

JASON R. CARTER, PH.D.

Baylor University
Robbins College of Health and Human Sciences
Dept of Health, Human Performance, and Recreation
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-- SEE FINAL PAGE OF CV FOR 1-PG VITAE SUMMARY --

EDUCATION

Ph.D., Biological Sciences (2003)	Michigan Technological University
B.S., Biological Sciences <i>Summa Cum Laude</i> (2000)	Michigan Technological University

PROFESSIONAL EXPERIENCE

ADMINISTRATIVE POSITIONS:

Baylor University (Waco, TX)

Dean, Robbins College of Health and Human Sciences (2022-present)

- Administrative and budget oversight of third largest College/School at Baylor University, home to over 3,600 students and 140+ full-time faculty (including tenure-track, clinical-track, and lecturers).
- Direct supervision of six department chairs, four assistant/associate deans, director of college marketing and communications, and an executive assistant.
- Member of the Academic Leadership Council and Deans Council charged with oversight of Baylor's academic and research enterprise.
- Established a new budget and tracking system for Robbins College that increased transparency, accountability, and stewardship in collaboration with dept chairs and associate deans.
- Proposed and launched a Physician Assistant program within Robbins College. Board of Regents approval in May 2023, hired inaugural director in October 2023, overseeing facility renovation in 2024, and currently finalizing ARC-PA accreditation steps. Anticipated first class in October 2025.
- Transitioned four online/hybrid programs from online program manager (OPMs) contracts to Baylor in-house management in coordination between Robbins College and the Provost's office. Transitioned programs include: 1) Doctorate of Physical Therapy, 2) Occupational Therapy Doctorate, 3) Master's of Public Health, and 4) Master's of Speech Pathology.
- Secured funding and space for new Robbins College academic advisors suite that opened in Jan 2024.
- Secured funding and space for new Robbins College simulation center that will support the developing PA program, as well as existing programs (DPT, OTD, MPH, etc.).
- Established a new donor funded program that supports "seed grants" for a faculty-graduate student pair. Aims to fund pilot projects that will be used to pursue funding from NIH and other agencies.
- Developed and launched Robbins College "Pure Gold" program that acknowledges faculty and staff on a monthly basis in the categories of 1) research, 2) teaching, 3) service, and 4) culture.
- Dean representative for 18-member Baylor Strategic Planning Group tasked by the President to conduct >100 listening sessions, review >100 white papers, discern data, and recommend a new 5-year strategic plan to President's Council.

Montana State University (Bozeman, MT)

Vice President for Research, Economic Development and Graduate Education (2019-2022)

- Administrative and budget oversight of \$200M+ research enterprise, including supervision of Sponsored Programs, Research Compliance, Research Development, Technology Transfer, and Graduate School.
- Executive stewardship team for the \$101M gift to our College of Nursing, the largest philanthropic gift to a College of Nursing in the United States at time of gifting in August of 2021.
- Led a successful transition of Graduate School to VPR office, which transitioned from Provost to VPR upon my arrival to better align with the University strategic plan.
- Established an Office of Research Development to support pre-award work in closer collaboration with departments, colleges and centers/institutes.
- Worked collaboratively with deans, directors and other leadership to shift F&A reinvestments from an auto-return percentage system to an annual re-investment process based on strategic plan and goals.
- Provided administrative and financial support to establish an interdisciplinary, faculty-led Center for Science, Technology, Ethics and Society that aligned with the strategic plan.
- Established university COVID-19 research guideline, including a clear and transparent process for remote research, and mitigated plans for campus research to continue throughout the pandemic.
- Established a COVID-19 testing site in partnership with the Montana Department of Public Health and Human Services, only the second CLIA-certified SARS-CoV-2 testing site for the state of Montana.
- Campus coordination and prioritization of annual federal relations appropriation requests, including presentation to Montana delegation in coordination.
- Supervised final construction and personnel infrastructure for the MSU Applied Research Laboratory, a facility that supports restricted national security research with federal and industry partners.
- Established a centralized core facilities program with standardized approval/renewal processes, budgetary expectations, and processes for annual F&A reinvestments.
- Advanced ongoing and initiated new economic development efforts. Hired a new executive director for MSU Innovation Campus, assisted with recruitment of Southwest Airlines to BZN, partnered with state on COVID testing, and supporting an Agriculture Innovation effort.

Michigan Technological University (Houghton, MI)

Associate Vice President for Research Development (2018-2019)

- Budget and supervisory oversight for Office of Research Development, Office of Research Integrity, core facilities program, and internal VPR grant program.
- Led a campus-wide health research and education initiative that resulted in a \$30M state appropriation for a new \$40M biomedical engineering and sciences building. Worked directly with the President, VPR, Foundation CEO, state legislature, and others over a 3-yr span to secure this building.

Assistant to the Vice President for Research for Research Development (2016-2018; 20% additional effort)

- Expanded faculty participation and engagement across campus, including implementation of brown bag series and an annual Research Development Day with sessions featuring internal and external speakers.
- Led efforts to modify the internal sponsored programs process and timeline. This included collaboration with the Sponsored Programs Office (SPO) and others on a NIH and NSF “pilot” that provided SPO with budgets one week before deadline, but expanded faculty deadline for scientific sections.

Associate Dean, College of Sciences and Arts (2012-2016; 20% additional effort)

- Oversaw the tripling of NIH research expenditures within the College of Sciences and Arts over four year span. Developed college-wide NIH research training workshops and peer-mentoring system. During this time, the College Sciences of Arts surpassed the College of Engineering in NIH research awards.
- Led a transformative regional foundation grant to accelerate health sciences and engineering research and education. This \$2.5M grant was matched nearly 2:1 with university resources, resulting in a total project of ~\$6.7M to bolster health research and education.
- Secured and hired three endowed professorships in biomedical sciences and engineering. The regional foundation partnership provided matching funds for three new endowed professorships.

- Assisted a diverse group of departments in various initiatives. Worked with each of the following ten departments on targeted initiatives: 1) *Biological Sciences*; 2) *Chemistry*; 3) *Cognitive and Learning Sciences*; 4) *Computer Science*; 5) *Humanities*; 6) *Kinesiology and Integrative Physiology*; 7) *Mathematical Sciences*; 8) *Physics*; 9) *Social Sciences*; 10) *Visual & Performing Arts*.

Department Chair, Department of Kinesiology and Integrative Physiology (2011-2018);

Department Chair, Department of Exercise Science, Health and Physical Education (2008-2011)

- Developed a vibrant and research-driven Department of Kinesiology & Integrative Physiology. During 12 years as dept chair, developed two B.S. degrees, one M.S. degree, one Ph.D. degree, became the third largest major in the College, and the top-ranked research department on campus based on expenditures per tenure/tenure-track faculty.
- Established an inter-institutional Doctorate of Physical Therapy (DPT) program with Central Michigan University (CMU). Pitched and executed on a satellite program with CMU that is physically located on Michigan Tech's campus. Program has successfully graduated over 60 students over past five years, and was acknowledged as an "innovative and novel model" in a recent accreditation visit.
- Led a successful 18-mo fundraising campaign of \$250,000 with local and regional hospital CEOs to launch the inter-institutional DPT program. Secured four \$25k gifts from local and regional hospitals, \$25k gift from an alum, and matching \$125k gift from a regional healthcare network to secure the \$250k required to launch the MTU-CMU DPT partnership.
- Secured a supplementary \$40k gift to create the Roy ('59) and Ruth Jurva student lounge. Partnered with the development office to raise funding toward a student lounge for the DPT program.
- Supported diversity, equity and inclusion through hiring, mentorship, and decisive action. Hired and mentored nine tenure/tenure-track faculty (55% female and/or underrepresented faculty) and seven nontenure-track faculty (71% female and/or underrepresented). My last two PhD graduates were both female and underrepresented, and went on to postdocs at Harvard and Emory.

FACULTY POSITIONS:

Baylor University (Waco, TX)

Professor, Department of Health, Human Performance and Recreation (2022-present)

Montana State University (Bozeman, MT)

Professor, Department of Health and Human Development (2019-2022)

Michigan Technological University (Houghton, MI)

Professor, Department of Kinesiology and Integrative Physiology (2014-2019)

Associate Professor, Department of Kinesiology and Integrative Physiology (2011-2014)

Associate Professor, Department of Exercise Science, Health and Physical Education (2010-2011)

Assistant Professor, Department of Exercise Science, Health and Physical Education (2006-2010)

Instructor and Adjunct Assistant Professor, Department of Biological Sciences (2002-2006)

University of Chicago (Chicago, IL)

Visiting Scholar, Department of Medicine (2014-2016)

Full Academic Year Sabbatical, Department of Medicine (2015-2016)

Mayo Clinic (Rochester, MN)

Adjunct Associate Professor, Department of Physiology and Biomedical Engineering (2012-2015)

OTHER RELEVANT POSITIONS:

Houghton-Portage Township Schools (Houghton, MI)

High School Science Teacher (full time, tenure position), Houghton High School (2002-2006)

Pennsylvania State University College of Medicine (Hershey, PA)

Post-Doctoral Research (distance w/ Dr. Chet Ray), Heart and Vascular Institute (2003-2005)

Summer Research Fellowships (local w/ Dr. Chet Ray), Heart and Vascular Institute (2002, 2003)

PROFESSIONAL SOCIETY LEADERSHIP

It has been an honor and learned experience to serve [five professional societies in executive leadership roles](#). I served as President for the American Kinesiology Association (2018-19) and Michigan Physiological Society (2014-15), and the Executive Council/Committee for the American Physiological Society (2019-2022), APLU Council on Research (2020-2022), and Federal Demonstration Partnership (2022).

