

Scott L. Davis, PhD

Curriculum Vitae

Address:

Integrative Physiology Laboratory
Applied Physiology & Sport Management
Southern Methodist University
P.O. Box 750382
Dallas, TX 75275-0382
Phone: 214-768-1028
Email: sldavis@smu.edu

EDUCATION

Post-Doctoral:

2003-2006 ***Post-doctoral Research Fellowship - Integrative Physiology***
Department of Internal Medicine, Division of Cardiology
University of Texas Southwestern Medical Center, Dallas, TX; and
Institute for Exercise & Environmental Medicine, Texas Health Presbyterian
Hospital Dallas, Dallas, TX
Mentor: Craig G. Crandall, PhD

Graduate:

2003 ***Doctor of Philosophy – Exercise & Sport Science***
University of Utah, Salt Lake City, UT 84112
Emphasis: Exercise Physiology
Minors: Molecular Biology and Human Metabolism
Mentors: Andrea T. White, PhD and Jack H. Petajan, MD, PhD

2002 ***Master of Science – Kinesiology & Health Education***
University of Wyoming, Laramie, WY 82071
Emphasis: Exercise Physiology
Mentor: John G. Wilkinson, PhD

Undergraduate:

1993 ***Bachelor of Science – Physical & Health Education***
University of Wyoming, Laramie, WY 82071
Emphasis: Exercise Physiology

PROFESSIONAL EXPERIENCE & TRAINING

Academic Appointments:

2015-current	<i>Associate Professor with Tenure</i> Department of Applied Physiology & Sport Management Simmons School of Education & Human Development Southern Methodist University, Dallas, TX
2021-current	<i>Volunteer Associate Professor</i> Department of Applied Clinical Research School of Health Professions University of Texas Southwestern Medical Center, Dallas, TX
2014-current	<i>Director</i> Integrative Physiology Laboratory Department of Applied Physiology & Sport Management Simmons School of Education & Human Development Southern Methodist University, Dallas, TX
2010-current	<i>Director</i> Applied Physiology Laboratory Department of Applied Physiology & Sport Management Simmons School of Education & Human Development Southern Methodist University, Dallas, TX
2013-2021	<i>Director</i> Multiple Sclerosis Neurophysiology Research Multiple Sclerosis Program Department of Neurology & Neurotherapeutics University of Texas Southwestern Medical Center, Dallas, TX
2010-2021	<i>Adjunct Associate Professor</i> Deborah Viragh Research Laboratory for Multiple Sclerosis Pathophysiology Multiple Sclerosis Program Department of Neurology & Neurotherapeutics University of Texas Southwestern Medical Center, Dallas, TX
2010-2015	<i>Assistant Professor</i> Department of Applied Physiology & Wellness Simmons School of Education & Human Development Southern Methodist University, Dallas, TX
2006-2010	<i>Assistant Professor</i> Multiple Sclerosis Program Department of Neurology University of Texas Southwestern Medical Center, Dallas, TX

Administrative Appointments:

- 2012-current ***Director***
Applied Physiology & Health Management Major
Department of Applied Physiology & Sport Management
Simmons School of Education & Human Development
Southern Methodist University, Dallas, TX
Oversee all administrative and curricular decisions of the major as well as represent the department and school in university-wide decision-making in education and research development.
- 2011-current ***Director***
Advancing Physical Therapy Program
Southern Methodist University, Dallas, TX
Lead collaborative partnership between Southern Methodist University and the University of Texas Southwestern Medical Center to provide a direct path for undergraduates at Southern Methodist University to the Doctor of Physical Therapy program at the University of Texas Southwestern Medical Center.
- 2022-2024 ***Department Chair, ad interim***
Department of Applied Physiology & Sport Management
Simmons School of Education & Human Development
Southern Methodist University, Dallas, TX
Primary academic and administrative leader for the Department, reporting directly to the Dean of the School. Role entailed overseeing the departmental strategic direction, fostering innovation in academic programs, collaborating with faculty on curriculum enhancements, managing budgets, mentorship of junior faculty and doctoral students and addressing personnel matters.

Training:

- 2003-2006 *Post-doctoral Research Fellow*
Department of Internal Medicine, Division of Cardiology
University of Texas Southwestern Medical Center, Dallas, TX; and
Institute for Exercise & Environmental Medicine, Texas Health Presbyterian Hospital Dallas, Dallas, TX
Mentor: Craig G. Crandall, PhD
- 2000-2003 *Pre-doctoral Research Fellow*
Department of Exercise and Sport Science, College of Health
University of Utah, Salt Lake City, UT
Mentors: Andrea T. White, PhD and Jack H. Petajan, MD, PhD
- 1998-2000 *Graduate Research Assistant*
Department of Exercise and Sport Science, College of Health
University of Utah, Salt Lake City, UT
National Multiple Sclerosis Society grant (RG 2922B1/1): *Effect of cooling on physical performance and fatigue in multiple sclerosis patients.*
Mentors: Andrea T. White, PhD and Jack H. Petajan, MD, PhD

- 1996-1997 *Graduate Teaching Assistant*
Department of Exercise and Sport Science, College of Health
University of Utah, Salt Lake City, UT
Mentor: Maurie J. Luetkemeier, PhD
- 1995-1996 *Human Anatomy Laboratory Coordinator*
College of Health Sciences
University of Wyoming, Laramie, WY
- 1994-1996 *Graduate Research & Teaching Assistant*
Human Energy Research Laboratory
Department of Physical and Health Education
University of Wyoming, Laramie, WY
Mentors: John G. Wilkinson, PhD & Ward K. Gates, PhD
- 1993 *Exercise Physiology Intern*
Saint Mary's Heart Institute and Regional Medical Center, Reno, NV
Mentor: William Land, MS and Renee MacDougal, RN, BS

HONORS AND AWARDS:

- 2022 Excellence in Mentoring Award, Office of Engaged Learning, Southern Methodist University. Honors faculty members who have provided our Engaged Learning Fellows exceptional mentoring.
- 2020 American Physiological Society (APS) Publications – 8th most shared article in 2020 across all APS publications (16 journals).
<https://twitter.com/APSPublications/status/1346185197549707269>
- 2019 Editor's Pick March – American College of Sports Medicine (ACSM) Journals. Distinction in scholarship in *Medicine and Science in Sports & Exercise* (MSSE) for the article entitled "*Impaired thermoregulatory function during dynamic exercise in multiple sclerosis*". Editor's Picks are a collection of the very best original research papers published ACSM research journals. Each month, the most outstanding recently published papers are selected by MSSE's Editor-in-Chief and recommended for reading.
- 2017 APSselect – May
Distinction in scholarship in the Journal of Neurophysiology for the article entitled "*Impaired sweating responses to a passive whole-body heat stress in individuals with multiple sclerosis*". APSselect is a collection of the very best original research papers published by the American Physiological Society (APS). Each month, the most outstanding recently published papers from the ten research journals of the APS are selected and made available through a multi-journal website. The article was also selected for a podcast for the *Journal of Neurophysiology*.
<https://www.podbean.com/media/share/pb-unmwv-6ba956?download=1>

2017	President's Associates Outstanding Faculty Award, Southern Methodist University. Given annually to a tenured faculty member for the advancement of teaching and learning. This award is designed to honor faculty who have sustained high achievement as teachers and whose scholarship makes a meaningful contribution to student learning.
2014-2015	International Research Collaboration Award, The University of Sydney, Australia; Competitively reviewed award given to international researchers of high standing to share and disseminate new and original ideas and/or techniques, initiate and undertake collaborative research, and facilitate interaction and training of staff and students.
2014	Nominated for Golden Mustang Outstanding Faculty Award, Southern Methodist University.
2014	Finalist, Student's Association Faculty Award, SMU Student Senate, Southern Methodist University.
2014	Honoring Our Professors' Excellence (HOPE) Award; One of 42 University educators honored by Department of Residence Life and Student Housing, Southern Methodist University.
2013	Honoring Our Professors' Excellence (HOPE) Award; One of 46 University educators honored by Department of Residence Life and Student Housing, Southern Methodist University.
2009-2011	NIH Loan Repayment Program Award; Competitively reviewed award for clinically relevant research, University of Texas Southwestern Medical Center.
2009	Recognition Award for Meritorious Research by a Young Investigator, American Physiological Society-Neural Control & Autonomic Regulation Section.
2005-2007	NIH Loan Repayment Program Award, Competitively reviewed award for clinically relevant research, University of Texas Southwestern Medical Center.
2004-2006	NIH-Individual National Research Service Award, University of Texas Southwestern Medical Center.
2002	Outstanding Doctoral Student Award, Exercise & Sport Science, University of Utah.
2001	Student Award Competition Finalist, Southwest American College of Sports Medicine.
2001	Outstanding Doctoral Student Award, Exercise & Sport Science, University of Utah.
2000-2003	University of Utah Graduate Research Fellowship, University of Utah.
1999	N. P. Neilson Scholarship Award, University of Utah.
1995	Ellbogen Outstanding Teaching Assistant Award nominee, University of Wyoming.
1994	Vern Gale Scholarship Award, University of Wyoming.
1991-1992	Deans Honor Roll, University of Wyoming.
1987-1991	Wyoming Honor Scholarship Award, University of Wyoming.

