeletal muscle of SIV-infected female rhesus macaques. Summer Student Research Day, New Orleans, LA. *1st place high school student category department-wide, 2nd place high school category overall.*
16. **Levitt, DE** and Vingren, JL. (March 2015). Effect of blood storage time on inflammatory biomarkers. Graduate Exhibition, University of North Texas, Denton, TX.

Invited Seminars and Talks

1. "Cardiometabolic consequences of alcohol misuse: A cross-disciplinary venture." Promoting Cross-Disciplinary Faculty Collaborations in Research Conference, Lubbock, TX, April 12, 2024.
2. "At-risk alcohol use: Implications for metabolic dysregulation." Obesity Research Institute 8th Annual Meeting: Diabetes: A Texas Sized Issue. May 3, 2023.
3. "Mental health in STEM" LSUHSC Postbaccalaureate Research Education Program (PREP) virtual workshop, New Orleans, LA, December 6, 2023.
4. "Alcohol-mediated bioenergetic dysregulation in SIV/HIV: Implications for muscle regeneration and metabolic health" Biology Seminar Series, Department of Biological Sciences, October 12, 2022.
5. "Alcohol-mediated bioenergetic dysregulation in SIV/HIV: Implications for muscle regeneration and metabolic health" Agilent Cell Analysis eSeminar Series, July 28, 2022. [Link to on-demand access \(registration required\)](#).
6. "At-risk alcohol and myoblast bioenergetic function in SIV/HIV." In: Clinical Implications of Excessive Ethanol Use. Gordon Research Seminar on Alcohol-Induced End Organ Diseases: Novel Molecular Pathways That Contribute to Alcohol-Induced Tissue Dysfunction. Ventura, CA, April 24, 2022. **Also presented as a poster at the associated Gordon Research Conference.*
7. "Mental health in STEM: Parts I and II" LSUHSC Postbaccalaureate Research Education Program (PREP) virtual workshop, New Orleans, LA, July 28 & August 11, 2021.
8. "Alcohol-induced Skeletal Muscle Dysregulation in SIV/HIV: A Bioenergetics Story" Perspectives in Alcohol Research, LSUHSC New Orleans, LA, March 15, 2021.
9. "Mental health in STEM" LSUHSC Postbaccalaureate Research Education Program (PREP) virtual workshop, New Orleans, LA, February 12, 2021.
10. "Alcohol-mediated skeletal muscle mitochondrial dysfunction: Insights from non-human primates" Alcohol and Drug Abuse Center of Excellence Semiannual Scientific Retreat, New Orleans, LA, December 18, 2019.
11. "CRISPR: Ethical Considerations of Human Use." Perspectives in Alcohol Research, LSUHSC New Orleans, LA, October 17, 2019.
12. "Chronic alcohol and ovariectomy reduce expression of mitochondrial-related genes in skeletal muscle of SIV-infected female rhesus macaques." Session: Young Investigator's Panel. National Hispanic Science Network 19th International Conference, New Orleans, LA, October 11, 2019.
13. "Alcohol and exercise: Do they mix?" Department of Physiology Seminar Series, Louisiana State University Health Sciences Center-New Orleans, October 2017.
14. "Alcohol and resistance exercise" Kinesiology Seminar, Texas Woman's University, Denton, TX, September 2017.
15. "Effect of alcohol ingestion after heavy resistance exercise on upstream inhibitors of mTOR signaling in men." Student Research Development Awardee Presentation (Doctoral). Annual meeting of the American College of Sports Medicine – Texas Chapter, College Station, TX. March, 2016.

16. "The effect of alcohol ingestion on the resistance exercise induced immune response in women." Student Research Development Awardee Presentation (Master's). Annual meeting of the American College of Sports Medicine – Texas Chapter, Fort Worth, TX. February, 2014.