American Kinesiology Association (AKA)

- President (2018-19)
- Founder and Co-Director of AKA Leadership Institute (2018-20)
- Executive Committee (2015-2020)
- Steering Committee (2014-2020)
- Membership Committee Chair (2014-15)
- Board of Directors (2012-15)

American Physiological Society (APS)

- APS Councilor (2019-2022)
- APS Committee on Committees (2015-2018)
- Neural Control & Autonomic Regulation (NCAR) Steering Committee (2008-12 and 2015-18)
- Presidential Task Force #4 – Enhancing Scientific Interaction and Exchange (2011-12)
- APS Joint Programming Committee (2008-12)

Association of Public and Land-Grant Universities (APLU)

- Council on Research (CoR) Executive Committee (2020-2022)
- CoR Research Leader Fellow (2017-2019)

Federal Demonstration Partnership (FDP)

- Executive Committee (2022)
- Co-chair of Infrastructure Committee (2022-present)
- Co-chair of Nomination and Volunteer Engagement Working Group (2020-21)
- Faculty Mentor (2013-2019)
- Faculty Representative (2011-2019)
- Task Force – Parental/Family Leave for Trainees (2011)

Michigan Physiological Society (MPS)

- President, Michigan Physiological Society (2014-15)
- Co-Chair, Michigan Physiological Society Formation Committee (2011-13)

PROFESSIONAL SOCIETY HONORS/AWARDS

American Kinesiology Association

- Jerry R. Thomas Distinguished Leadership Award (2021) – [Society's top peer-reviewed award](#)

American Physiological Society

- Fellow, American Physiological Society (2024) – *Society's highest designated membership honor*
- Research Recognition Award, Teaching Section (2013)
- Research Recognition Award, Central Nervous System Section (2010)
- Research Recognition Award, Neural Control and Autonomic Regulation Section (2009)
- Caroline tum Suden/Francis A. Hellebrandt Professional Opportunity National Award (2003)

National Academy of Kinesiology

- Elected-Fellow #567 (2017) – *Similar to National Academies of Sciences, Engineering and Medicine, the National Academy of Kinesiology has limited and elected membership with historical roots to early 1900's.*

FUNDED GRANTS (>\$75 million in secured external funding)

CURRENT FUNDING:

- 2024-2026: **J. Carter (PI)**, C. Smith (co-I), J. Bigalke (co-I), and M. Scullin (co-I). Arctic acclimatization and sleep optimization research laboratory (ARKTOS). National Institute of Standards and Technology (NIST). \$906,715 (direct), \$1,000,000 (total).
- 2024-2025: **J. Carter (PI)**, J. Bigalke (co-I), and R. Mattlock (co-I). Influence of upper airway stimulation on blood pressure and sympathetic nerve activity in adults with obstructive sleep apnea. Inspire Investigator Initiated Research Program. \$105,050 (total)
- 2021-2025: N. John-Henderson (PI), **J. Carter (co-I)**, A. Adams (co-I), and B. Oosterhoff: *"Social Connectedness and Health in the Blackfeet Community: An Investigation of Biopsychosocial Mediators"* National Institutes of Health – Institute on Minority Health and Health Disparities (NIMHD); R01 MD-015894-01A1. \$1,585,201 (direct), \$2,181,648 (total).
- 2020-2025: M. Keller-Ross (PI), D. Lowe (Mentor), **J. Carter (Mentor)**, and C. Reilly (Mentor). *"Autonomic regulation of blood pressure in premature and early menopausal women"* National Institutes of Health – National Institute on Aging (NIA); K01 AG-064038-01A1. \$610,000 (direct), \$658,800 (total).
- 2020-2025: V. Grant (PI), A. Adams (Mentor), **J. Carter (Mentor)**. *"Developing, implementing, and evaluating a mixed-methods community-based participatory research sleep intervention in families with K-1st grade children living on the Blackfeet Indian Reservation"* National Institutes of Health – National Heart, Lung, and Blood Institute (NHLBI); K01 HL-146993-01A1. \$715,435 (direct), \$772,670 (total).

PAST FUNDING:

- 2022-2024: E. Lee (PI), M. Keller-Ross, **J. Carter (Mentor)**, D. Lowe (Mentor), and S. Everson-Rose (Mentor). *"Vascular regulation in postmenopausal females"* National Institutes of Health – National Heart, Lung, and Blood Institute (NHLBI); F32 HL-160012-02. \$156,424 (total).
- 2017-2022: **J. Carter (PI)**: *"Alcohol and Neurovascular Control in Humans"* National Institutes of Health – National Institute on Alcohol Abuse and Alcoholism (NIAAA); R01 AA-024892-01A1. \$1,377,030 (direct), \$1,871,688 (total).
- 2022-2027: M. Disis (PI), **J. Carter (co-I)**, T. Sun (co-I), B. Ramsey (co-I), P. Martin (co-I), K. Tuttle (co-I), and J. Slattery (co-I). *"Institute of Translational Health Sciences"* National Institutes of Health – National Center for Advancing Translational Sciences; UL1 TR-002319-06. \$48,487,291 (direct),

\$63,312,471 (total). Special Note – Voluntarily withdrew from project as co-I in Summer 2022 as result of transition to Baylor University.

2020-2022: **J. Carter (PI)**, B. Mokhlesi (co-PI), L. Medalie (co-I): *“A Randomized, Double-Blind, Placebo-Controlled Study to Determine the Effect of Suvorexant on Sympathetic Neural Activity and Baroreflex Function in Patients with Chronic Insomnia”* Merck Investigator Studies Program. \$334,748 (direct), \$416,218 (total).

2019-2020: J. Durocher (PI), **J. Carter (co-I)**: *“Industry-Sponsored Research on Mattresses and Sleep Quality”* Sleep Number. \$395,064 (total). Special Note – Voluntarily transitioned from PI to co-I in Fall 2020 as result of transition to Montana State University.

2018-2021: J. Durocher (PI), **J. Carter (co-I)**, J. Park (co-I): *“Mindfulness and Neural Cardiovascular Control in Humans”* National Institutes of Health – Heart, Lung and Blood Institute; R15 HL140596-01. \$300,000 (direct), \$465,854 (total). Special Note – Voluntarily withdrew from project in Fall 2020 as result of transition to Montana State University.

2015-2020: **J. Carter (PI)**, J. Lehman (co-I), G. Hembroff (co-I), A. Minerick (co-I), K. Ong (co-I). *Portage Health Foundation and Michigan Tech University: A Partnership to Improve Health Education, Research, Infrastructure, and Local Economic Growth.* Portage Health Foundation. \$2,500,000 (direct). Special Note – Voluntarily withdrew from project in Fall 2020 as result of transition to Montana State University.

2017-2019: J. Baker (PI), **J. Carter (Academic PI)**, J. Diebel (Commercialization PD). *“Michigan M-TRAC Innovation Hub – Advanced Applied Materials.”* Michigan Economic Development Corporation. \$446,250 (direct), \$525,000 (total).

2014-2018: **J. Carter (PI)**: *“Sleep Deprivation and Neural Cardiovascular Control in Postmenopausal Women”* National Institutes of Health – Heart, Lung and Blood Institute; R15 HL122919. \$300,000 (direct), \$465,000 (total).

2014-2016: E. Van Cauter (PI), B. Mokhlesi (co-I), **J. Carter (co-I)**: *“Multi-Level Assessment of Physiologic Hyper-Arousal in Chronic Primary Insomnia: A Case Control Study”* Merck Investigator Studies Program. \$401,589 (direct), \$499,353 (total).

2014-2016: J. Baker (PI), **J. Carter (Academic PI)**, J. Diebel (Commercialization PD). *“Michigan Translational Research and Commercialization (M-TRAC) – Advanced Applied Materials.”* Michigan Economic Development Corporation. \$517,000 (direct).