RESEARCH GRANTS & FUNDING

Current Extramural Funding:

2024-2027 *Bingocize® NTX: An evidence-based health promotion program to improve the quality of life of North Texas certified nursing facility residents Texas*
Texas Health and Human Services
Principal Investigator: **SL Davis**
Funding: \$533,574

Completed Extramural Funding:

2017-2020 *Novel approaches to mitigating heat-related fatigue in individuals with multiple sclerosis*
MS Research Australia
Principal Investigator: O Jay
Funding: \$176,000 (AUS)
Co-Investigator: **SL Davis**

2013-2017 *Clinical outcomes and autonomic mechanisms associated with cardiovascular regulation in MS*
National Multiple Sclerosis Society (RG4696A3/2)
Principal Investigator: **SL Davis**
Funding: \$235,973

2014-2015 *Novel assessment of body temperature regulation in MS patients performing physical activity in the heat.*
MS Research Australia
Principal Investigator: O Jay
Funding: \$21,000 (AUS)
Co-Investigator: **SL Davis**

2014-2015 *Temperature regulation during exercise in MS.*
International Research Collaboration Award, The University of Sydney, Australia
Principal Investigator: **SL Davis**
Funding: \$15,000 (AUS)

2014-2015 *Heat exposure and posture stability in MS patients*
National Multiple Sclerosis Society
Principal Investigator: CG Crandall
Funding: \$44,000
Co-Investigator: **SL Davis**

2013-2015 *Dynamic blood pressure control and orthostatic tolerance in individuals with MS at rest and during heat stress*
NIH Heart Lung and Blood Institute (1 R15 HL117224-01)
Principal Investigator: **SL Davis**
Funding: \$378,962

- 2012-2013 *Is thermoregulatory function impaired in MS patients during exercise in the heat?*
Kuzell Institute for Arthritis and Infectious Diseases (G001218)
Principal Investigator: **SL Davis**
Funding: \$30,000
- 2009-2013 *Control of skin blood flow and sweating in grafted skin*
NIH National Institute of General Medical Sciences (R01GM068865)
Principal Investigator: CG Crandall
Funding: \$1,329,684
Co-Investigator: **SL Davis**
- 2008-2012 *Neural control of skin blood flow and sweating in MS*
National Multiple Sclerosis Society (RG4043A1/1)
Principal Investigator: **SL Davis**
Funding: \$248,158
- 2009-2012 *A validation study of diffusion tensor imaging as a physiologically relevant biomarker of brain tissue integrity in multiple sclerosis*
National Multiple Sclerosis Society (RG4091A3/1)
Principal Investigator: RJ Fox
Funding: \$708,835
Co-Investigator: **SL Davis**
- 2009-2012 *Modeling the pathophysiology of Uhthoff's phenomenon in multiple sclerosis*
National Multiple Sclerosis Society (RG3780A3/3)
Principal Investigator: **SL Davis** & EM Frohman
Funding: \$185,000
- 2008-2012 *The effects of 4-AP on the pathophysiology of MS during thermal stress*
National Multiple Sclerosis Society (PP-1485)
Co-Principal Investigators: **SL Davis** and EM Frohman
Funding: \$44,000
- 2007-2010 *Baroreflex modulation of sympathetic nerve activity in MS patients*
National Multiple Sclerosis Society (PP-1440)
Principal Investigator: **SL Davis**
Funding: \$44,000
- 2004-2007 *Use of ocular function to quantify the effects of thermal stress on multiple sclerosis patients*
National Multiple Sclerosis Society (PP-1040)
Co-Principal Investigators: **SL Davis** and CG Crandall
Funding: \$44,000
- 2004-2006 *Neural control of blood flow in grafted skin*
NIH, National Institute of General Medical Sciences (F32GM071092)
Principal Investigator: **SL Davis**
Funding: \$112,617
- 2002-2003 *Pilocarpine-induced sweat response to 15 weeks of exercise training in individuals with multiple sclerosis*
National Multiple Sclerosis Society (PP-0887)
Co-Principal Investigators: **SL Davis** and AT White
Funding: \$44,000

- 2001-2003 *Antioxidant activity and oxidative damage following exercise training in individuals with multiple sclerosis*
National Multiple Sclerosis Society (PP-0822)
Co-Principal Investigators: **SL Davis** and JH Petajan
Funding: \$33,000
- 1998 *The effects of a mixed-macronutrient antioxidant beverage on markers of oxidative stress and exercise performance*
Nutraceutical International, Park City, UT
Co-Principal Investigators: **SL Davis** and EW Askew
Funding: \$24,900

Completed Intramural Funding:

- 2020 *Implementation of Biopac Student Home Lab Kits for remote learning in the Applied Physiology laboratory curriculum.*
Just-In-Time Teaching and Technology Grant, Southern Methodist University, Dallas, TX
Principal Investigator: **SL Davis**
Funding: \$500
- 2015 *Interactive system allowing collaborative involvement and interaction of students within the classroom.*
Just-In-Time Teaching and Technology Grant, Southern Methodist University, Dallas, TX
Principal Investigator: **SL Davis**
Funding: \$1,072
- 2012-2013 *Using iPad interactive 3-dimensional dissection software to investigate and identify human muscular structure and function*
Provost Instructional Technology Grant, Southern Methodist University, Dallas, TX
Principal Investigator: **SL Davis**
Funding: \$2,700
- 2012-2013 *Improved orthostatic tolerance with head cooling during whole-body heating*
University Research Council Grant, Southern Methodist University, Dallas, TX
Principal Investigator: **SL Davis**
Funding: \$10,000
- 2001 Research Instrumentation Grant, University of Utah, Salt Lake City, UT
Co-Principal Investigators: **SL Davis** and EW Askew
Funding: \$15,383
- 2000 *Antioxidant activity and oxidative damage following exercise training in individuals with multiple sclerosis*
Graduate Research Fellowship, University of Utah, Salt Lake City, UT
Principal Investigator: **SL Davis**
Funding: \$10,000
- 1995 *Effect of high-intensity interval cycling on markers of immune function*
College of Health Sciences, University of Wyoming, Laramie, WY
Co-Principal Investigators: **SL Davis** and TE Wilson
Funding: \$2,000

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1995 *Effects of "in season" training and subsequent taper on road cycling performance*
College of Health Sciences, University of Wyoming, Laramie, WY
Co-Principal Investigators: **SL Davis** and TE Wilson
Funding: \$3,500

Awarded Funding to Students:

2022-2023 Claire Trotter (PhD Student)
Alterations to cardiovascular control in females with multiple sclerosis at rest and during stress
AHA Pre-doctoral Fellowship (915655)
American Heart Association
Award: \$32,036
Role: Faculty Supervisor

2022 Alex Smith (Undergraduate Student)
Altered thermal pain thresholds in individuals with multiple sclerosis
SMU Engaged Learning Fellowship (ELF)
SMU Office of Engaged Learning
Award: \$2,000
Role: Faculty Supervisor

