

# JACQUELINE M. CRISSEY

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Updated April 2024

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## EDUCATION

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- Ph.D. Biomedical Sciences, *University of Missouri-Columbia*** **2013**  
*Concentration:* Cardiometabolic Exercise Physiology  
*Dissertation:* Vascular Actions of Insulin in Cardiometabolic Disease: Effects of Metformin, Physical Activity, and Intrinsic Aerobic Fitness
- M.S. Exercise Physiology, *University of Texas-Austin*** **2008**  
*Concentration:* Skeletal Muscle Physiology  
*Thesis:* Efficacy of a nutritional supplement to reduce skeletal muscle mass loss and maintain muscle function in a rodent model of muscle atrophy.
- B.S. Biology, *Trinity University-San Antonio*** **2004**  
Minors: Chemistry and Studio Art  
*Undergraduate Research:* Cardiovascular aerospace physiology, combat casualty applied physiology, and organic chemistry research.

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## RESEARCH INTERESTS

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Physical activity and sedentary behaviors impact on glycemic control in health & disease | Climate impacts on glucose control and health outcomes in diabetes | Sex differences in glucose metabolism | Justice, equity, diversity, and inclusion in higher education | Stress, trauma, and somatic regulation of the nervous system | Community-engaged physical activity promotion

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## ACADEMIC TEACHING APPOINTMENTS

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- Assistant Professor, Human Physiology** **2023 —**  
Gonzaga University (GU), School of Health Sciences
- Anatomy & Physiology Coordinator, Lecturer, Human Physiology** **2022 – 2023**  
Gonzaga University (GU), School of Nursing and Human Physiology
- Visiting Assistant Professor of Health & Human Performance** **2020 – 2022**  
College of Idaho (C of I)
- Invited Faculty Lecturer of Nutritional Sciences** **2014 – 2015**  
University of Texas-Austin (UT-Austin)
- Adjunct Faculty Instructor of Nutrition & Exercise Physiology** **2013**  
University of Missouri-Columbia (MU)
- Graduate Teaching Assistant, Biology Department** **2007 -2008**  
University of Texas-Austin (UT-Austin)
- Graduate Teaching Assistant, Kinesiology Department** **2006**  
University of Texas-Austin (UT-Austin)
- Undergraduate Teaching Assistant, Biology Department** **2003-2004**  
Trinity University (Trinity)

## TEACHING EXPERIENCE

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|---|-------------------|
| <b><u>Assistant Professor, Human Physiology (Gonzaga University)</u></b>  | <b>2023 —</b>     |
| <ul style="list-style-type: none"><li>• HPHY 242: Human Anatomy &amp; Physiology II (2 sections, 45 students, Spring 2024)</li><li>• HPHY 242L: Human Anatomy &amp; Physiology II Lab (11 students, Spring 2024)</li><li>• HPHY 441L: Guided Experimental Design (6 students, Spring 2024)</li><li>• HPHY 376: Exercise Physiology (21 students, Fall 2023)</li><li>• HPHY 376L: Exercise Physiology Lab (11 students, Fall 2023)</li><li>• HPHY 205: Experimental Design &amp; Statistics (21 students, Fall 2023)</li></ul>   |                   |
| <b><u>Anatomy &amp; Physiology Coordinator, Lecturer, Human Physiology (Gonzaga University)</u></b>   | <b>2022-2023</b>  |
| <ul style="list-style-type: none"><li>• HPHY 241: Human Anatomy &amp; Physiology I (35 students, Fall 2022)</li><li>• HPHY 241L: Human Anatomy &amp; Physiology I Labs (4 sections, 60 students, Fall 2022)</li><li>• HPHY 242: Human Anatomy &amp; Physiology II (2 sections, 61 students, Spring 2023)</li><li>• HPHY 242L: Human Anatomy &amp; Physiology II Labs (2 sections, 31 students, Spring 2023)</li></ul>   |                   |
| <b><u>Visiting Assistant Professor of Health &amp; Human Performance (College of Idaho)</u></b>   | <b>2020-2022</b>  |
| <ul style="list-style-type: none"><li>• HHP-110/L: Introduction to Exercise Science Lecture &amp; Labs (36 students- Spring 2022)</li><li>• HHP-411: Cardiopulmonary Physiology (9 students- Winter 2022)</li><li>• HHP-343/L: Physiology of Exercise I Lecture &amp; Labs (24 students- Fall 2021)</li><li>• HHP-203: Health and Wellness (35-70 students: Fall 2020; Spring 2021, Fall 2021)</li><li>• HHP-199T: Move or Die from Physical Inactivity (40 students- May Term 2021)</li><li>• HHP-151: Personal Fitness (20 students- Fall 2021)</li><li>• HHP106/L: Intro Human Anatomy &amp; Physiology Lecture &amp; Labs (35 students- Spring 2021)</li><li>• BIO-159/L: Cellular Basis of Physiology Lecture and Labs: (12 students, Fall 2020)</li><li>• HHP-343L: Physiology of Exercise I Lab (11 students- Fall 2020)</li><li>• BIO-490 Laboratory Teaching Assistant (Fall 2020, Fall 2021)</li><li>• HHP-496 Collaborative Research (Winter 2021, Summer 2021, Fall 2021)</li></ul> |                   |
| <b><u>Invited Faculty Lecturer Nutritional Sciences (UT-Austin)</u></b>   | <b>2014- 2015</b> |
| <ul style="list-style-type: none"><li>• NTR-306: Fundamentals of Human Nutrition (~150 students)</li></ul>  |                   |
| <b><u>Adjunct Faculty Instructor, Nutrition &amp; Exercise Physiology (University of Missouri)</u></b>  | <b>2013</b>       |
| <ul style="list-style-type: none"><li>• NEP 3850W: Physiology of Exercise - Writing Intensive Lecture &amp; Lab (15 students)</li></ul>   |                   |
| <b><u>Graduate Teaching Assistant, Biology Department (UT-Austin)</u></b>   | <b>2007- 2008</b> |
| <ul style="list-style-type: none"><li>• BIO-371L Experimental Physiology - Writing Intensive Lab (~15 students)</li></ul>   |                   |
| <b><u>Graduate Teaching Assistant, Kinesiology Department (UT-Austin)</u></b>   | <b>2006- 2007</b> |
| <ul style="list-style-type: none"><li>• KIN-424K Applied Human Anatomy Lab (~30 students)</li></ul>   |                   |
| <b><u>Undergraduate Teaching Assistant, Biology Department (Trinity University)</u></b>   | <b>2003-2004</b>  |
| <ul style="list-style-type: none"><li>• BIOL-3463 Developmental Biology Lab (~15 students)</li></ul>  |                   |