2014-2015: **J. Carter (PI)**: *“Cell Culture and Bio-Imaging Core Facility: Promoting Life Sciences Research at Michigan Tech”* Michigan Technological University Research Excellence Fund – Infrastructure Enhancement Grant. \$42,000 (direct).

2013-2015: **J. Carter (PI)** and C. Smoot (co-I): *“Sleep Apnea and Neurovascular Control in Humans.”* Portage Health Foundation and SuperiorIdeas Crowdfund. \$9,000 (direct) + \$16,000 (in-kind hospital services).

2013-2014: A. Ross (PI) and **J. Carter (co-PI)**: *“Sleep Efficiency and Neural Cardiovascular Control in Humans.”* American Physiological Society \$5,600 (direct). [Faculty mentor for Undergraduate Student Fellowship]

- 2012-2013: **J. Carter (PI)** and J. West (sponsor): *“Dissemination of a Novel Teaching Method: Inclusion of Aerospace Physiology within an Exercise Physiology Curriculum”* American Physiological Society; Teaching Career Enhancement Award. \$4,000 (direct)
- 2010-2012: **J. Carter (PI)**: *“Sleep Deprivation and Neurovascular Control in Humans”* National Institutes of Health – Heart, Lung and Blood Institute; R21 HL098676. \$275,000 (direct), \$426,250 (total).
- 2010-2011: **J. Carter (PI)**: *“Influence of Mental Stress on Sympathetic Baroreflex Function: Implications for Post-Spaceflight Orthostatic Intolerance”* National Aeronautics and Space Administration – Michigan Space Grant Consortium (Seed Grant). \$10,000 (direct).
- 2010-2011: C. Schwartz (PI) and **J. Carter (co-PI)**: *“Effects of Caffeine Consumption on Sympathetic Responses to Orthostatic Stress”* National Aeronautics and Space Administration – Michigan Space Grant Consortium (Seed Grant). \$5,000 (direct).
- 2010-2011: K. Lufkin (PI) and **J. Carter (co-PI)**: *“Neural and Cardiovascular Responses to Anxiety Induced by Social Technology Removal”* American Physiological Society \$5,600 (direct). [Faculty mentor for Undergraduate Student Fellowship]
- 2009-2011: **J. Carter (PI)**: *“Fish Oil and Neurovascular Control in Humans: Research Supplement to Promote Diversity in Health-Related Research”* National Institutes of Health – Heart, Lung and Blood Institute; R15 HL088689. \$13,400 (direct), \$20,904 (total).
- 2009-2010: J. Klein (PI) and **J. Carter (co-PI)**: *“Influence of Heat and Mental Stress on Neurovascular Control in Humans”* American Physiological Society \$5,600 (direct). [Faculty mentor for Undergraduate Student Fellowship]
- 2008-2011: **J. Carter (PI)**: *“Fish Oil and Neurovascular Control in Humans”* National Institutes of Health – Heart, Lung and Blood Institute; R15 HL088689. \$150,000 (direct), \$211,490 (total).
- 2008-2010: **J. Carter (PI)**: *“Aerobic Capacity of Elite Collegiate Hockey Players: Sport Specific Assessment”* Portage Sports Medicine Institute. \$10,000 (direct).
- 2008-2009: **J. Carter (PI)** and M. Joyner (sponsor): *“Enhancement of Neural Control and Autonomic Regulation Research Using Limb Blood Flow Methodologies”* American Physiological Society; Research Career Enhancement Award. \$3,000 (direct)
- 2008-2009: J. Durocher (PI) and **J. Carter (co-PI)**: *“Mental Stress during Acute Loading of the Baroreceptors”* National Aeronautics and Space Administration - Michigan Space Grant Consortium. \$5,000 (direct). [Faculty mentor for Graduate Student Fellowship]
- 2007-2008: D. Helton (PI), J. Tan (co-PI), A. Mukherjee (co-PI), Y. Li (co-PI), R. Pastel (co-PI), N. Onder (co-PI), **J. Carter (co-PI)**: *“A Collaborative Laboratory for Human-Robot Interaction”* United States Department of Defense – Defense University Research Instrumentation Program. \$467,017 (direct).
- 2007-2008: **J. Carter (PI)** and J. Durocher (co-PI): *“Optimizing Lactate Clearance in Collegiate Athletes”* Portage Sports Medicine Institute. \$2,273 (direct), \$2,500 (total).

2007-2008: M. Neuman (PI), J. Adler (co-PI), **J. Carter (co-PI)**. “Animal Facility Improvement Grant” Michigan Technological University Research Excellence Fund – Infrastructure Enhancement Grant. \$47,124 (direct).

2007-2008: **J. Carter (PI)**: “Enhancement of the Exercise Science Research Infrastructure at Michigan Tech” Michigan Technological University Research Excellence Fund – Infrastructure Enhancement Grant. \$34,520 (direct).

2006-2007: **J. Carter (PI)**: “The Influence of Reproductive Hormones on Sympathetic Responses to Mental Stress” Michigan Technological University Research Excellence Fund. \$50,000 (direct).

2006-2007: **J. Carter (PI)**: “Physiological Gender Differences in Hockey Players during On-Ice Graded Exercise” Portage Sports Medicine Institute. \$2,273 (direct), \$2,500 (total).

2002-2003: **J. Carter (PI)** and WH Cooke (co-PI): “Effects of Mental Stress on the Vestibul sympathetic Reflex” National Aeronautics and Space Administration, Michigan Space Grant Consortium. \$5,000 (direct).

2001-2002: **J. Carter (PI)** and WH Cooke (co-PI): “Human Neural Organization During Acute Simulated Microgravity” National Aeronautics and Space Administration, Michigan Space Grant Consortium. \$5,000 (direct).

PEER-REVIEWED JOURNAL PUBLICATIONS (123 publications)

2025:

Bigalke JA, Lee KM, Bigalke JR, Scullin MK, Gallucci AR, and Carter JR. Longitudinal assessment of objective sleep and power output in Division 1 collegiate baseball athletes. *Sleep Health* (In Press). Online ahead of print: PMID:39893113

2024:

Bigalke JA, John-Henderson NA, and Carter JR. Stress appraisal is associated with sympathetic neural reactivity to mental stress in humans. *Journal of Applied Physiology* 138:55-65, 2025. Epub Nov 27, 2024.

John-Henderson NA, Henderson-Matthews B, Helm P, Gilham S, Heavy Runner G, Johnson L, Lafromboise ME, Malatare M, Salois E, and Carter JR. Social connectedness and sleep in the Blackfeet American Indian community. *Sleep Health* 11:33-29, 2025. Epub Nov 13, 2024.

Bigalke JA, Greenlund IM, Solis-Montenegro TX, Durocher JJ, Joyner MJ, and **Carter JR**. Binge alcohol consumption elevates sympathetic transduction to blood pressure: A randomized controlled trial. *Hypertension* 81:2140-2151, 2024. Epub Aug 9, 2024.

Tahmin CI, Tahsin CT, Wattero R, Ahmed Z, Corbin C, **Carter JR**, Park J, Racette SB, Sullivan SS, Herr MD, and Fonkoue IT. Blunted brachial blood flow velocity response to acute mental stress in PTSD females. *Physiological Reports* 12(13):e16137. doi: 10.14814/phy2.16137. July 2024.

Bigalke JA, Greenlund IM, Bigalke JR, and **Carter JR**. Actigraphy-based sleep and muscle sympathetic nerve activity in humans. *American Journal of Physiology – Regulatory, Integrative, and Comparative Physiology* 327:R145-R151, 2024. Epub June 6, 2024.

Lindsey ML, Kirk JA, LeBlanc AJ, Brunt KR, **Carter JR**, Hansell Keehan K, Ripplinger CM, Kleinbongard P, and Kassiri Z. Looking backward to plan forward. *American Journal of Physiology - Heart and Circulatory Physiology* 326:H1155-H1158, 2024. Epub March 29, 2024.

Lindsey ML, Brunt KR, Kleinbongard P, **Carter JR**, Ripplinger CM, Kassiri Z, Hansell Keehan K, LeBlanc AJ, and Kirk JA. The heart of physiological reports. *Physiological Reports* 12(5):e15962. doi: 10.14814/phy2.15962.

Tahsin CT, Anselmo M, Lee E, Stokes W, Fonkoue IT, Vanden NovenML, **Carter JR**, and Keller-Ross ML. Sleep disturbance and sympathetic neural reactivity in postmenopausal females. *American Journal of Physiology - Heart and Circulatory Physiology* 326:H752-H759, 20204. Epub Jan 12, 2024.

2023:

Lindsey ML, Usselman CW, Ripplinger CM, **Carter JR**, and DeLeon-Pennell KY. Sex as a biological variable for cardiovascular physiology. *American Journal of Physiology - Heart and Circulatory Physiology* 326:H459-H469, 2023. Epub Dec 15, 2023.