2020 Claire Trotter (PhD Student)
Alterations to muscle sympathetic nerve activity in multiple sclerosis
Doctoral Student Research Grant
American College of Sports Medicine Foundation
Award: \$4,960
Role: Faculty Supervisor

2020-2021 Claire Trotter (PhD Student)
Impact of a mindfulness-based training program on the stress response to acute sympatho-excitatory stimuli
Student Research Development Award
Texas Chapter-American College of Sports Medicine
Award: \$2,000
Role: Faculty Supervisor

2015-2016 Mu Huang (PhD Student)
Thermoregulatory dysfunction in multiple sclerosis patients during moderate exercise in a thermoneutral environment
Student Research Development Award
Texas Chapter-American College of Sports Medicine
Award: \$1,000
Role: Faculty Supervisor

PUBLICATIONS

Manuscripts Published in Peer Reviewed Journals:

^{*}indicates graduate student; [†]indicates undergraduate student

- Wakeham DJ, Hissen SL, MacNamara JP, **Davis SL**, Fadel PJ, Benjamin D. Levine BD, & Hearon Jr CM. Functional sympatholysis of Neuropeptide Y-mediated vasoconstriction in humans. *Journal of Physiology*, 2025 May 31. Online ahead of print. PMID: 40448698.
- Chaseling G, Blackett K, Vucic S, Barnett M, **Davis SL**, Jay O, Vargas NT. The effect of cold-water mouth swilling on thermal perceptions and heat-related symptoms for people with multiple sclerosis exercising in a hot environment. *European Journal of Applied Physiology*, 2025 Apr 5. Online ahead of print. PMID: 40186657.
- Kissell CE^{*}, Young BE, Jarrard CP^{*}, Huang M, Allen DR, Okuda DT, Smith SA, Fadel PJ, **Davis SL**. Reduced resting beat-to-beat blood pressure variability in females with relapsing-remitting multiple sclerosis. *Multiple Sclerosis and Related Disorders* 83:105416, 2024. PMID: 38244526.
- Vargas NT, Chapman CL, Reed EL, Lizarraga A, Fisher NM, **Davis SL**, Schlader ZJ. Voluntary cooling during exercise is augmented in people with multiple sclerosis who experience heat sensitivity. *Medicine and Science in Sports and Exercise* 53: 2405-2418, 2021.
- Chaseling GK^{*}, Filingeri D, Allen DR^{*}, Barnett M, Vucic S, **Davis SL**, and Jay O. Blunted sweating does not alter the rise in core temperature in people with multiple sclerosis exercising in the heat. *American Journal of Physiology Regulatory, Integrative and Comparative Physiology*. 320: R258-R267, 2021.
- Luetkemeier MJ, Allen DR^{*}, Huang M^{*}, Pizzey FK[†], Parupia IM[†], Wilson TE, and **Davis SL**. Skin tattooing impairs sweating during passive whole-body heating. *Journal of Applied Physiology* 129: 1033-1038, 2020.
- Filingeri D, Chaseling G^{*}, Christogianni A^{*}, Feka K, Bianco A, **Davis SL**, and Jay O. Individualized analysis of skin thermosensory thresholds and sensitivity in heat-sensitive people with multiple sclerosis. *Temperature* 8: 21-29, 2020.
- Allen DR^{*}, Huang M^{*}, Morris NB^{*}, Chaseling GK^{*}, Frohman EM, Jay O, and **Davis SL**. Impaired thermoregulatory function during dynamic exercise in multiple sclerosis. *Medicine and Science in Sports and Exercise* 51: 395-404, 2019.
- Chaseling GK^{*}, Allen DR^{*}, Vucic S, Barnett M, Frohman E, **Davis SL**, and Jay O. Core temperature is not elevated at rest in people with relapsing-remitting multiple sclerosis. *Multiple Sclerosis and Related Disorders* 29: 62-6, 2019.
- Huang M^{*}, Frantz J^{*}, Morales G, Sabo T, Davis PF, **Davis SL**, Bell KR, and Purkayastha S. Reduced resting and increased elevation of heart rate variability with cognitive task performance in concussed athletes. *Journal of Head Trauma and Rehabilitation* 34: 45-51, 2019.
- **Davis SL**, Jay O, and Wilson TE. Thermoregulatory dysfunction in multiple sclerosis. *Handbook of Clinical Neurology* 157: 701-714, 2018.

- Christogianni A*, Bibb R, **Davis SL**, Jay O, Barnett M, Evangelou N, and Filingeri D. Temperature sensitivity in multiple sclerosis: An overview of its impact on sensory and cognitive symptoms. *Temperature* 5: 208-223, 2018.
- Chaseling GK*, Filingeri D, Barnett M, Hoang P, **Davis SL**, and Jay O. Cold-water ingestion improves exercise tolerance of heat-sensitive people with MS. *Medicine and Science in Sports and Exercise* 50: 643-648, 2018.
- Hubbard NA*, Turner MP, Ouyang M, Himes L, Thomas BP, Hutchison JL, Faghihahmadabadi S, **Davis SL**, Strain JF, Spence J, Krawczyk DC, Huang H, Lu H, Hart J Jr, Frohman TC, Frohman EM, Okuda DT, and Rypma B. Calibrated imaging reveals altered grey matter metabolism related to white matter microstructure and symptom severity in multiple sclerosis. *Human Brain Mapping* 38: 5375-5390, 2017.
- Filingeri D, Chaseling G*, Hoang P, Barnett M, **Davis SL**, and Jay O. Afferent thermosensory function in relapsing-remitting multiple sclerosis following exercise-induced increases in body temperature. *Experimental Physiology* 102: 887-893, 2017.
- Allen DR*, Huang M*, Parupia IM[†], Dubelko AR[†], Frohman EM, and **Davis SL**. Impaired sweating responses to a passive whole-body heat stress in individuals with multiple sclerosis. *Journal of Neurophysiology* 118: 7-14, 2017.
- Poh PYS, Adams AN, Huang M*, Allen DR*, **Davis SL**, Teng AS, and Crandall CG. Increased postural sway in persons with multiple sclerosis during short-term exposure to warm ambient temperatures. *Gait and Posture* 53: 230-235, 2017.
- Pearson J, Ganio MS, Schlader ZJ, Lucas RAI, Gagnon D, Rivas E, **Davis SL**, Kowalske KJ, and Crandall CG. Post-junctional sudomotor and cutaneous vascular responses in non-injured skin following heat acclimation in burn survivors. *Journal of Burn Care and Research* 38: e284-e292, 2017.
- Hubbard NA*, Turner M, Hutchison JL, Ouyang A, Strain J, Oasay L, Sundaram S, **Davis SL**, Remington GM, Brigante R, Huang H, Hart J Jr, Frohman TC, Frohman EM, Biswal BB, and Rypma B. Multiple sclerosis-related white matter microstructural change alters the BOLD hemodynamic response. *Journal of Cerebral Blood Flow and Metabolism* 36: 1872-84, 2016.
- Huang M*, Allen DR*, Keller DM, Fadel PJ, Frohman EM, and **Davis SL**. Impaired carotid baroreflex control of arterial blood pressure in multiple sclerosis. *Journal of Neurophysiology* 116: 81-7, 2016.
- Sandroff BM, Motl RW, and **Davis SL**. Effects of vigorous walking exercise on core body temperature and inhibitory control in thermosensitive persons with multiple sclerosis. *Neurodegenerative Disease Management* 6: 13-21, 2016.
- Hubbard NA*, Hutchison JL, Turner MP, Sundaram S, Oasay L, Robinson D, Strain J, Weaver T, **Davis SL**, Remington GM, Huang H, Biswal BB, Hart J, Frohman TC, Frohman EM, and Rypma B. Asynchrony in executive networks predicts cognitive slowing in multiple sclerosis. *Neuropsychology* 30: 75-86, 2016.
- Frohman AN, Okuda DT, Beh S, Treadaway K, Mooi C, **Davis SL**, Shah A, Frohman TC, and Frohman EM. Aquatic training in MS: neurotherapeutic impact upon quality of life. *Annals of Clinical and Translational Neurology* 2: 864-72, 2015.
- Huang M*, Jay O, and **Davis SL**. Autonomic dysfunction in multiple sclerosis: implications for exercise. *Autonomic Neuroscience* 188: 82-85, 2015.