Conference Participation

1. Award session moderator. *Solomon A. Berson Distinguished Lectureship of the Endocrinology & Metabolism Section*. American Physiology Summit, April 25, 2025.
2. Scientific session co-chair. *Alcohol and whole-person health throughout the lifespan*. National Hispanic Science Network 24nd International Conference, New Orleans, LA, October 4th, 2024.
3. Poster session co-chair (2 sessions). National Hispanic Science Network 24nd International Conference, New Orleans, LA, October 3rd-4th, 2024.
4. Invited speaker (introduced the "state of the science" for the topic) and moderator. *Mitochondrial adaptations: Basic mechanism in alcohol-associated end organ injury*. Research Society on Alcohol Annual Scientific Meeting, Minneapolis, MN, June 23rd, 2024.
5. Conference planning committee member. Promoting Cross-Disciplinary Faculty Collaborations in Research, Lubbock, TX, April 12th, 2024.
6. PhysioHub session moderator. *Trending topics in endocrinology and metabolism*. American Physiology Summit, Long Beach, CA, April 6, 2024.
7. Breakout session chair. *Grant Writing Expert Panel (part 1) and Roundtable Discussions (part 2)*. National Hispanic Science Network 23rd International Conference, Washington, DC, September 23rd, 2023.
8. Game Changer session co-chair. *The Science of Healthy Aging*. American Physiology Summit. Long Beach, CA, April 22, 2023.
9. Seminar chair. Gordon Research Seminar on Alcohol-Induced End Organ Diseases. Advancements in Molecular and Cellular Mechanisms of Alcohol-Related Tissue-Injury: Targets for Treatment and Disease Prevention. Ventura, CA, March 25-26, 2023.
10. Scientific session co-chair. *Alcohol use and abuse in the age of COVID-19*. National Hispanic Science Network 22nd International Conference, Grand Rapids, MI, September 28, 2022.
11. Discussion leader. Keynote Session: *Bridging the Gap Between Basic and Clinical Alcohol-Related Research*. Gordon Research Seminar on Alcohol-Induced End Organ Diseases: Novel Molecular Pathways That Contribute to Alcohol-Induced Tissue Dysfunction. Ventura, CA, April 23, 2022.
12. Panel co-chair. *Young Investigators' Panel*. National Hispanic Science Network 21st International Conference, virtual meeting, September, 2021.
13. Scientific session co-chair. Emerging topics: Short- and long-term implications of COVID-19 on substance use. National Hispanic Science Network 21st International Conference, virtual meeting, September, 2021.
14. Symposium co-organizer/co-chair. Symposium: Epigenomics in metabolic health and disease. Experimental Biology, April, 2021, virtual meeting.
15. Panel co-chair. Young Investigators' Panel. National Hispanic Science Network 20th International Conference, virtual meeting, October, 2020.
16. Scientific session co-chair. Alcohol as a challenge to ending the HIV epidemic. National Hispanic Science Network 20th International Conference, virtual meeting, October, 2020.
17. Symposium co-organizer/co-chair. Symposium: Epigenomics in metabolic health and disease. Experimental Biology, San Diego, CA, April, 2020. *Meeting cancelled due to COVID-19.
18. Poster Judge. National Hispanic Science Network 19th International Conference, New Orleans, LA, October 10, 2019.

19. Symposium co-chair. Symposium: Alcohol-mediated skeletal muscle metabolic dysfunction. Research Society on Alcoholism, Minneapolis, MN, June 26, 2019.
20. Judge. American Physiological Society Barbara A. Horwitz and John M. Horowitz Undergraduate Research Awards, Experimental Biology, Orlando, FL, April 7, 2019.
21. Discussion leader, Session: Translational/Therapeutic Developments in Alcohol-Induced Tissue Injury, Gordon Research Seminar (Topic: Alcohol-Induced Tissue Injury: Exploring Pathophysiology, Translational Developments and Experimental Models Used in Alcohol Research), Ventura, CA, March 24, 2019.