Bigalke JA, Young BE, Cleveland EL, Fadel PJ, and **Carter JR**. Aging and sympathetic transduction to blood pressure in humans: Methodological and Physiological Considerations. *American Journal of Physiology - Heart and Circulatory Physiology* 326:H148-H157, 2024. Epub Nov 3, 2023.

Vanden Noven ML, Anselmo M, Tahsin CT, **Carter JR**, and Keller-Ross ML. A review of the historical use of sex as a biological variable in the American Journal of Physiology – Heart and Circulation. *American Journal of Physiology - Heart and Circulatory Physiology* 325:H768-H773, 2023. Epub Aug 18, 2023.

Bigalke JA, Cleveland EL, Barkstrom E, Gonzalez JE, and **Carter JR**. Core body temperature changes prior to sleep are associated with nocturnal heart rate variability. *Journal of Applied Physiology* 135:136-145, 2023. Epub June 1, 2023.

Lindsey ML, Kassiri Z, LeBlanc AJ, Ripplinger CM, Kirk JA, **Carter JR**, Kleinbongard P, Brunt KR. Spring cleaning: freshening up the portfolio. *American Journal of Physiology - Heart and Circulatory Physiology* 324: H840-H842, 2023. Epub April 28, 2023.

Lindsey ML, Kleinbongard P, Kassiri Z, **Carter JR**, Keehan KH, Ripplinger CM, LeBlanc AJ, Brunt KR, and Kirk JA. We asked and you answered. *American Journal of Physiology - Heart and Circulatory Physiology* 324: H657-H658, 2023. Epub March 17, 2023.

Bigalke JA, Durocher JJ, Greenlund IM, Keller-Ross ML, and **Carter JR**. Blood pressure and muscle sympathetic nerve activity are associated with trait anxiety in humans. *American Journal of Physiology - Heart and Circulatory Physiology* 324:H494-H503, 2023. Epub Feb 17, 2023.

2022:

Lindsey ML, **Carter JR**, Ripplinger CM, Kassiri Z, Keehan KH, Brunt KR, Kirk JA, Kleinbongard P, and LeBlanc AJ. Sex still matters in cardiovascular research. *American Journal of Physiology - Heart and Circulatory Physiology* 324:H79-H81, 2023. Epub Dec 9, 2022.

Lee E, Anselmo M, Tahsin CT, Vanden Noven ML, Stokes W, **Carter JR**, and Keller-Ross ML. Vasomotor symptoms of menopause, autonomic dysfunction, and cardiovascular disease. *American Journal of Physiology - Heart and Circulatory Physiology* 323:H1270-H1280, 2022. Epub Nov 11, 2022.

Palmer CA, John-Henderson NA, Bawden H, Massey A, Powell SL, Hilton A, and **Carter JR**. Sleep restriction reduces positive social emotions and desire to connect with others. *SLEEP* 4:zsac265. Epub Nov 4, 2022.

Bigalke JA, Shan Z, and **Carter JR**. Orexin, sleep, sympathetic neural activity, and cardiovascular function. *Hypertension* 79:2643-2655, 2022. Epub Sept 23, 2022.

Pabon E, Greenlund IM, **Carter JR** and de Wit H. Effects of alcohol on sleep and nocturnal heart rate: Relationships to intoxication and morning-after effects. *Alcoholism: Clinical and Experimental Research* 46:1875-1887, 2022. Epub September 1, 2022.

Medalie L, Bigalke JA, Tikkanen AL, Mokhlesi B and **Carter JR**. Recruiting “clean” chronic insomnia participants: The unicorn of sleep research. *Journal of Clinical Sleep Medicine*. 18:2081-2083, 2022.

Bigalke JA, Greenlund IM, Nicevski JR, Tikkanen AL, and **Carter JR**. Sympathetic neural reactivity to trier social stress test. *Journal of Physiology (London)*. 600:3705-3724, 2022. Epub July 29, 2022.

Carter JR, Knutson KL, and Mokhlesi B. Taking to “heart” the proposed legislation for permanent daylight saving time. *American Journal of Physiology - Heart and Circulatory Physiology* 323:H100-H102, 2022. Epub May 27, 2022.

Kerkering EM, Greenlund IM, Bigalke JA, Migliaccio GCL, Smoot CA, and **Carter JR**. Reliability of heart rate variability during stable and disrupted polysomnography sleep. *American Journal of Physiology - Heart and Circulatory Physiology* 323:H16-H23, 2022. Epub May 13, 2022.

John-Henderson NA, Oosterhoff B, Kampf TD, **Carter JR**, and Adams AK. Historical loss: Implications for health of American Indians in the Blackfeet community. *Annals of Behavioral Medicine* 56:193-204, 2022.

Greenlund IM and **Carter JR**. Sympathetic neural responses to sleep disorders and insufficiencies. *American Journal of Physiology - Heart and Circulatory Physiology* 322:H337-H349, 2022. Epub January 7, 2022.

2021:

Bigalke JA and **Carter JR**. Sympathetic neural control in humans with anxiety-related disorders. *Comprehensive Physiology* 12:3085-3117, 2021.

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Carter JR, Schwartz CE, Yang H, and Joyner MJ. Fish oil and neurovascular reactivity to mental stress in humans. *Federation of American Societies for Experimental Biology* 27:1192.1, 2013.

Yang H and **Carter JR**. Sympathetic and cardiovagal baroreflex sensitivity in humans: Comparison of Valsalva's maneuver and spontaneous methodologies. *Federation of American Societies for Experimental Biology* 27:1117.4, 2013.

Young AH, Strong CR, Cooke WH, **Carter JR**, and Durocher JJ. The influence of combined lower body negative pressure and mental stress on cerebral blood flow in men and women. *Federation of American Societies for Experimental Biology* 27:1186.9, 2013.

Carter JR, Yang H, and Drummer TD. Sex differences in limb vascular reactivity to mental stress in humans. *Clinical Autonomic Research* 22(5):226, 2012.

Yang H, Durocher JJ, Larson RA, DellaValla JP, and **Carter JR**. Sleep deprivation augments cardiovascular reactivity to acute stress in humans *Clinical Autonomic Research* 22(5):242, 2012.

Holwerda SW, Yang H, **Carter JR**, and Fadel PJ. Methodological considerations for assessing resting spontaneous baroreflex control of muscle sympathetic nerve activity in humans. *Clinical Autonomic Research* 22(5):225, 2012.

Carter JR, Durocher JJ, Larson RA, DellaValla JP, and Yang H. Sleep deprivation and neural cardiovascular reactivity in humans. *Sleep* 35:A418, 2012.

Yang H, Durocher JJ, Larson RA, DellaValla JP, and **Carter JR**. Influence of 24-hour sleep deprivation on sympathetic and cardiovagal baroreflex function in humans. *Sleep* 35:A122, 2012.

Larson RA, Durocher JJ, DellaValla JP, and Yang H, **Carter JR**. Influence of sleep deprivation on cardiovascular reactivity and pain perception to cold pressor test. *Sleep* 35:A121, 2012.

Durocher JJ, Witting JL, Drummer TD, and **Carter JR**. Influence of night shift on sleep-wake cycle, 24-hour blood pressure and state anxiety. *Sleep* 35:A209, 2012.

Carter JR, Fu Q, Minson MT, and Joyner MJ. Menstrual cycle and sympathetic neural activity in humans: A retrospective study. *Federation of American Societies for Experimental Biology* 26:1091.41, 2012.

Durocher JJ and **Carter JR**. Influence of body mass index on neural cardiovascular reactivity to mental stress in humans. *Federation of American Societies for Experimental Biology* 26.1091.40, 2012.

Larson RA, Durocher JJ, Yang H, DellaValla JP, and **Carter JR**. Influence of 24-hour sleep deprivation on anxiety and cardiovascular reactivity in humans. *Federation of American Societies for Experimental Biology* 26.684.15, 2012.

Schwartz CE, Joyner MJ, Yang H, and **Carter JR**. Fish oil and sympathetic nerve activity in normotensive and prehypertensive humans. *Federation of American Societies for Experimental Biology* 26.1092.2, 2012.

Yang H, Durocher JJ, Larson RA, DellaValla JP, and Carter JR. Sex differences in sympathetic neural responses to 24-hour sleep deprivation in humans. *Federation of American Societies for Experimental Biology* 26:893.12, 2012.

Durocher JJ, Larson RA, DellaValla JP, and **Carter JR**. Influence of sleep deprivation on state-anxiety and arterial blood pressure in humans. *Sleep* 34:A104, 2011.

Yang H, Cooke WH, Reed KS, and **Carter JR**. Sex-related differences in firing patterns on integrated muscle sympathetic nerve activity in humans. *Federation of American Societies for Experimental Biology* 25:647.2, 2011.