- Keller DM, Fadel PJ, Harnsberger MA, Remington GM, Frohman EM, and **Davis SL**. Reduced spontaneous sympathetic nerve activity in multiple sclerosis patients. *Journal of Neurological Sciences* 344: 210-4, 2014.
- Muppidi S, Adams-Huet B, Tajzoy E, Scribner M, Blazek P, Spaeth EB, Frohman EM, **Davis SL**, and Vernino S. Dynamic pupillometry as an autonomic testing tool. *Clinical Autonomic Research* 23: 297-303, 2013.
- Frohman TC, **Davis SL**, Beh S, Greenberg BM, Remington G, and Frohman EM. Uhthoff's phenomena in MS--clinical features and pathophysiology. *Nature Reviews Neurology* 9: 535-40, 2013.
- White AT, Vener JM, Van Haitsma T, and **Davis SL**. Effect of passive whole-body heating on central conduction and cortical excitability in multiple sclerosis patients and healthy controls. *Journal of Applied Physiology* 114: 1697-704, 2013.
- Blazek P, **Davis SL**, Greenberg BM, Conger A, Conger D, Vernino S, Beh S, Stuve O, Saidha S, Ratchford JN, Green A, Calabresi PA, Balcer LJ, Frohman TC, and Frohman EM. Objective characterization of the relative afferent pupillary defect in MS. *Journal of Neurological Sciences* 323: 193-200, 2012.
- Wenner MM, Wilson TE, **Davis SL**, and Stachenfeld NS. Pharmacological curve fitting to analyze cutaneous adrenergic responses. *Journal of Applied Physiology* 111: 1703-9, 2011.
- Frohman TC, **Davis SL**, Frohman EM. Modeling the mechanisms of Uhthoff's phenomenon in MS patients with internuclear ophthalmoparesis. *Annals of the New York Academy of Sciences* 1233: 313-9, 2011.
- Sakaie K, Takahashi M, Dimitrov I, Togao O, **Davis SL**, Remington GM, Conger A, Conger D, Frohman TC, Fox R, and Frohman EM. Diffusion tensor imaging the medial longitudinal fasciculus in INO: opportunities and challenges. *Annals of the New York Academy of Sciences* 1233: 307-12, 2011.
- Cui J, Shibasaki M, Low DA, Keller DM, **Davis SL**, and Crandall CG. Muscle sympathetic responses during orthostasis in heat-stressed individuals. *Clinical Autonomic Research* 21: 381-7, 2011.
- Frohman TC, Castro W, Shah A, Courtney A, Ortstadt J, **Davis SL**, Logan D, Abraham T, Abraham J, Remington G, Treadaway K, Graves D, Hart J, Stuve O, Lemack G, Greenberg B, and Frohman EM. Symptomatic therapy in multiple sclerosis. *Therapeutic Advances in Neurological Disorders* 4: 83-98, 2011.
- Courtney AM, Castro-Borrero W, **Davis SL**, Frohman TC, and Frohman EM. Functional treatments in multiple sclerosis. *Current Opinion in Neurology* 24: 250-4, 2011.
- Keller DM, Low DA, **Davis SL**, Hastings J, and Crandall CG. Skin surface cooling improves orthostatic tolerance following prolonged head-down bed rest. *Journal of Applied Physiology* 110: 1592-7, 2011.
- Cui J, Shibasaki M, Low DA, Keller DM, **Davis SL**, and Crandall CG. Heat stress attenuates the increase in arterial blood pressure during the cold pressor test. *Journal of Applied Physiology* 109: 1354-9, 2010.
- **Davis SL**, Wilson TE, White AT, and Frohman EM. Thermoregulation in multiple sclerosis. *Journal of Applied Physiology* 109: 1531-7, 2010.
- Crandall CG and **Davis SL**. Cutaneous vascular and sudomotor responses in human skin grafts. *Journal of Applied Physiology* 109: 1524-30, 2010.

- **Davis SL** and Crandall CG. Heat stress alters hemodynamic responses during the Valsalva maneuver. *Journal of Applied Physiology* 108: 1591-4, 2010.
- Miles B, **Davis SL**, Crandall CG, and Ellis E. Laser-Doppler examination of the blood supply in pericranial flaps. *Journal of Oral and Maxillofacial Surgery* 68: 1740-5, 2010.
- Shibasaki M, **Davis SL**, Cui J, Low DA, Keller DM, and Crandall CG. Botulinum toxin abolishes sweating via impaired sweat gland responsiveness to exogenous acetylcholine. *British Journal of Dermatology* 161: 757-61, 2009.
- **Davis SL**, Shibasaki M, Low DA, Cui J, Keller DM, Wingo JE, Purdue GF, Hunt JL, Arnoldo BD, Kowalske KJ, and Crandall CG. Sustained impairments in cutaneous vasodilation and sweating in grafted skin following long term recovery. *Journal of Burn Care and Research* 30: 675-685, 2009.
- Low DA, Wingo JE, Keller DM, **Davis SL**, Cui J, Zhang R, and Crandall CG. Dynamic cerebral autoregulation during passive heat stress in humans. *American Journal of Physiology Regulatory Integrative and Comparative Physiology* 296: R1598-605, 2009.
- Cui J, Shibasaki M, **Davis SL**, Low DA, Keller DM, and Crandall CG. Whole body heat stress attenuates baroreflex control of muscle sympathetic nerve activity during postexercise muscle ischemia. *Journal of Applied Physiology* 106: 1125-31, 2009.
- Keller DM, Low DA, Wingo JE, Brothers RM, Hastings JL, **Davis SL**, and Crandall CG. Acute volume expansion preserves orthostatic tolerance during whole-body heat stress in humans. *Journal of Physiology (London)* 587: 1131-9, 2009.
- Shibasaki M, Low DA, **Davis SL**, and Crandall CG. Nitric oxide inhibits cutaneous vasoconstriction to exogenous norepinephrine. *Journal of Applied Physiology* 105: 1504-1508, 2008.
- Mills DA, Frohman TC, **Davis SL**, Salter AR, McClure S, Beaty I, Shah A, Galetta S, Eggenberger E, Zee DS, and Frohman EF. Break in binocular fusion during head turning in MS patients with INO. *Neurology* 78: 458-461, 2008.
- Wingo JE, Low DA, Keller DM, **Davis SL**, Purdue GF, Hunt JL, Kowalske KJ, and Crandall CG. Heat acclimation of an adult female with a large surface area of grafted skin. *Journal of Burn Care and Research* 29: 848-851, 2008.
- Low DA, Wingo JE, Keller DM, **Davis SL**, Zhang R, and Crandall CG. Cerebrovascular responsiveness to steady-state changes in end-tidal CO₂ during passive heat stress. *Journal of Applied Physiology* 104: 976-81, 2008.
- Low DA, **Davis SL**, Keller DM, Shibasaki M, and Crandall CG. Cutaneous and hemodynamic responses during hot flashes in symptomatic postmenopausal women. *Menopause* 15: 290-95, 2008.
- **Davis SL**, Frohman TC, Crandall CG, Brown MJ, Mills DA, Kramer PD, Stüve O, and Frohman EM. Modeling Uhthoff's phenomenon in MS patients with internuclear ophthalmoparesis (INO). *Neurology* 70: 1098-1106, 2008.
- **Davis SL**, Shibasaki M, Low DA, Cui J, Keller DM, Purdue GF, Hunt JL, Arnoldo BD, Kowalske KJ, and Crandall CG. Cutaneous vasoconstriction during whole-body and local cooling in grafted skin 5-9 months post-surgery. *Journal of Burn Care and Research* 29: 36-41, 2008.