Continuing Professional Education

1. Laboratory Launch! Establishing your Research Space at TTU. TTU ADVANCE (NSF Award 2017704)-sponsored TLPDC Workshop, November 10, 2023.
The goal of this workshop was to discuss TTU-specific strategies for building, growing, and/or updating your laboratory space. Outcomes of this workshop will be to describe TTU's FOP (Fund, Organization, Program) in the context of new faculty startup funds and to identify strategies for infrastructure modifications, equipment purchases, and general lab setup. Facilitators: Kayleigh Millerick, PhD and Josie Solis. 1.5 hours.
2. What's Happening Now with ChatGPT and AI in Higher Education (Teaching, Learning, & Professional Development Center [TLPDC] Summer Workshop), June 28, 2023.
The goal of this workshop was to discuss generative artificial intelligence in the context of higher education such as best practices for addressing and incorporating it into classes, guiding students on its appropriate and ethical use, and challenges we are facing or may face moving forward. Instructors: Suzanne Tapp and Alec Cattell, PhD. 1 hour.
3. Enhanced Interdisciplinary Research Training Institute (eIRTI) on Hispanic Drug Abuse 12th Annual Summer Training Program, June 5-10, 2023.
*The goal of eIRTI program is to strengthen the research pipeline by increasing the number of independently funded Hispanic investigators that have gone underrepresented in substance abuse and addiction research.
This intensive summer workshop initiates a 2-year fellowship program aimed to facilitate development early career scientists interested in conducting research on substance abuse as it affects Hispanic populations. The summer institute provided tailored support to facilitate NIH proposal development.*
4. Grant Writers' Seminars and Workshops: Write Winning NIH Grant Proposals, May 5, 2023.
The goal of this workshop was to provide strategies for strengthening R-series NIH grant applications. Additional resources were provided to participants. Instructor: John D. Robertson, PhD. 4 hours.
5. Tenure Academy Reimagined: Preparing for your Third Year Review, March 23, 2023.
This workshop featured representatives from the Office of the Provost to discuss strategies for dossier preparation and featured a discussion about mentorship and belonging. Moderated by Mitzi Ziegner. 2 hours.
6. Research Building Blocks, Session 4: Essentials of Grant Submission Workshop, 2022.
This workshop covered services provided by the Office of Research Development & Communications (ORDC), introduced personnel from the Office of Research Services (ORS) and their teams in charge of proposals, awards, and reporting, and discussed common questions related to grant timelines, Cayuse, and budget support. Instructors: ORDC and ORS Personnel including Cristal Ponciano Sanchez and Feroza Haq. 1.5 hours.
7. Teaching, Learning, & Professional Development Center (TLPDC) Fall Workshop Series for New Faculty, Fall 2022.
This workshop series, representing resources and departments from around the university, offers topics of interest to new faculty and are based on questions that new faculty often have throughout the semester. Workshops attended included "What do I do if I am concerned about a student?" (9/9/2022; Instructors:

Sarah Cuevas, Senior Academic Advisor; Stephanie Legako, Academic Specialist for Student Retention); "What can I expect during my first years as a faculty member? A panel discussion" (9/21/2022; Instructor: Mitzi Ziegner, Associate Director, TLPDC) 4 hours total.