Durocher JJ, Larson RA, and **Carter JR**. Acute alcohol ingestion lengthens sympathetic burst latency in humans. *Federation of American Societies for Experimental Biology* 25:647.2, 2011.

Schwartz CE, Joyner MJ, Durocher JJ, and **Carter JR**. Influence of omega-3 fatty acids on neurovascular responses to mental stress in normotensive humans. *Federation of American Societies for Experimental Biology* 25:647.14, 2011.

Carter JR, Durocher JJ, Schwartz CE, and Klein JC. Mental stress attenuates sympathetic baroreflex sensitivity in humans. *Clinical Autonomic Research* 20(5):315, 2010.

Klein JC, Crandall CG, Brothers RM, and **Carter JR**. Combined heat and mental stress alters neurovascular control in humans. *Federation of American Societies for Experimental Biology* 24:1020.9, 2010.

Schwartz CE, Durocher JJ, and **Carter JR**. Prehypertension alters arterial pressure and forearm vascular responses to mental stress in humans. *Federation of American Societies for Experimental Biology* 24:1020.8, 2010.

Stream SF, Schwartz CE, Klein JC, and **Carter JR**. Acute alcohol ingestion blunts arterial pressure but not sympathetic neural responses to orthostatic stress in humans. *Federation of American Societies for Experimental Biology* 24:1020.5, 2010.

Carter JR, Klein JC, and Schwartz CE. Effects of oral contraceptives on sympathetic neural responses to orthostatic stress in young, healthy women. *Clinical Autonomic Research* 19(5):285, 2009.

Ray CA and **Carter JR**. Effects of aerobic exercise training on sympathetic and renal responses to mental stress in humans. *Clinical Autonomic Research* 19(5):286, 2009.

Carter JR, Klein JC, Lawrence JE, Cross JL. Sympathetic neural responses to lower body negative pressure during early follicular and midluteal phases of the menstrual cycle. *Federation of American Societies for Experimental Biology* 23:786.5, 2009.

Lawrence JE, Klein JC, **Carter JR**. Effects of oral contraceptives on sympathetic baroreflex sensitivity during Valsalva's maneuver. *Federation of American Societies for Experimental Biology* 23:786.4, 2009.

Lucas AK, Drummer TD, **Carter JR**. Effects of pediatric adiposity on heart rate variability. *Federation of American Societies for Experimental Biology* 23:612.5, 2009.

Durocher JJ, Schwartz CE, and **Carter JR**. Mental stress during acute loading of the baroreceptors. *Federation of American Societies for Experimental Biology* 23:786.9, 2009.

Carter JR and Ray CA. Muscle sympathetic nerve activity during mental stress: responders vs. nonresponders. *Clinical Autonomic Research* 18(5):243, 2008.

Durocher JJ, Bustos DJ, Schwartz CE, and **Carter JR**. Post-game cycling does not enhance blood lactate removal in collegiate hockey players. *The Physiologist* 51(6):22.13, 2008.

Lawrence JE, Lucas AK, Ray CA, and **Carter JR**. Vestibul sympathetic reflex during the early follicular and mid-luteal phases of the menstrual cycle. *Federation of American Societies for Experimental Biology* 22:740.4, 2008.

Durocher JJ, Kern JP, and **Carter JR**. Effects of emotional and mental stress on muscle sympathetic nerve activity in humans. *Federation of American Societies for Experimental Biology* 22:740.6, 2008.

Carter JR and Ray CA. Effect of dimenhydrinate on the vestibul sympathetic reflex and baroreflexes in humans. *Federation of American Societies for Experimental Biology* 21:612.10, 2007.

Carter JR, Kupiers NT, Cooke WH, and Ray CA. Forearm vascular responses during mental stress and vestibular activation. *Federation of American Societies for Experimental Biology* 18(4), 2004.

Carter JR, Cooke WH, and Ray CA. Mental stress and cardiovascular control: a comprehensive examination. *Federation of American Societies for Experimental Biology* 17(4), 2003.

Cooke WH, Pellegrini GL, and **Carter JR**. Hemodynamic and neural adaptations to circuit weight training. *Medicine and Science in Sports and Exercise* 35(5), 2003.

Carter J, Cooke W, and Ray C. Vestibul sympathetic reflex during mental stress. *Clinical Autonomic Research* 12:299, 2002.

Martin SE, Grandjean PW, Cooke WH, **Carter JR**, and Crouse SF. The influence of resistance training on blood lipid responses to resistance exercise. *Medicine and Science in Sports and Exercise* 34(5) Suppl. S260, 2002.

Carter JR, Downs EM, and Cooke WH. Resistance training reduces resting arterial pressure but not muscle sympathetic nerve activity. *Medicine and Science in Sports and Exercise* 34(5) Suppl. S295, 2002.

SELECTED NATIONAL & INTERNATIONAL ORAL PRESENTATIONS

American Autonomic Society

2013	Featured Oral (Session Co-Chair and Speaker)	<i>Session: Microneurography and Cardiovascular Reflexes in Humans</i> Role of the Ovarian Cycle on Neural Cardiovascular Control in Sleep Deprived Women	Big Island, HI
2012	Featured Oral (Speaker)	Sleep Deprivation Augments Cardiovascular Reactivity to Acute Stress in Humans	Paradise Island, Bahamas
2010	Featured Oral (Session Co-Chair)	Control of Sympathetic Nerve Activity and Blood Flow in Humans	Marco Island, FL

2010	Featured Oral (Speaker)	Mental Stress Attenuates Sympathetic Baroreflex Sensitivity in Humans	Marco Island, FL
2009	Featured Oral (Speaker)	Effects of Oral Contraceptives on Sympathetic Neural Responses to Orthostatic Stress in Women	St. Thomas, Virgin Islands
2009	Featured Oral (Speaker)	Effects of Aerobic Exercise Training on Sympathetic and Renal Responses to Mental Stress in Humans	St. Thomas, Virgin Islands
2008	Featured Oral (Speaker)	Muscle Sympathetic Nerve Activity during Mental Stress: Responders vs. Nonresponders	Kauai, HI

American College of Sports Medicine

2011	Tutorial Lecture (Session Co-Chair and Speaker)	Autonomic Adjustments to Mental Stress: Historical Perspectives and Future Directions	Denver, CO
2009	Symposium (Speaker)	Stress Physiology – Neurovascular Responses to Mental Stress (<i>Mid-Atlantic Meeting</i>)	Harrisburg, PA

American Kinesiology Association

2016	Featured Oral (Session Chair and Speaker)	<i>Session: Building Support Within The Department</i> Building Departmental Support through Strategic Partnerships	San Antonio, TX
2016	Featured Oral (Speaker)	2016 AKA Workshop Survey: Innovation and Entrepreneurship in a Time of Shrinking Budgets	San Antonio, TX

APLU Council on Research

2019	Symposium (Co-chair and Speaker)	<i>Session: Research Infrastructure and Core Facilities</i> Core Facilities Survey: Preliminary Results	Bozeman, MT
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Federal Demonstration Partnership

2020	Concurrent Session (Speaker)	FACT: Role of Perceived Trust in Faculty-Administrative Research Workload	Virtual (due to COVID-19)
2017	Concurrent Session (Speaker)	FACT: Quantitative Subgroup Findings	Washington, D.C.

Federation of American Societies for Experimental Biology

2023	Symposium (Session Co-Chair*)	<i>Session – Sleep and Homeostasis: Would Walter Cannon Advise More Sleep?</i> <i>*Post-doc had to co-chair due to funeral attendance.</i>	Long Beach, CA
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2021	Symposium (Speaker)	<i>Session – Medical Physiology Refresher Course: Sleep Physiology and Sleep Disorders</i> Sleep Disorder/Insufficiencies and the Autonomic Nervous System	Virtual (due to COVID-19)
2019	Symposium (Speaker)	Insomnia, Short Sleep Duration, and Risk of Hypertension	Orlando, FL
2017	Symposium (Speaker)	Consequences of Sleep Deprivation and Circadian Misalignment on Sympathoneural and Adrenomedullary Control	Chicago, IL
2016	Featured Topic (Session Co-Chair and Speaker)	<i>Session – The Mind Matters: Psychology as an Overlooked Variable in Autonomic Physiology</i> Does Trait Anxiety Influence Muscle Sympathetic Nerve Activity Responsiveness in Humans?	San Diego, CA
2014	XSEC Symposium (Session Co-Chair and Speaker)	<i>Session - Sleepless in San Diego: Is Sleep Deprivation the New Silent Killer?</i> Sleep Deprivation, Sleep Apnea, and Neurovascular Control in Humans	San Diego, CA
2012	Featured Topic (Session Co-Chair)	Neural Control and Autonomic Regulation: Trainee Featured Topic	San Diego, CA
2010	Symposium (Session Co-Chair and Speaker)	<i>Session - Autonomic Adjustments to Stress</i> Differential Patterns of Sympathetic Neural Activity During Mental Stress	Anaheim, CA
2004	Featured Topic (Trainee Speaker)	Forearm Vascular Responses to Mental Stress and Otolithic Activation	Washington, D.C.