- Shibasaki M, Durand S, **Davis SL**, Cui J, Low DA, Keller DM, and Crandall CG. Endogenous nitric oxide attenuates neurally mediated cutaneous vasoconstriction. *Journal of Physiology (London)* 585: 627-34, 2007.
- Low DA, Vu A, Brown M, **Davis SL**, Keller DM, Levine BD, and Crandall CG. Temporal thermometry fails to track body core temperature during heat stress. *Medicine and Science in Sports and Exercise* 39: 1029-35, 2007.
- **Davis SL**, Shibasaki M, Low DA, Cui J, Keller DM, Purdue GF, Hunt JL, Arnoldo BD, Kowalske KJ, and Crandall CG. Crandall. Skin grafting impairs post-synaptic cutaneous vasodilator and sweating responses. *Journal of Burn Care and Research* 28: 435-41, 2007.
- **Davis SL**, Shibasaki M, Low DA, Cui J, Keller DM, Purdue GF, Hunt JL, Arnoldo BD, Kowalske KJ, and Crandall CG. Impaired cutaneous vasodilation and sweating in grafted skin during whole-body heating. *Journal of Burn Care and Research* 28: 427-34, 2007.
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- Keller DM, **Davis SL**, Low DA, Shibasaki M, Raven PB, and Crandall CG. Carotid baroreceptor stimulation alters cutaneous vascular conductance during whole-body heating. *Journal of Physiology (London)* 577: 925-33, 2006.
- Shibasaki M, **Davis SL**, Cui J, Low DA, Keller DM, Durand S, and Crandall CG. Neurally mediated vasoconstriction is capable of decreasing skin blood flow during orthostasis in the heat stressed human. *Journal of Physiology (London)* 575: 953-59, 2006.
- Keller DM, Cui J, **Davis SL**, Low DA, and Crandall CG. Heat stress enhances arterial baroreflex control of muscle sympathetic nerve activity via increased sensitivity of burst gating, not burst area, in humans. *Journal of Physiology (London)* 573: 445-51, 2006.
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- **Davis SL**, Fadel PJ, Cui J, Thomas GD, and Crandall CG. Skin blood flow influences near infrared spectroscopy derived measurements of tissue oxygenation during heat stress. *Journal of Applied Physiology* 100: 221-4, 2006.
- **Davis SL**, Wilson TE, Vener JM, Crandall CG, Petajan JH, and White AT. Pilocarpine-induced sweat gland function in individuals with multiple sclerosis. *Journal of Applied Physiology* 98: 1740-4, 2005.
- Durand S, **Davis SL**, Cui J, and Crandall CG. Exogenous nitric oxide inhibits sympathetically mediated vasoconstriction in human skin. *Journal of Physiology (London)* 562: 629-34, 2005.
- Crandall CG, Meyer DM, **Davis SL**, and Dellaria SM. Palmar skin blood flow and temperature responses throughout endoscopic sympathectomy. *Anesthesia and Analgesia* 100: 277-83, 2005.
- White AT, **Davis SL**, and Wilson TE. Metabolic, thermoregulatory, and perceptual responses during exercise after lower vs. whole body precooling. *Journal of Applied Physiology* 94: 1039-44, 2003.

- Subudhi AW, **Davis SL**, Askew EW, Walker JA, and Johnson SC. Time course of urinary oxidative stress markers following sub-maximal and maximal exercise. *Journal of Human Movement Studies* 43: 35-47, 2002.
- Wilson TE, Johnson SC, Petajan JH, **Davis SL**, Gappmaier E, Luetkemeier MJ, and White AT. Thermal regulatory responses to submaximal cycling following lower-body cooling in humans. *European Journal of Applied Physiology and Occupational Physiology* 88: 67-75, 2002.
- Subudhi AW, **Davis SL**, Kipp RW, and Askew EW. Antioxidant status and oxidative stress in elite alpine ski racers. *International Journal of Sport Nutrition and Exercise Metabolism* 11: 32-41, 2001.
- White AT, Wilson TE, **Davis SL**, and Petajan JH. Effect of precooling on physical performance in multiple sclerosis. *Multiple Sclerosis* 6: 176-180, 2000.

Book Chapters:

- **Davis SL**, Jay O, and Wilson TE. Thermoregulatory dysfunction in multiple sclerosis. In: *Thermoregulation: from basic sciences to clinical neurology*, edited by Romanovsky A. Elsevier, 2018.
- Shibasaki M and **Davis SL**. Human perspiration and cutaneous circulation. In: *Fluid Balance, Hydration and Athletic Performance*, edited by Meyer F, Szygula Z, and Wilk B. CRC Press, 2015, p 33-58.
- **Davis SL** and Frohman EM. Heat sensitivity: Uhthoff's phenomenon. In: *Multiple Sclerosis for the Physician Assistant*, edited by Frohman TC, O'Donoghue DL, and Northrup D. New York: National Multiple Sclerosis Society, 2011, p 98-101.
- Shah A, **Davis SL**, Bates A, Lemack G, Frohman TC, and Frohman EM. Symptomatic therapy in multiple sclerosis. In: *Multiple Sclerosis 3 - Blue Books of Neurology Series*, edited by Lucchinetti CF and Hohlfeld R. Philadelphia: Saunders Elsevier, 2010, p 316-354.

PRESENTATIONS

International Invited Oral Presentations:

- Invited Speaker, Faculty of Health Sciences, University of Sydney, Sydney, Australia. *Thermoregulatory control of skin blood flow and sweating in multiple sclerosis*. June 2015.
- Invited Speaker, Neuroscience Research Australia, Sydney, Australia. *Thermoregulatory control of skin blood flow and sweating in multiple sclerosis*. June 2015.

National, Local, & University Invited Oral Presentations/Seminars

- Invited Speaker, Past-President's Lecture, 2023 Texas American College of Sports Medicine Annual Meeting, Waco, TX. *Autonomic dysfunction in multiple sclerosis: Implications on thermoregulatory function*. February 2023.
- Invited Speaker, 2021 Fort Benning Heat Forum, United States Army, Fort Benning Heat Center, Fort Benning, GA. *Skin tattooing impairs sweating during passive whole-body heating*. February 2021.

- Invited Speaker, Natural Science Seminar, Department of Integrative Physiology and Health Science, Alma College, Alma, MI. *Autonomic dysfunction in multiple sclerosis: Baroreflex control of heart rate & blood pressure*. October 2018.
- Invited Speaker, College of Applied Health Sciences, University of Illinois at Chicago, Chicago, IL. *Autonomic dysfunction in multiple sclerosis: Implication for thermoregulatory function*. November 2017.
- Invited Speaker, Department of Exercise & Nutrition Sciences, School of Public Health and Health Professions, University of Buffalo, Buffalo, NY. *Autonomic impairments in blood pressure control in multiple sclerosis*. October 2015.
- Invited Speaker, The Sylvie 2014 Celebration Awards and 2015 Bike MS Kick Off, National Multiple Sclerosis Society, Dallas, TX. *Rehabilitation research update: Impact of support on research in North Texas*. September 2014.
- Invited Speaker, Symposium: Aging and Pathophysiology in Skin Blood Flow Control: Implications for Exercise Thermoregulation, American College of Sports Medicine annual meeting, Indianapolis, IN. *Thermoregulatory control of skin blood flow and sweating in multiple sclerosis during exercise*. June 2013.
- Invited Speaker, Featured Topic Symposium: Microvascular Responses and Thermoregulatory Control in Normal and Clinical Populations (sponsored by American Physiological Society Environmental and Exercise Physiology Section), Experimental Biology 2013 annual meeting, Boston, MA. *Thermoregulatory control of skin blood flow and sweating in multiple sclerosis*. April 2013.
- Invited Speaker, Texas American College of Sports Medicine Lecture, Department of Kinesiology, University of Texas at Arlington, Arlington, TX. *Thermoregulatory dysfunction in multiple sclerosis: A "heated" discussion*. March 2013.
- Invited Speaker, Capra Research Symposium-Multiple Sclerosis: Diagnosis, Treatment & Management, School of Health Professions, University of Texas Southwestern Medical Center, Dallas, TX. *Understanding autonomic dysfunction in multiple sclerosis*. March 2013.
- Invited Speaker, National Multiple Sclerosis Society Physician Training Program, University of Texas Southwestern Medical Center, Dallas, TX. *Impaired thermoregulation in multiple sclerosis*. 2010-current.
- Invited Speaker, National Multiple Sclerosis Society Nurse Training Program, University of Texas Southwestern Medical Center, Dallas, TX. *Impaired thermoregulation in multiple sclerosis*. 2010-current.
- Invited Speaker, Research on Exercise & Wellness Group Colloquium Series, Southern Methodist University. *Autonomic dysfunction in multiple sclerosis: Impact on exercise & thermoregulation*. January 2012.
- Invited Speaker, College of Science and Health Symposium Series, Utah Valley University, Orem, UT. *Autonomic dysfunction in multiple sclerosis: A "heated" discussion*. November 2009.
- Invited Speaker, Metroplex Scientific MS Research Symposium, National Multiple Sclerosis Society - Lone Star Chapter, Dallas, TX. *What does MS do to nervous system function?* May 2008.