8. Perspectives in Alcohol Research, Louisiana State University Health Sciences Center, 2018-2022.
For one hour each week, trainees and faculty members in the alcohol research field discuss relevant topics including recently published alcohol-related literature, model systems and techniques, and research ethics. Alcohol-related seminars are incorporated. This elective is discussion-based and trainees lead the majority of sessions. 15 hours per semester, Instructors: Robert Siggins, PhD, Lucas Albrechet de Souza, PhD, Elizabeth Avegno, PhD, Flavia Souza-Smith, PhD, and Stefany Primeaux, PhD.
9. Entering Mentoring Workshop Series, Louisiana State University Health Sciences Center, 2021-2022.
This program, hosted by the Office of Diversity and Inclusion, is based on the "Entering Mentoring" curriculum developed by Christine Pfund and Jo Handelsman at the University of Wisconsin and aims to equip participants with additional strategies and resources to develop more productive mentoring relationships. Topics: Entering mentoring, maintaining effective communication, aligning expectations, assessing understanding. 1 hour per workshop.
10. Annual grantsmanship workshops hosted by the Education Committee at the Research Society on Alcoholism Annual Meeting, June 2019, 2021, and 2022.
At these workshops, NIH/NIAAA program officers provided an overview of the grantsmanship process. During breakout sessions, specific details relevant to those intending to pursue K-series applications were discussed with experienced grant reviewers and program officers. 2 hours per workshop.
11. Responsible Conduct of Research, Louisiana State University Health Sciences Center, Spring 2021.
This graduate course required that participants critically think through issues and dilemmas encountered by scientists conducting biomedical research through group discussions, case studies, and interactive guest lectures. Emphasis was placed on the integration of personal and professional ethical standards. 16 hours total, Instructor: Angela Amedee, PhD.
12. New Reviewer Orientation, American Journal of Physiology-Regulatory, Integrative, and Comparative Physiology (AJP-Regu), October 13, 2020.
This orientation provided information on the journal scope, peer review process, and best practices for peer review. 1.25 hours total, presented by Gina Yosten, PhD, Editor-in-Chief of AJP-Regu & associate editors.
13. Epigenetics, Louisiana State University Health Sciences Center, Spring 2020.
This graduate course taught fundamentals of epigenetics including types of epigenetic modifications, research techniques in epigenetics, clinical outcomes of epigenetic disturbances, and targeting epigenetics as a treatment option. Course discussions, a paper, a presentation, and a final exam were required. 15 hours total, Instructor: Fern Tsien, PhD.
14. Leadership Workshop Series, Louisiana State University Health Sciences Center, 2020.
This workshop series covers the topics of trust, communication, and purpose. Pre-workshop activities were completed in preparation for actively engaging in each 90-110-minute workshop hosted by Samantha Puszczewicz, Senior HR Consultant for Talent Development.
15. Biostatistics, Louisiana State University Health Sciences Center, Summer 2019.
This graduate-level course was a refresher for Biostatistics. Topics included experimental design, rigor & reproducibility, specific statistical tests, big data & deep learning, sex as a biological variable, reporting standards, and data ethics. 15 hours total, Instructors: Nick Gilpin, PhD and Jason Middleton, PhD.
16. Grant Writing Seminar Series, Louisiana State University Health Sciences Center, Fall 2018.
This 5-part seminar series focused on writing a successful F-series training grant. 5 hours total, Instructor: Andrew Hollenbach, PhD.

Journal Activity

Editorial activity

2023-2024 Guest Editor, *Nutrients*, Special Issue: Alcohol and Human Health

Reviewer activity

2023-present Reviewer, *Journal of Applied Physiology*
2023-present Reviewer, *Molecular and Cellular Endocrinology*
2022-present Reviewer, *Scientific Reports*
2021-present Reviewer, *Life Sciences*
2021-present Reviewer, *Research Quarterly for Exercise and Sport*
2021-present Reviewer, *Alcohol and Alcoholism*
2021-present Reviewer, *American Journal of Drug and Alcohol Abuse*
2021-present Reviewer, *European Journal of Applied Physiology*
2021-present Reviewer, *International Journal of Sport Nutrition and Exercise Metabolism*
2020-present Reviewer, *Alcohol: Clinical and Experimental Research*
2019-present Reviewer, *Contemporary Clinical Trials Communications*
2018-present Reviewer, *Sports Medicine*
2018-present Reviewer, *Biomedicine and Pharmacotherapy*
2015-present Reviewer, *Journal of Strength and Conditioning Research*
2015-present Reviewer, *International Journal of Exercise Science*

TEACHING RESPONSIBILITIES

Formal Course Responsibilities

Undergraduate Courses Taught (Instructor of Record)

Year(s)	Course Title (total number of semesters/sections taught)	Number of Students
TTU		
2023-present	Exercise Physiology (4x)	22-30
LSUHSC		
2020-2022	Nursing Pathophysiology (RN to BSN, <i>team taught</i> ; 5x)	6-13
UNT		
2022	Human Sexuality (<i>virtual</i> ; 1x)	47
2021	Principles of Health-Related Fitness (<i>virtual</i> ; 1x)	97
2020-2022	Sports Nutrition (<i>virtual</i> ; 3x)	140
2017	Exercise Physiology (<i>team taught</i> ; 1x)	70
2016; 2021-2022	Biomechanics (2x <i>hybrid</i> ; 1x <i>virtual</i>)	23-77
2013-2016	Principles of Health-Related Fitness (4x)	27-33
2015	Conditioning (1x)	15
2013-2015	Walking for Health and Fitness (3x)	20-28
2014-2015	Jogging (3x)	20-27
2013-2014	Weight Training (3x)	11-26
2014	Intermediate Weight Lifting (2x)	11-25
2014	Yoga (1x)	28

Graduate Courses Taught (Instructor of Record)