Gordon Conference

2018	Symposium (Session Speaker)	<i>Session – Sleep, Sleep Loss and Vascular Control</i> Neural Cardiovascular Control in Sleep Deprivation: Individual Responses	Galveston, TX
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National Institutes of Health

2018	Symposium (Session Speaker)	Sleep and Hypertension: Why Sex Matters	Bethesda, MD
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The Physiological Society (PhysSoc)

2011	Symposium (Session Co-Chair and Speaker)	<i>Session – Sex and Autonomic Control in Humans</i> Sex and Sympathetic Neural Firing Patterns in Humans	Oxford, England
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SLEEP

2017	Symposium (Speaker)	Sympathetic Neural Activity in Chronic Insomnia	Boston, MA
2016	Featured Oral (Speaker)	Sympathetic Neural and Cardiovascular Control in Chronic Insomnia	Denver, CO
2014	Symposium (Speaker)	Sleep Deprivation and Neural Cardiovascular Control in Humans: Does Sex Matter?	Minneapolis, MN
2013	Featured Oral (Speaker)	Effects of the Ovarian Cycle on Sympathetic Neural and Cardiovascular Control after Total Sleep Deprivation	Baltimore, MD

Society of Research Administrators International (SRAI)

2018	Featured Oral (Speaker)	Research Productivity and Efficiency: Establishing Common Metrics for Local Context	Orlando, FL
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SELECTED COMMUNITY AND CAMPUS OUTREACH

The Role of Sleep in Maintaining Cardiovascular Health. Gallatin Valley Friends of the Sciences, Bozeman, MT [January 2021]. Provided a virtual presentation to a local nonprofit about the impact of sleep on cardiovascular health in humans, with a focus on differences between men and women.

Sleep and Collegiate Athletic Performance. Montana State University Student-Athletes, Bozeman, MT [October 2020]. Provided a presentation to two independent classes in the athletic department in which we discussed the importance of sleep on human performance, with sport-specific examples.

Sleep and Sport Performance. Montana State University Athletic Department, Bozeman, MT [November 2019]. Provided a presentation to ~30 varsity coaches and athletic trainer on the importance of sleep in college athletes.

Importance of Sleep for High School Health and Performance. Hancock High School, Hancock, MI [April, 2019]. Provided a presentation to ~25 high school students on the importance of sleep on health and school performance during a Wiser YOUth event.

Sleep, Health, and Student Performance. Local AmeriCorp Teachers, Houghton, MI [April, 2019]. Provided a presentation to ~20 teachers on the importance of sleep on health and school performance.

Importance of Sleep for Middle School Health and Performance. Houghton-Portage Township Schools, Houghton, MI [February, 2018]. Provided a presentation to over 300 middle schoolers on the importance of sleep to their health and school performance.

MTU Research Development Day. Michigan Technological University, Houghton, MI [Jan, 2018]. Organized and facilitated a daylong training for both junior and senior faculty, with engaging case studies and federal agency presentations. Approximately 80 faculty and staff participated.

VPR Office Review Workshop: New Clinical Trials Definitions and Requirements. Michigan Technological University, Houghton, MI [November, 2017] Featured speakers to discuss the new NIH “clinical trials” definition, and the additional forms and review criteria. Lunch workshop sponsored by the Vice President for Research office.

Concussions, Strength and Conditioning, and Sleep: Impact for High School and Middle School Student-Athletes. Copper Country Intermediate School District. Houghton, MI [October, 2017]. Co-director of a 1 day workshop for high school and middle school teachers (area in-service day) focused on sports concussions, best-practices in youth strength and conditioning, and sleep.

Physiology Understanding (PhUn) Week Coordinator. Copper Country Intermediate School District. Houghton, MI [October, 2017]. Facilitated and organized visits by ~30 Michigan Tech undergraduate students into elementary, middle, and high schools to explore exercise physiology.

VPR Office Review Workshop: Navigating RePorter. Michigan Technological University, Houghton, MI [March, 2013] One of two featured speakers to discuss NIH tips, with an emphasis on using RePorter; afternoon workshop sponsored by the Vice President for Research office.

VPR Office Review Workshop: Peer-Review Process. Michigan Technological University, Houghton, MI [November, 2010] One of four featured speakers to discuss NIH review process; afternoon workshop sponsored by the Vice President for Research office.

Strategic Faculty Hiring Initiative in Health. Michigan Technological University, Houghton, MI [March, 2009] One of three finalist for a strategic faculty hiring initiative at Michigan Tech. Our proposal was accepted by upper administration and Michigan Tech Board of Control, with 10 planned hires in fiscal years 2010 and 2011.

Science Explorations at Michigan Tech: Exercise Science. Houghton Middle School, Houghton, MI [May, 2008] Director of a 2 day workshop with 6 sessions.

Cardiovascular Disease in America: Are You at Risk? Science Department, Cass Tech High School, Detroit, MI [November, 2006]

Physical Activity at Michigan Tech: What are Your Options? Graduate School, Michigan Technological University, Houghton, MI [August, 2006]

High School Science in a United States Classroom: a Teacher’s Perspective. Korean Teachers Summer Institute, Department of Education, Michigan Technological University, Houghton, MI [August, 2004]

GRADUATE STUDENT ADVISORY – COMPLETED

PRIMARY ADVISOR: (13 students; 7 Ph.D. and 6 M.S. awarded)

Jeremy Bigalke, Ph.D. (April, 2023)

Psychology, Montana State University

Impact of Trait Anxiety and Psychosocial Stress on Sympathetic Neural Control in Humans

Continuing as a post-doctoral fellowship in the laboratory at Baylor University (Waco, TX)

Jennifer Nicevski, M.S. (April, 2023)

Exercise and Nutritional Sciences, Montana State University

Impact of Acoustic Stimulation and Daytime Napping on Heart Rate Variability and Sleep Architecture
Accepted a laboratory technician position in the laboratory at Baylor University (Waco, TX)

Ian Greenlund, Ph.D. (August, 2022)

Psychology, Montana State University

Influence of Alpha Intrusion During Sleep: Psychological and Physiological Consequences

Accepted a post-doctoral fellowship with Dr. Virend Somers at Mayo Clinic (Rochester, MN)

Hannah Cunningham, M.S. (August, 2020)

Kinesiology, Michigan Technological University

Sympathetic Neural Responses to Acute Thermal Sensations

Accepted a laboratory tech position at Stanford University (Stanford, CA)

Ida Fonkoue, Ph.D. (December, 2016)

Biological Sciences, Michigan Technological University

Sympathetic Neural Reactivity to Stress in Humans: Reliability, Heredity and Race

Accepted a post-doctoral fellowship with Dr. Jeanie Parks at Emory Medical School (Atlanta, GA)

Huan Yang, Ph.D. (August, 2013)

Biological Sciences, Michigan Technological University

Influence of 24-hour Sleep Deprivation on Cardiovascular and Neural Control and Rest and during Stress Tests in Humans

Currently a post-doctoral fellow Dr. Janet Mullington at Harvard Medical School (Boston, MA)

Robert A. Larson, M.S. (December, 2012)

Biological Sciences, Michigan Technological University

Sleep Deprivation and Pain Intensity in Humans

Currently pursuing a Ph.D. with Dr. Qing-Hui Chen at Michigan Technological University (Houghton, MI)

Sarah F. Stream, M.S. (August, 2012)

Biological Sciences, Michigan Technological University

Acute Alcohol Ingestion and Sympathetic Neural Responses during Orthostatic Stress

Currently pursuing a Doctorate in Physical Therapy at University of Wisconsin (Madison, WI)

Christopher E. Schwartz, Ph.D. (December, 2011)

Biological Sciences, Michigan Technological University

Omega-3 Fatty Acids and the Neurovascular Responses to Mental Stress in Humans

Currently a Lecturer for the Department of Health & Human Physiology (Iowa City, IA)

Jennifer L. Witting, M.S. (December, 2011)

Biological Sciences, Michigan Technological University

Effects of Fixed Night Shift Work on 24 Hour Blood Pressure, State Anxiety Levels and Total Sleep Time

Currently working for Aspirus Hospital (Calumet, MI).