- Invited Speaker, Research Symposium, National Multiple Sclerosis Society - Utah State Chapter, Salt Lake City, UT. *MS patient management, care, and rehabilitation - current research*. March 2008.
- Invited Speaker, Graduate Seminar, University of Utah, Salt Lake City, UT. *Neural control of skin blood flow and sweating in grafted skin*. March 2008.
- Invited Speaker, Missouri State University, Springfield, MO. *Thermoregulatory dysfunction in multiple sclerosis*. February 2006.
- Invited Speaker, STARS Mini-Symposium, University of Texas Southwestern Medical Center, Dallas, TX. *Heat illness*. August 2004.

Conference Oral Research Presentations:

- **Davis SL**, Shibasaki M, Cui J, Low DA, Keller DM, Hunt JL, Purdue GF, Arnoldo BD, Kowalske KJ, and Crandall CG. (2007). *Cutaneous vasoconstriction during whole-body and local cooling in grafted skin 5-9 months post-surgery*. Slide presentation at American Burn Association annual meeting, San Diego, CA.
- **Davis SL**, Shibasaki M, Cui J, Low DA, Keller DM, Hunt JL, Purdue GF, Arnoldo BD, Kowalske KJ, and Crandall CG. (2006). *Impaired cutaneous vasodilation and sweating in grafted skin during heat stress 6-9 months post-surgery*. Slide presentation at American Burn Association annual meeting, Las Vegas, NV.
- **Davis SL**, Shibasaki M, Cui J, Chukwumah OB, Hunt JL, Purdue GF, Arnoldo BD, Kowalske KJ, and Crandall CG. (2005). *Impaired nitric oxide mediated cutaneous vasodilation in juvenile grafted skin*. Slide presentation at American Burn Association annual meeting, Chicago, IL.
- **Davis SL**, Vener JM, Wilson TE, and White AT. (2003). *Pilocarpine induced sweat response following training in individuals with multiple sclerosis*. Slide presentation at American College of Sports Medicine annual meeting, San Francisco, CA.
- **Davis SL**, Vener JM, Wilson TE, Schaffer RA, and White AT. (2002). *Pilocarpine induced sweat response in multiple sclerosis patients*. Slide presentation at American College of Sports Medicine annual meeting, Saint Louis, MO.
- **Davis SL**, Wilson TE, Schaffer RA, Dolan RL, and White AT. (2001). *Exercise and thermoregulatory responses to lower limb and whole-body precooling*. Slide presentation at American College of Sports Medicine annual meeting, Baltimore, MD.

STUDENT SUPERVISION & TEACHING

Student Research Training:

Graduate Thesis, Dissertation, Doctoral Qualifying Exam Committee Chair:

- | | |
|-----------|---|
| 2018-2023 | Claire E. Trotter
Dissertation Committee Chair
PhD, Department of Applied Physiology & Sport Management, Simmons School of Education & Human Development, Southern Methodist University
Dissertation title: <i>Alterations to cardiovascular control in females with relapsing-remitting multiple sclerosis at rest and during stress.</i> |
| 2014-2018 | Dustin R. Allen
Dissertation Committee Chair
PhD, Department of Applied Physiology & Wellness, Simmons School of Education & Human Development, Southern Methodist University
Dissertation title: <i>Thermoregulatory dysfunction in multiple sclerosis.</i> |
| 2013-2017 | Mu Huang
Dissertation Committee Chair
PhD, Department of Applied Physiology & Wellness, Simmons School of Education & Human Development, Southern Methodist University
Dissertation title: <i>Impairments in autonomic control of cardiovascular function in multiple sclerosis.</i> |

Graduate Thesis, Dissertation, Doctoral Qualifying Exam Committee Member:

- | | |
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| 2019-2023 | Emily McClelland
Dissertation Committee Member
PhD, Department of Applied Physiology & Sport Management, Simmons School of Education & Human Development, Southern Methodist University |
| 2016-2018 | Andrew Udofa
Dissertation Committee Member
PhD, Department of Applied Physiology & Wellness, Simmons School of Education & Human Development, Southern Methodist University
Dissertation title: <i>Investigating the mechanical determinants of running ground reaction forces by adding weight, changing footwear, and maximizing speed.</i> |
| 2016 | KiYoung Kim
Dissertation Committee Member
PhD, Department of Kinesiology and Health Education, University of Texas at Austin
Dissertation title: <i>Mechanisms of cutaneous microvascular endothelial dysfunction in young black Americans.</i> |

- 2015-2016 Nicholas Hubbard
Dissertation Committee Member
PhD, Cognition and Neuroscience, School of Behavioral and Brain Sciences, University of Texas at Dallas
Dissertation title: *Physiological mechanisms of visual cortex blood-oxygen-level dependent signal changes in multiple sclerosis.*
- 2013-2016 Margaret Sala
Thesis Committee Member
PhD, Department of Psychology, Dedman College of Humanities & Sciences, Southern Methodist University
Thesis title: *Post-exercise affective response: Examining differences between regular and infrequent exercisers.*
- 2013-2016 Meara Wietzman
Dissertation Committee Member
PhD, Department of Psychology, Dedman College of Humanities & Sciences, Southern Methodist University
Dissertation title: *Perception and function of pain in non-suicidal self-injury: A laboratory investigation.*
- 2015 Chansol Hurr
Dissertation Committee Member
PhD, Department of Kinesiology and Health Education, University of Texas at Austin
Dissertation title: *Cerebral and peripheral microvascular function in individuals with elevated cardiovascular disease risk.*
- 2012-2014 Kenneth P. Clark
Dissertation Committee Member
PhD, Department of Applied Physiology & Wellness, Simmons School of Education & Human Development, Southern Methodist University
Dissertation title: *Ground force application during running determines function and dysfunction.*
- 2012-2013 Noelle Bassi Smith
Dissertation Committee Member
PhD, Department of Psychology, Dedman College of Humanities & Sciences, Southern Methodist University
Dissertation title: *Physiological reactivity to pain in self-injurers: An in-depth investigation.*

Research Assistant/Associate Trainees:

- 2014 Jennifer O'Dalys Robb
McNair Scholar Program, Undergraduate program with goal of increasing graduate degrees in underrepresented socio-economic and ethnic groups.
Southern Methodist University
Research Topic: *Characteristics that lead to attrition in a faith-based weight loss program for African Americans.*
(Resulted in abstract accepted for publication and poster presentation at the Society for Advancement of Hispanics/Chicanos and Native Americans in Science National Conference, Los Angeles, 2014.)
Role: Faculty Research Mentor
- 2009-2010 Paul Blazek, Coppell High School, Coppell, TX
Research Mentor
STARS Program, Summer Research Program for High School Students
University of Texas Southwestern Medical Center
Research Topic: *Objective characterization of the relative afferent pupillary defect in MS.* (Resulted in published manuscript in the *Journal of Neurological Sciences*, 2012.)
Role: Faculty Research Mentor

Undergraduate Internship (APSM 5610): Capstone experiential internship at an organization or entity for a total of 250 or more hours.