Year(s)	Course Title (total number of semesters taught)	Number of Students
TTU		
2023 – Present	Individual Research – PhD level (2x)	1
2023 – Present	Individual Research – MS level (2x)	1
2023 – Present	Advanced Exercise Physiology II (2x)	9-10
2022 – Present	Skeletal Muscle Physiology (3x)	11-22

Recurring & Guest Lectures

Year(s)	Course (number of times taught)	Topic
LSUHSC		
2021 – 2022	Nursing Pathophysiology (3x)	Reproductive disorders
2018 – 2022	Nursing Pathophysiology (13x)	Disorders of the skeletal system
2018 – 2021	Nursing Pathophysiology (9x)	Metabolic & rheumatic disorders
2019 – 2021	Nursing Physiology (5x)	Lifestyle medicine: Exercise
UNT/TWU		
2016-2017	Exercise Testing & Prescription (3x)	Exercise endocrinology
2017	Nutrition & Exercise (Graduate, 1x)	Alcohol & exercise
2017	Biomechanics (1x)	Biomechanics of skeletal muscle
2017	Exercise Physiology (1x)	Sex differences in exercise physiology
2016	Exercise Physiology (Graduate, 1x)	Muscle damage, inflammation, & alcohol
2014	Exercise Physiology (Graduate, 1x)	Skeletal muscle damage & repair

Teaching Assistantships

Semester	Course (number of semesters as TA)	Number of Students
UNT		
2017	Neuromuscular Physiology of Exercise (1x)	11
2014-2016	Biomechanics (9x)	24-79
2013-2015	Quantitative Analysis in Kinesiology (5x)	60-153
2014	Exercise Testing and Prescription (1x)	9

Students**Graduate committees***PhD Students – committee membership*

2024 – Present	Marcos Keefe, Qualifying exam committee member
2022 – 2024	Nigel Jiwan, Dissertation committee member
2022 – Present	Casey Appell, Dissertation committee member
2022 – 2024	Katherine Dillon, Dissertation committee member
2022 – 2024	Yejin Kang, Dissertation committee member

MS Students – committee membership

2024	Michael Thomas, MS committee member (non-thesis)
2023	Jiaqi Niu, MS committee member (non-thesis)
2023 – 2024	Kathryn Southall, MS committee member

Graduate students trained

2023 – 2024	Alexandra Khartabil, PhD student
2022 – 2024	Colby Newman, MS student
2022 – 2023	Chelsea Daniels, MS (currently a clinical exercise physiologist)
2019 – 2021	Matthew Prendergast, MS (currently a PhD student at The University of Missouri)

2013-2018 MS students trained:

- Michelle Budet, MS (currently a project coordinator)
- Allison Britzky, MS (currently a cardiopulmonary exercise physiologist)
- Alex Shaw, MS (founder and head coach of Whiskey Weight Loss)
- Matthew South, MS (currently a physical education teacher)

Medical students trained

2020 – 2022	Jeanette Zavala, MD, Summer Research Intern and Honors Student
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Summer Project: “At-risk alcohol use and dysglycemia dysregulate skeletal muscle mitochondrial function in people living with HIV”
Honors Project: At-risk alcohol use and impaired glucose tolerance suppress skeletal muscle mitochondrial turnover in people living with HIV”
Jeanette is currently a medical student at LSUHSC.

Undergraduate students trained

2024 – Present Ernán Carrasco, Undergraduate Researcher

2023 – 2024 Zenaida Villalba, Undergraduate Researcher (currently a STEM MBA student at TTU)

2022 – Present Matthew DiLeo, Undergraduate Research Scholar
Rylea Helmberger, Undergraduate Research Scholar
Connor Mills, Undergraduate Research Scholar
Ashley Williams, Undergraduate Research Scholar
Kaitlyn Zamagni, Undergraduate Researcher

2022 Laiza Que, Undergraduate Research Scholar

2021 Mayrimar Marcano Santana, Summer Research Intern
Project: “Chronic binge alcohol and skeletal muscle mitochondrial dynamics proteins in SIV/HIV”
Mayrimar is currently an undergraduate student at the University of Puerto Rico.