Johnathan E. Lawrence, Ph.D. (May, 2009)

Biological Sciences, Michigan Technological University

Effects of Endogenous Female Gonadal Hormones on the Vestibul sympathetic Reflex

Currently a post-doctoral fellow with Dr. Robert Winn at Northern Michigan University (Marquette, MI)

Angela K. Lucas, M.S. (May, 2009)

Biological Sciences, Michigan Technological University
Effects of Pediatric Adiposity on Heart Rate Variability
Currently the Director of Community Health at Portage Health Hospital (Houghton, MI)

John J. Durocher, Ph.D. (December, 2008)

Biological Sciences, Michigan Technological University
Aerobic Fitness and Lactate Metabolism in Collegiate Hockey Players
Currently an assistant professor of Biological Sciences at Michigan Tech University (Houghton, MI)

COMMITTEE MEMBER: (3 Ph.D. and 4 M.S. awarded)

Josh Gonzalez, Ph.D. (July, 2021)

Integrative Physiology, Michigan Technological University

Jeremy Bigalke, M.S. (May, 2019)

Kinesiology, Michigan Technological University

Ian Greenlund, M.S. (May, 2018)

Biological Sciences, Michigan Technological University

Andrew Chapp, Ph.D. (Dec, 2017)

Biological Sciences, Michigan Technological University

Robert A. Larson, Ph.D. (May, 2016)

Biological Sciences, Michigan Technological University

John J. Durocher, M.S. (May, 2006)

Exercise Science, Northern Michigan University

Jason E. Mayes, M.S. (December 2004)

Mechanical Engineering, Michigan Technological University

UNDERGRADUATE STUDENT RESEARCH ADVISORY

2023 Gianna Migliaccio, Emily Cleveland, Jenna-Marie Beisert, Ximena Solis, Stephen Bender
2022 Emma Kerkering, Gianna Migliaccio, Emily Cleveland
2021 Emma Kerkering, Tess Prepperneau, Gianna Migliaccio
2020 Baily Stroh, Emma Kerkering, Tess Prepperneau
2019 Elizabeth Bloch, Alexa Destampe, Bella Nutini, Abbie Botz, Courtney Kurkie, Morgan Colling
2018 Bo Depuis, Courtney Kurkie, Elizabeth Bloch, Abbie Botz, Morgan Colling
2017 Stephanie Deitrich, Courtney Kurkie, Elizabeth Bloch, Hannah Cunningham, Nick Carlson
2016 Stephanie Deitrich, Abbie Botz, Courtney Kurkie, Elizabeth Bloch, Hannah Cunningham
2015 Brett Gervais, Alyssa Chappman, Maria Frick
2014 Abby DeWitt, Kate Gladowski
2013 Abby DeWitt, Kate Gladowski, Taylor Kaurala
2012 Taylor Kaurala, Michelle King, Eli Gerard
2011 Melanie Hoffman, Michelle King, Kristen Reed
2010 Michelle King, Jenna Klein, Kelly Lufkin, Kristen Reed
2009 Angela Guisfredi, Jenna Klein, Kristen Reed, Ashley Yenior
2008 Derek Bustos, Jessica Cross, Jenna Klein

2007 Sarah Stream
2006 Aaron Arredondo

GRADUATE/POST-DOCTORAL TRAINEE RESEARCH AWARDS

EXTERNAL AWARDS

I have mentored 8 graduate students and 1 post-doctoral fellow who received the Caroline tum Suden Award and/or other awards from the American Physiological Society, as well as 2 graduate students who received the Michigan Space Grant Consortium Graduate Research Fellowship from the National Aeronautics and Space Administration.

- 2021 Ida Fonkoue (former graduate student)
Neural Control & Autonomic Control New Investigator Award, American Physiological Society
- 2021 Ian Greenlund (graduate student)
Neural Control & Autonomic Control Research Recognition Award for Graduate Students, American Physiological Society
- 2019 Ian Greenlund (graduate student)
Caroline tum Suden/Francis A. Hellebrandt Professional Opportunity National Award American Physiological Society
- 2019 Hannah Cunningham (graduate student)
Caroline tum Suden/Francis A. Hellebrandt Professional Opportunity National Award American Physiological Society
- 2015 Ida T. Fonkoue, PhD (graduate student)
Outstanding Graduate Student Oral Award
Michigan Physiological Society
- 2015 Ida T. Fonkoue, PhD (graduate student)
Caroline tum Suden/Francis A. Hellebrandt Professional Opportunity National Award
American Physiological Society
- 2014 Robert A. Larson, PhD (graduate student)
Caroline tum Suden/Francis A. Hellebrandt Professional Opportunity National Award
American Physiological Society (Declined due to CNS Research Recognition Award w/ QH Chen)
- 2011 John J. Durocher, PhD (post-doctoral fellow)
Caroline tum Suden/Francis A. Hellebrandt Professional Opportunity National Award American Physiological Society
- 2011 Huan Yang (graduate student)
Caroline tum Suden/Francis A. Hellebrandt Professional Opportunity National Award
American Physiological Society
- 2010 Christopher E. Schwartz (graduate student)
Michigan Space Grant Consortium Graduate Research Fellowship
National Aeronautics and Space Administration – Michigan Space Grant Consortium

- 2010 Sarah F. Stream (graduate student)
Caroline tum Suden/Francis A. Hellebrandt Professional Opportunity National Award
American Physiological Society
- 2010 Christopher E. Schwartz (graduate student)
Caroline tum Suden/Francis A. Hellebrandt Professional Opportunity National Award
American Physiological Society
- 2009 John E. Lawrence (graduate student)
Caroline tum Suden/Francis A. Hellebrandt Professional Opportunity National Award,
American Physiological Society
- 2008 John J. Durocher (graduate student)
Michigan Space Grant Consortium Graduate Research Fellowship,
National Aeronautics and Space Administration – Michigan Space Grant Consortium

INTERNAL AWARDS

- 2015 Ida T. Fonkoue, PhD (graduate student)
King-Chavez-Parks Graduate Fellowship, MTU Graduate School
- 2015 Ida T. Fonkoue, PhD (graduate student)
1st Place Poster Presentation Award, MTU Annual Graduate Student Colloquium
- 2012 Huan Yang (graduate student)
1st Place Oral Presentation Award, MTU Annual Graduate Student Colloquium

UNDERGRADUATE STUDENT RESEARCH AWARDS

EXTERNAL AWARDS

I have mentored undergraduate research assistants that were funded by the American Physiological Society (4 fellowships) and National Institutes of Health (1 supplemental grant).

- 2019 Morgan Colling, California Polytechnic State University (Biological Sciences)
Summer Undergraduate Research Fellowship
American Physiological Society
- 2013 Amanda Ross, Johns Hopkins University
Summer Undergraduate Research Fellowship - STRIDE
American Physiological Society
- 2010 Kelly Lufkin, Hope College (Kinesiology)
Summer Undergraduate Research Fellowship
American Physiological Society
- 2010 Jenna C. Klein, Michigan Tech University (Exercise Science)
ARRA-Funded NIH Research Supplement Grant for Undergraduate Research (R-15)
National Institutes of Health – National Heart, Lung and Blood Institute

2009 Jenna C. Klein, Michigan Tech University (Exercise Science)
Summer Undergraduate Research Fellowship
American Physiological Society

INTERNAL AWARDS

- 2017 Stephanie Deitrich, Michigan Tech University (Exercise Science)
1st Place in Undergraduate Research Expo (campus poster competition w/ over 70 participants)
Michigan Tech University – Pavlis Honors College
- 2016 Stephanie Deitrich, Michigan Tech University (Exercise Science)
Undergraduate Research Internship Program
Michigan Tech University – Pavlis Honors College
- 2016 Courtney Kurkie, Michigan Tech University (Exercise Science)
Undergraduate Research Internship Program
Michigan Tech University – Pavlis Honors College
- 2016 Abbie Botz, Michigan Tech University (Exercise Science)
Undergraduate Research Internship Program
Michigan Tech University – Pavlis Honors College
- 2012 Taylor Kaurala, Michigan Tech University (Exercise Science)
Summer Undergraduate Research Fellowship
Michigan Tech University – Vice President for Research Office
- 2011 Michelle K. King, Michigan Tech University (Exercise Science)
Summer Undergraduate Research Fellowship
Michigan Tech University – Vice President for Research Office
- 2009 Ashley S. Yenior, Michigan Tech University (Biological Sciences)
Summer Undergraduate Research Fellowship
Michigan Tech University – Vice President for Research Office
- 2009 Angela J. Guisfredi, Michigan Tech University (Exercise Science)
Summer Undergraduate Research Fellowship
Michigan Tech University – Vice President for Research Office
- 2008 Jenna C. Klein, Michigan Tech University (Biological Sciences)
Summer Undergraduate Research Fellowship
Michigan Tech University – Vice President for Research Office
- 2007 Sarah F. Stream, Michigan Tech University (Exercise Science)
Summer Undergraduate Research Fellowship
Michigan Tech University – Vice President for Research Office