- 2018 Wendy Birdsall, Integrative Physiology Laboratory, Southern Methodist University
- 2016 Ariana Dubelko, Integrative Physiology Laboratory, Southern Methodist University
Iqra Parupia, Multiple Sclerosis Clinic, University of Texas Southwestern Medical Center
- 2015 Sarah Bailey, Integrative Physiology Laboratory, Southern Methodist University
Caroline Bartelsmeyer, Multiple Sclerosis Clinic, University of Texas Southwestern Medical Center
- 2014 Paul Anderson, Applied Physiology Laboratory, Southern Methodist University
Braeden Newton, Multiple Sclerosis Clinic, University of Texas Southwestern Medical Center
- 2012 Jizalphons Pallathumadom, Multiple Sclerosis Clinic, University of Texas Southwestern Medical Center
- 2011 Silje Fjortoft, Applied Physiology Laboratory, Southern Methodist University
Monika Korra, Applied Physiology Laboratory, Southern Methodist University

Undergraduate Research Practicum (APSM 4361/5361): Students conducting supervised research in the Integrative Physiology Laboratory. Enrollment is by invitation only.

2023-2024	Camryn Bradley Nate Monticure Zach Oldham
2022-2023	Kaitlyn Gearin Zach Oldham Raelyn Roberson
2021-2022	Alex Smith Kaitlyn Gearin Helena Knoll Raelyn Roberson
2018-2019	Anna Leigh Collier Sidney Lavigne Lexi Platz Noah Slusher
2017-2018	Ursa Bezan Kelly Lenz Lexi Platz
2016-2017	Christopher Anders Kelly Lenz Faith Pizzey Iqra Parupia Kaci Rood
2015-2016	Ursa Bezan Ariana Dubelko Iqra Parupia Claire Trotter
2014-2015	Paul Anderson Brooke Landrum Kaitlyn Maffuid Olivia Warner
2013-2014	Brooke Landrum Braeden Newton Steven Schiele Kenzie Scovill
2012-2013	Brooke Landrum Steven Schiele

Advancing Physical Therapy (APT) Students: SMU students accepted to Doctor of Physical Therapy Program at the University of Texas Southwestern Medical Center

2025	Kate Janzen
2022	Quinn Callier
2021	Jessica Cooley

2020	Meredith Dalton
2019	Maddy Ferraro Austin Harris Susie Kim
2018	Mary Elise Waller
2017	Dalia El-Hag Emily Frisby Zachary Harward Rose Montonchaikul
2016	Laura Henderson Jasmine Richardson
2015	Kaitlyn Eastman Avis Jason Brooke Landrum Abigail Marchesseault Linh Nguyen Christopher Scott
2014	Kenzie Scovill Shradha Singh
2012	Christina Echevaria

Trainee Awards and Recognition:

Claire E. Trotter (PhD Student)

2024	Michael J. Brody Young Investigator Award* American Physiological Society-Neural Control & Autonomic Regulation Section American Physiology Summit, Long Beach, CA *Recognizes a promising young investigator who has made a significant research contribution to the understanding of neural control and autonomic regulation. Award: \$1,000
2023	Research Recognition Award* American Physiological Society-Neural Control & Autonomic Regulation Section American Physiology Summit, Long Beach, CA *Recognizes outstanding research by graduate students and postdoctoral fellows who present a first author abstract at the American Physiology Summit. Abstract Title: <i>Blunted sympathetic transduction to blood pressure in females with relapsing-remitting multiple sclerosis</i> Award: \$500
2023	Outstanding PhD Student Award Simmons School of Education & Human Development Southern Methodist University, Dallas, TX

- 2023 Dean's Departmental Award
SMU Research Day, Southern Methodist University, Dallas, TX
Abstract Title: *Pressor and sympathetic responses to graded skeletal muscle metaboreflex activation in females with relapsing-remitting multiple sclerosis*
Award: \$250
- 2023 Poster Award – 2nd Place-PhD Category
Texas Chapter-American College of Sports Medicine Annual Meeting, Waco, TX
Abstract Title: *Pressor and sympathetic responses to graded skeletal muscle metaboreflex activation in females with relapsing-remitting multiple sclerosis*
Award: \$175
- 2022 Graduate Three Minute Thesis Competition– 1st Place*
Moody Graduate School, Southern Methodist University, Dallas, TX
Title: *Alterations to cardiovascular control in females with multiple sclerosis*
Award: \$800
*Represented SMU at the Conference of Southern Graduate School Three Minute Thesis Regional Competition in Tampa, FL.
- 2022 Dean's Departmental Award
SMU Research Day, Southern Methodist University, Dallas, TX
Abstract Title: *Spontaneous cardiovascular baroreflex sensitivity in females with multiple sclerosis*
Award: \$250
- 2019 Dean's Departmental Award
SMU Research Day, Southern Methodist University, Dallas, TX
Abstract Title: *High intensity interval exercise reduces tolerance to a simulated hemorrhagic challenge relative to steady state exercise in heat stressed individuals*
Award: \$250

Kaitlin Gearin (Undergraduate Student)

- 2023 Honorable Mention Award
SMU Research Day, Southern Methodist University, Dallas, TX
Abstract Title: *Sympatho-excitatory stress in females with multiple sclerosis*

Dustin R. Allen (PhD Student)

- 2018 Dean's Departmental Award
SMU Research Day, Southern Methodist University, Dallas, TX
Abstract Title: *Carotid baroreflex responses to simulated hypotension are blunted during passive whole-body heat stress in young women*
Award: \$250
- 2017 Manuscript Award
Texas Chapter-American College of Sports Medicine Annual Meeting, Waco, TX
Abstract Title: *Impaired sweating responses to a passive whole-body heat stress in individuals with multiple sclerosis*
Award: \$250

- 2017 Poster Award – 3rd Place-PhD Category
Texas Chapter-American College of Sports Medicine Annual Meeting, Waco, TX
Abstract Title: *Impaired sweating responses to a passive whole-body heat stress in individuals with multiple sclerosis*
Award: \$50
- 2015 Dean's Departmental Award
SMU Research Day, Southern Methodist University, Dallas, TX
Abstract Title: *The effect of multiple sclerosis on carotid baroreflex control of heart rate and blood pressure*
Award: \$250

Kelly Lenz (Undergraduate Student)

- 2018 Poster Award – 3rd Place-Undergraduate Category
Texas Chapter-American College of Sports Medicine Annual Meeting, Austin, TX
Abstract Title: *Carotid baroreflex responses to simulated hypotension are blunted during passive whole-body heat stress in young women*
Award: \$50

Mu Huang (PhD Student)

- 2017 Caroline tum Suden/Frances A. Hellebrandt Professional Opportunity Award
American Physiological Society
Experimental Biology, Chicago, IL
Abstract Title: *Preserved tolerance to lower-body negative pressure in individuals with multiple sclerosis during heat stress*
Award: \$500 plus meeting registration reimbursement
- 2016 President's Cup Award*
Texas Chapter-American College of Sports Medicine Annual Meeting, College Station, TX
Abstract Title: *Decreases in core temperature and sweating onset during whole-body heating in individuals with multiple sclerosis following administration of 4-aminopyridine*
Award: Represent TACSM in President's Cup competition at National ACSM meeting
*Selected as the top research presentation at the entire meeting and received traveling President's Cup plaque to display.
- 2016 Poster Award – 1st Place-PhD Category
Texas Chapter-American College of Sports Medicine Annual Meeting, College Station, TX
Abstract Title: *Decreases in core temperature and sweating onset during whole-body heating in individuals with multiple sclerosis following administration of 4-aminopyridine*
Award: \$250

- 2016 Dean's Departmental Award
SMU Research Day, Southern Methodist University, Dallas, TX
Abstract Title: *Decreases in core temperature and sweating onset during whole-body heating in individuals with multiple sclerosis following administration of 4-aminopyridine*
Award: \$250
- 2015 Best Poster Award*
American Physiological Society-Neural Control & Autonomic Regulation Section
Experimental Biology, Boston, MA
Abstract Title: *The effect of multiple sclerosis on carotid baroreflex control of heart rate and blood pressure*
Award: \$1,000
*Selected as one of top twelve abstracts by the NCAR organizing committee from abstracts submitted by trainees (students and post-doctoral fellows) for Data NCARnation competition at Experimental Biology in Boston MA. His abstract was selected as the top abstract in the NCARnation competition based upon of a five slide, five-minute oral presentation and poster session.
- 2015 Dean's Departmental Award
SMU Research Day, Southern Methodist University, Dallas, TX
Abstract Title: *Thermoregulatory dysfunction in multiple sclerosis patients during moderate exercise in a thermoneutral environment*
Award: \$250