2013-2018 Undergraduate laboratory assistants trained:

- Kevin Cartas (currently a personal trainer)
- Caleb Comer (currently in physical therapy school)
- Daniel Fancher (currently a registered nurse)
- Spencer Moses (currently a master’s student)
- Michelle Martin (currently Doctor of Chiropractic)
- Raven Nyquist
- Sharon Rojas (currently in nursing school)

High school students trained

2019 Jasmin Elnaggar, Summer Research Intern
Project: “Alcohol-mediated dysregulation of mitochondrial protein expression in skeletal muscle of SIV-infected female rhesus macaques”.
Jasmin is currently an undergraduate student at Vanderbilt University.

SERVICE ACTIVITIES

Departmental and Institutional Service

2024 – Present	<u>Steering committee member</u> , College of Arts and Sciences Undergraduate Research Academy (CASURA), Texas Tech University, Lubbock, TX.
2024 – Present	<u>Seminar committee member</u> , Organize two annual kinesiology seminars for the Department of Kinesiology & Sport Management, Lubbock, TX.
2023 – Present	<u>Member</u> , Cross-Disciplinary Faculty Group, Texas Tech University, Lubbock, TX
2022 – 2024	<u>Newsletter committee member</u> , Bi-annual newsletter for the Department of Kinesiology & Sport Management, Texas Tech University, Lubbock, TX.
Dec. 15, 2021	<u>Trainee talk judge</u> , 15 th ADACE Scientific Retreat, LSUHSC, New Orleans, LA.
2021 – 2022	<u>Diversity, Equity, and Inclusion (DEI) Committee member</u> , Department of Physiology, LSUHSC, New Orleans, LA
May 25, 2021	<u>Trainee talk judge</u> , 14 th ADACE Scientific Retreat, LSUHSC, New Orleans, LA.
2020 – 2021	<u>Co-founder & Chair</u> , ADACE Postdoctoral Fellow Seminar Series, Spring and Fall 2021, LSUHSC, New Orleans, LA

Nov. 18, 2020	<u>Co-organizer and host</u> , Better Together: A Model for Women and LGBTQ Equality in the Workplace; Journal club with the Association for Women in Science in support of International LGBTQ+ STEM Day, LSUHSC, New Orleans, LA
2019-2022	<u>Wellbeing Committee member</u> , Department of Physiology, LSUHSC, New Orleans, LA
2019-2020	<u>Co-chair and organizer</u> , ADACE Postdoctoral Fellow Seminar Series, Spring 2020, LSUHSC, New Orleans, LA
Nov. 8, 2019	<u>Poster judge</u> , Graduate Research Day, LSUHSC, New Orleans, LA
Spring 2019	<u>Organizing committee member</u> , Alcohol and Drug Abuse Center of Excellence (ADACE) Spring Retreat, LSUHSC, New Orleans, LA
Dec. 18, 2018	<u>Moderator</u> for Panel Discussion: Research Funding & Initiatives Related to Veteran Health, Alcohol and Drug Abuse Center of Excellence (ADACE) Retreat, LSUHSC, New Orleans, LA
Nov. 2, 2018	<u>Poster judge</u> , Graduate Research Day, LSUHSC, New Orleans, LA
2018-2022	<u>Organizer and editor</u> , Physiology Newsletter, LSUHSC, New Orleans, LA
2016-2018	<u>Graduate student representative</u> , Department Kinesiology, Health Promotion, and Recreation (KHPR), University of North Texas (UNT), Denton, TX
2015-2016	<u>Graduate student member</u> , KHPR Department Chair Search Committee, UNT, Denton, TX

National Service

2024 – Present	<u>Abstract reviewer</u> , National Strength and Conditioning Association
2023 – Present	<u>Awards reviewer</u> , Endocrinology & Metabolism Section Awards, American Physiological Society
2022 – 2024	<u>Application reviewer</u> , Summer Undergraduate Research Fellowship (SURF) program, American Physiological Society (annual)
2017 – Present	<u>Grant reviewer</u> , National Strength and Conditioning Association Foundation (annual)
2019 – Present	<u>Judge</u> , Barbara A. Horwitz and John M. Horowitz Undergraduate Research Awards (selection of finalists), American Physiological Society (annual)
Summer 2017	<u>Field tester</u> for Professional Skills Training Course: Professional Integrity and Publishing Ethics, American Physiological Society
March 2016	<u>Volunteer</u> , assisted with logistics for Annual Meeting of the American College of Sports Medicine, Texas Chapter, College Station, TX
February 2015	<u>Volunteer</u> , assisted with logistics for Annual Meeting of the American College of Sports Medicine, Texas Chapter, Austin, TX