UNIVERSITY COURSES TAUGHT

Michigan Technological University: (2002 – 2019)

Department of Biological Sciences:

BL 1040: Principles of Biology; BL 4210: Exercise Physiology; BL 5350: Special Topics - Autonomic Physiology

Department of Kinesiology & Integrative Physiology:

EH 1000: Intro to Exercise Science; EH 4200: Sports Nutrition Seminar; EH 4210: Exercise Physiology;

EH 4211: Exercise Physiology Laboratory; EH 4990: Exercise Science Internship

Central Michigan University: (2014 – 2015)

Doctorate of Physical Therapy Program: HSC 631: Advanced Exercise Physiology

ACTIVE PROFESSIONAL MEMBERSHIPS

American Autonomic Society

American College of Sports Medicine

American Physiological Society

Sleep Research Society

PROFESSIONAL SERVICE* (*Excludes leadership positions listed on pg 2)**American Autonomic Society**

- Meeting Committee (2013-2015)

American Kinesiology Association

- Workshop Planning Committee (2017-present)
- Presidential Task Force – AKA Leadership Institute (2017)
- Membership Committee (2012-2015)

Federation of American Societies for Experimental Biology

- Experimental Biology Conference Itinerary Builder Review Committee (2009)

Journal Editorial Board

- *Am J Physiol – Heart and Circ Physiol* (2019-present); Associate Editor (2021-present)
- *Am J Physiol - Reg, Integr and Comp Physiology* (2010-2020); Associate Editor (2019-2020)
- *Experimental Physiology* (2016-present)

Manuscript peer-review for:

- *Alcohol*
- *American Journal of Physiology - Heart and Circulatory Physiology*
- *American Journal of Physiology - Regulatory, Integrative and Comparative Physiology*
- *American Journal of Physiology - Renal Physiology*
- *Applied Physiology, Nutrition and Metabolism*
- *Biological Psychology*
- *Brain, Behavior, and Immunity*
- *Circulation*
- *Clinical Autonomic Research*
- *Experimental Brain Research*
- *Hypertension*

- *Journal of Applied Physiology*
- *Journal of Physiology (London)*
- *Medicine Science in Sports and Exercise*
- *Physiology*
- *Physiology and Behavior*

National Aeronautics and Space Administration

- Cardiovascular Risk Scientific Review Panel (2012-2016)

National Institutes of Health

- MESH Study Section – Standing Member (Term, 2021 – 2025)
- MESH Study Section – Ad hoc reviewer (June 25-26, 2020)
- MESH Study Section – Ad hoc reviewer (June 17-18, 2019)
- Special Emphasis Panel – ZRG1 BBBP-Z 04 (July 13-14, 2016)
- Special Emphasis Panel – ZRG1 BBBP-Y 02 (July 17, 2015)
- CICS Study Section – Ad hoc reviewer (Feb 17-18, 2011)
- CICS Study Section – Ad hoc reviewer (June 16-17, 2011)

ADVANCEMENT WORK (only gifts ≥ \$25,000)

\$40,000 Gift for Roy ('59) and Ruth Jurva Student Lounge (2014)

- Identified, cultivated, and managed (Dean of Sciences and Arts assisted with identification and cultivation; Major Gift Officer assisted with cultivation and ask)
- Used to partially fund the renovation/construction of a designated student lounge for the Doctorate in Physical Therapy (DPT) satellite program with Central Michigan University

\$25,000 Gift from SuperiorIdeas Crowdfunding (2013)

- Identified, cultivated, asked, received, and managed the over 15 gifts that totaled \$25k
- Used to enhance research collaborations with the Portage Health Sleep Disorders Center.

\$250,000 Gift from multiple Upper Peninsula hospitals and healthcare units (2012)

- Identified, cultivated, asked, received, and managed these gifts; received support from Dean of Sciences and Arts, who accompanied me on several visits
- One \$125,000 matching gift from the Upper Peninsula Health Care Network
- Four independent \$25,000 gifts from four local and regional hospitals (War Memorial Hospital, Portage Health, Aspirus-Kewennaw, Dickinson Memorial)
- One \$25k gift from a Michigan Tech alumnae
- Funds will be used to renovate for the developing Doctorate in Physical Therapy (DPT) satellite program with Central Michigan University

\$25,000 Gift from Superior National Bank (2008)

- Identified, cultivated, asked, received, and managed the gift
- Used to enhance Exercise Physiology Teaching Laboratory

UNIVERSITY SERVICE

University

2018-2019

Associate Vice President for Research Development

2012-2019

Vice President for Research Advisory Committee (FDP Representative)

2016-2018	Assistant to the Vice President for Research for Research Development
2013-2015	Executive Committee, Biotechnology Research Center
2013	Vice President for Research Task Force – Core Facilities
2011	Research Excellence Fund Seed Grant Review Committee
2010, 2011	Internal Reviewer for Bhakta Rath Research Award
2010	Vice President for Research Task Force – Research Incentive Return
2009-2011	University Strategic Faculty Hiring Initiative in Health, Steering Committee
2008, 2009	Internal Reviewer for Summer Undergraduate Research Fellowships
2007	Internal Reviewer for Barry M. Goldwater Scholarship
2006-2008	AQIP Learning Space Enhancement Committee

College

2012-2016	Associate Dean
2013-14	Psychology Chair Search Committee
2012-13	Biological Sciences Chair Search Committee
2009-2010	Psychology Faculty Search Committee
2007-2008	College of Sciences & Arts Dean Search Committee
2006, 2007	Summer Reading Program for Freshman Orientation (Discussion Leader)
2006-2007	Psychology Faculty Search Committee

Department

2006-2018	<p>Department Chair (primary duties listed below)</p> <ul style="list-style-type: none"> • General operation of the department • Control and maintenance of the departmental budget • Faculty/staff recruitment and hiring • Oversee departmental reappointment, promotion, and tenure process • Assignment of teaching and service loads • Personnel and program development • Assignment of merit pay • Allocation and distribution of travel funds • Maintain an open, working relationship with other units on campus • An active role in fundraising and alumni relations
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Curriculum Vitae Highlights

>\$75 million in total external research funding:

- ~\$7.5 million as PI (primarily NIH, industry, and foundation grants)
- ~\$66.5 million as co-I (includes NIH UL1, DoD, and industry grants)
- ~\$40k as faculty mentor for external student fellowships (3 undergraduate, 2 graduate)

>120 peer-review journal publications:

- Majority within *Am J Physiol* series; several within *J Physiol* and *Hypertension*
- Invited Reviews in *Comprehensive Physiology*, *J Neurophysiology*, *Auto Neurosci*, etc.

National/International Oral Sessions:

- 10 invited session chair/co-chair symposia at AAS, ACSM, AKA, APLU, FASEB, and PhysSoc
- 30 invited oral presentations at AAS, ACSM, AKA, APLU, FASEB, FDP, SLEEP, and SRAI

Graduate/Undergraduate Mentorship:

- 10 completed graduate students (5 Ph.D. and 5 M.S.)
- 8 graduate students and 1 post-doctoral fellow who received various APS awards
- 4 undergraduate summer research fellowships funded by APS or NIH supplemental grant

Professional Society Leadership:

- Executive Committee, APLU Council on Research (2020-2022)
- Councilor, American Physiological Society (2019-2022)
- President, American Kinesiology Association (2018-2019)
- Executive Committee, American Kinesiology Association (2015-2020)
- Steering Committee, Neural Control & Autonomic Regulation (NCAR) (2008-2012, 2015-2018)
- President, Michigan Physiological Society (2014-2015)

Key Professional Service:

- Standing Member of NIH MESH Study Section (2021-present)
- Associate Editor, *Am J Physiol – Heart and Circ Physiol* (2021-present)
- Associate Editor, *Am J Physiol – Reg, Integr and Comp Physiology* (2019-2020)
- Cardiovascular Risk Scientific Review Panel for NASA (2012-2015)

National Honors/Awards:

- AKA Jerry R. Thomas Distinguished Leadership Award (2021)
- APLU Council on Research Leader Fellow (2017 – 2019)
- Elected Fellow, National Academy of Kinesiology (2017)
- 3 Research Recognition Award from APS sections – NCAR, CNS, and Teaching (2009-2012)

Advancement/Fundraising:

- 7-member executive steering committee for a \$101M gift to MSU College of Nursing
- Primary on four major gifts from alumni and corporate sponsors totaling \$340,000; majority for renovation associated with Doctorate in Physical Therapy partnership w/ Central Michigan Univ.
- Three endowed professor positions related to biomedical sciences and engineering.

19 years of progressive advancement in higher education (i.e., Department Chair, Associate Dean, Associate VPR, VPR, Dean) and key professional societies (i.e., APS, AKA, APLU) while maintaining a visible and funded research program in autonomic and sleep physiology.