Academic Course Development:

2020-current	APSM 4361	Research Practicum	Southern Methodist University
2019-current	APSM 7x04	Research & Dissertation Hours	Southern Methodist University
2018-current	APSM 4312	Physiology of Health & Disease	Southern Methodist University
2014-current	APSM 7302	Research Tutorial in Physiology	Southern Methodist University
2012-current	APSM 7300	Graduate Independent Study	Southern Methodist University
2011-current	APSM 3411	Physiology of Exercise w/Lab	Southern Methodist University
2011-current	APSM 2442	Human Anatomy & Physiology II	Southern Methodist University
2011-current	APSM 2441	Human Anatomy & Physiology I	Southern Methodist University
2011-2020	APSM 5361	Research Practicum	Southern Methodist University
2010	APSM 3311	Physiology of Exercise	Southern Methodist University
2001	ESS 5850	Athlete Assessment	University of Utah

Academic Course Instruction:

2012-current	APSM 3411	Physiology of Exercise w/Lab	Southern Methodist University
2024-current	APSM 4305	Applied Physiology Research & Ethics	Southern Methodist University
2020-current	APSM 4361	Research Practicum	Southern Methodist University
2019-current	APSM 7x04	Research & Dissertation Hours	Southern Methodist University
2018-current	APSM 4312	Physiology of Health & Disease	Southern Methodist University

2014-current	APSM 7302	Research Tutorial in Physiology	Southern Methodist University
2012-current	APSM 7300	Graduate Independent Study	Southern Methodist University
2011-current	APSM 2442	Human Anatomy & Physiology II	Southern Methodist University
2011-current	APSM 2441	Human Anatomy & Physiology I	Southern Methodist University
2024	APSM 3321	Biomechanics	Southern Methodist University
2011-2020	APSM 5361	Research Practicum	Southern Methodist University
2015-2018	APSM 4412	Advanced Exercise Physiology	Southern Methodist University
2010-2013	APSM 3311	Physiology of Exercise	Southern Methodist University
2001	ESS 5850	Athlete Assessment	University of Utah
2001	ESS 2500	Exploration of Movement Science	University of Utah
1995	PEPR 3010	Pre-Clinical Experience	University of Wyoming

Academic Course Co-Instruction:

1999	ESS 2791	Physiology of Fitness	University of Utah
1996	ESS 2040	Human Anatomy	University of Wyoming

Academic Course Guest Instruction:

1999-2001	ESS 6300	Advanced Exercise Physiology	University of Utah
1999	ESS 2791	Physiology of Fitness	University of Utah

Laboratory Course Instruction:

2002	ESS 6300	Advanced Ex. Physiology Lab.	University of Utah
1997-1998	ESS 366L	Exercise Physiology Laboratory	University of Utah
1994-1996	PEPR 3021L	Exercise Physiology Laboratory	University of Wyoming
1994-1996	PEPR 2040L	Human Anatomy Laboratory	University of Wyoming

Activity Class Instruction:

1996-1998	ESS 110	Beginning Weight Training	University of Utah
1996-1998	ESS 111	Intermediate Weight Training	University of Utah
1996-1998	ESS 115	Basketball	University of Utah
1996-1998	ESS 145	Elementary Racquetball	University of Utah
1998	ESS 146	Intermediate Racquetball	University of Utah
1994	PEAC 1271	Weight Loss Conditioning	University of Wyoming
1994	PEAC 1272	Cardiovascular Conditioning	University of Wyoming
1994	PEAC 1273	Heavy Resistance Conditioning	University of Wyoming

PROFESSIONAL, UNIVERSITY, & PUBLIC SERVICE

Professional Organizations:

American Physiological Society
American College of Sports Medicine
American College of Sports Medicine – Texas Regional Chapter
American Heart Association

Professional Service:

Board Positions:

2021-current	Treasurer Board of Directors American College of Sports Medicine – Texas Regional Chapter
2020-2021	Past-President Board of Directors American College of Sports Medicine – Texas Regional Chapter
2019-2020	President Board of Directors American College of Sports Medicine – Texas Regional Chapter
2018-2019	President-Elect Board of Directors American College of Sports Medicine – Texas Regional Chapter
2016-2018	Non-Medicine Representative Board of Directors American College of Sports Medicine – Texas Regional Chapter
2011-current	Advisory Board Member David M. Crowley Laboratory for Research & Rehabilitation Department of Physical Therapy School of Health Professions University of Texas Southwestern Medical Center, Dallas, TX

Peer Reviewing Activities:

Ad-hoc Reviewer: *Journal of Physiology*
American Journal of Physiology: Regulatory, Integrative, & Comparative Physiology
American Journal of Physiology: Heart & Circulatory Physiology
Journal of Applied Physiology
Experimental Physiology
European Journal of Physiology
Medicine & Science in Sports & Exercise
Autonomic Neuroscience: Basic & Clinical
Archives of Physical Medicine & Rehabilitation

Pediatrics
Journal of Thermal Biology
Journal of Physiological Sciences
Microvascular Research
Physiology & Behavior
Multiple Sclerosis Journal

University Service:

2025-current	Faculty Senate Executive Committee
2024-current	Faculty Senate
2020-current	Educational Policies Committee
2017-current	Faculty Senate Subcommittee on Ethics and Tenure
2010-current	Health Professions Recommendation Committee
2016-2024	Chair, Institutional Animal Care and Use Committee (IACUC)
2020-2022	Council on General Education
2019-2020	Faculty Search Committee – Ballet Artist in Residence, Division of Dance, Meadows School of the Arts
2019-2020	Faculty Search Committee – Tenure-track in Biology, Department of Biology, Dedman College of Humanities & Sciences
2018-2019	Faculty Search Committee – Tenure-track in Biology, Department of Biology, Dedman College of Humanities & Sciences
2016-2019	General Education Review Task Force <ul style="list-style-type: none">• Appointed by Provost to revise and refresh university-wide general education curriculum
2017	Faculty Search Committee – Tenure-track in Health Neuropsychology, Department of Psychology, Dedman College of Humanities & Sciences
2019	Common Curriculum Exploring Science Breadth Committee
2015-2017	Faculty Senate Subcommittee on the Academic Calendar
2014	Faculty Search Committee - Tenure-track in Psychology, Department of Psychology, Dedman College of Humanities & Sciences
2012-2014	Institutional Review Board (IRB)

School Service:

2013-current	PhD Committee
2017-current	Faculty Tenure and Promotion Review Committee
2013-2016	Technology Committee
2015-2016	Academic Affairs Council

Department Service:

2024-2025	Faculty Search Committee – Chair Applied Physiology & Sports Management
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2024-2025	Faculty Search Committee – Tenure-track in Sport Management
2024	Faculty Search Committee – Clinical Non-tenure Track in Sport Management
2022	Chair, Faculty Search Committee – Chair Applied Physiology & Sports Management
2020	Faculty Tenure and Promotion Review Committee
2019-2020	Faculty Search Committee – Lecturer of Sports Management
2018-2019	Faculty Search Committee – Lecturer in Sports Management
2017-2018	Faculty Search Committee – Director of Sports Management
2017-2018	Faculty Search Committee – Lecturer in Sports Management
2015-2016	Applied Physiology & Health Management Concentration Curriculum Revision Committee
2014	Faculty Search Committee – Lecturer in Sports Performance & Leadership
2013-2014	Faculty Search Committee – Tenure-track in Applied Physiology & Enterprise
2012-2013	Faculty Search Committee – Tenure-track in Applied Physiology & Enterprise
1999-2000	Graduate Student Representative, Faculty Search Committee, Department of Exercise & Sport Science, University of Utah, Salt Lake City, UT
1995-1996	Graduate Student Representative, Graduate Faculty Committee, School of Physical & Health Education, University of Wyoming, Laramie, WY

Professional Development:

2016	2016 Emerging Leaders Seminar Series Office of the Provost Southern Methodist University, Dallas, TX
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