Community Service and Outreach Activities

Jul. 11, 2023	<u>Invited speaker</u> for Girls in STEAM Camp (8 th -11 th graders). Topic: Career Journey as an Academic Scientist, Lancaster, TX (virtual event).
Jun. 29, 2023	<u>Invited speaker</u> for Girls in STEAM Camp (6 th -9 th graders). Topic: Career Journey as an Academic Scientist, Lancaster, TX (virtual event).
Apr. 13, 2022	<u>Invited speaker</u> for Girls in STEM and Healthcare Careers event (7 th and 8 th graders). Topic: Career Journey as an Academic Scientist, Berkner High School, Richardson, TX (virtual event).
Mar. 21-23, 2022	<u>Judge</u> , Research Appreciation Day, University of North Texas Health Sciences Center, Fort Worth, TX (virtual event).
Nov. 16, 2021	<u>Invited speaker</u> for Girls in STEM event. Topic: Women in STEM, Berkner High School, Richardson, TX (virtual event).
July 16, 2021	<u>Invited facilitator</u> for the American Physiological Society's Summer Undergraduate Research Fellows (SURF) virtual seminar. Topic: Communicating research results in figure format.
Jun. 15, 2021	<u>Invited speaker</u> for career seminar series, Richardson ISD Gifted & Talented Middle & High School Summer Program. Topic: Pursuing a scientific research career. Richardson, TX (delivered online).
Feb. 22, 2021	<u>Judge</u> , Greater New Orleans Science and Engineering Fair, Biochemistry and Cellular & Molecular Biology and Microbiology (Senior Divisions), Virtual Fair, New Orleans, LA.

- Nov. 18, 2020 Invited speaker for “Wellness Wednesdays” seminar series, Xavier University’s Center of Health & Wellness. Topic: Causes and consequences of drug and alcohol abuse. New Orleans, LA (delivered online).
- Jun. 17, 2020 Invited speaker for career seminar series, Richardson ISD Gifted & Talented Middle School Summer Program. Topic: Pursuing a scientific research career. Richardson, TX (delivered online).
- Feb. 11, 2020 Judge, Greater New Orleans Science and Engineering Fair, Biochemistry and Cellular & Molecular Biology, Junior Division, Tulane University, New Orleans, LA.
- Dec. 14, 2019 Coordinator and volunteer, Habitat for Humanity build, New Orleans, LA.
- Feb. 19, 2019 Judge, Greater New Orleans Science and Engineering Fair, Biochemistry and Cellular & Molecular Biology, Junior Division, Tulane University, New Orleans, LA.
- Oct. 2016 Invited speaker for Young Women in Science Education, Topic: Experiences and advice as a woman in a STEM field, Berkner High School, Richardson, TX.
- Dec. 2015 Invited speaker for Young Women in Science Education, Topic: Experiences and advice as a woman in a STEM field, Berkner High School, Richardson, TX.

Research in the News

- July 14, 2023. NSCA TV Interview. Released September 26, 2023. <https://www.nsca.tv/nsca-foundation-voices-of-innovation-interview-series/videos/dr-danielle-levitt-nsca-foundation-masters-doctoral-research-grant-recipient>
- February 14, 2018. Key findings from our publication (PMID: 29385007) were featured in a story by VICE news. <https://www.vice.com/en/article/59k3xb/you-wont-ruin-your-workout-by-drinking-after>
- January 12, 2015. NBC5DFW, UNT Researchers Study Effects of Alcohol and Your Workout, <https://www.nbcdfw.com/news/local/UNT-Researchers-Study-Effects-of-Alcohol-and-Your-Workout-288341091.html?fbclid=IwAR3tCUCUutIta247HiWhqxVW3rDrdKQgcBdiGebFA9OJLt Wg 9bhkw2 k>

PROFESSIONAL REFERENCES

1. Liz Simon, PhD, BVSc

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 Relationship: Postdoctoral mentor

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