## ACADEMIC & PROFESSIONAL RESEARCH EXPERIENCE

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**Physical Activity & Fitness Consultant**, *Magnolia Montessori for All: PK-6<sup>th</sup> Austin ISD* **2019 - 2020**  
Pilot public school-based physical activity program within a Montessori curriculum in preschool, elementary, and middle school children. Advised school administration on research supporting physiological, socio-emotional, and academic benefits of increased physical activity.

### **ALK-Abello Pharmaceuticals (2016- 2019)**

**Manager of Scientific Affairs & Services** **2018- 2019**  
Managed the Scientific Affairs Department, directed a team of Scientific Advisors, Nurse Trainers, and Medical Science Liaisons, to provide healthcare consultations and research collaborations in allergic disease and drug allergy.

**Medical Science Liaison** **2017-2018**  
Supported healthcare professionals as a Scientific Liaison in human and veterinary allergy and immunology. Offered multidisciplinary scientific training programs for Allergy Consultants & Sales Representatives across multiple business units within Commercial, Marketing, Pharmacovigilance, Regulatory, and Legal Departments.

**Scientific Advisor** **2016 -2017**  
Coordinated and provided medical scientific educational and technical support to healthcare professionals in the diagnosis, treatment, and management of allergic disease. Implemented and managed a cloud-based interactive global support platform to manage medical information requests, ensuring pharmacovigilance and CBER FDA Compliance.

**Postdoctoral Research Fellow**, *University of Texas at Austin* **2014- 2016**  
Designed and managed NIH funded studies investigating nutritional interventions and circadian rhythms to prevent obesity, type 2 diabetes, and cardiovascular disease. Mentored and trained undergraduate and graduate students and maintained IRB/IACUC compliance.

**Graduate Research Assistant**, *University of Missouri- Columbia* **2008-2013**  
Biomedical Sciences and Nutrition & Exercise Physiology Departments. Managed multiple studies assessing metabolic, vascular, and skeletal muscle function in animal and human models of insulin resistance, type 2 diabetes, obesity, and cardiometabolic disease. Awarded University funded grants, published clinical findings in 8 high impact journal publications.

**Research Scientist Associate**, *Brooke Army Medical Center* **2004-2006**  
US Army Institute of Surgical Research: Directed DOD Clinical Trials in combat casualty care research, assessed the safety and efficacy of hemostatic and resuscitation therapies.

**Undergraduate Research Fellow**, *Trinity University* **2003-2004**  
Biology Department, San Antonio, TX

**NASA Spaceflight and Life Sciences Trainee**, *Kennedy Space Center* **2003**  
Undergraduate Summer Research Program, Cape Canaveral, FL

**Undergraduate Summer Research Internship**, *Brooke Army Medical Center* **2002**  
US Army Institute of Surgical Research, Fort Sam Houston, TX

**Undergraduate Student Research Fellow**, *Trinity University* **2001**  
Department of Chemistry, San Antonio, TX

## PROFESSIONAL ACADEMIC DEVELOPMENT

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| <b>Women in Science &amp; Engineering Leadership Institute Training Program</b><br><i>Three-month course on unintentional bias and evidence-based strategies for minimizing bias</i>           | 2023       |
| <b>Center for Teaching &amp; Advising, Gonzaga University: Inclusive Pedagogy Reading Group</b><br><i>Bi-weekly faculty discussions on: 'What Inclusive Instructors Do (and How to Do it)'</i> | 2022- 2023 |
| <b>American College of Sports Medicine Conference</b><br><i>National Annual Scientific Research Conference</i>   | 2021       |
| <b>The Society for Women's Health Research Understanding the Roles of Sex and Gender</b><br><i>Virtual Congressional Briefing</i>  | 2021       |
| <b>NIH Improving Outcomes for Maternal Health Conference</b><br><i>Small Business Innovation Research - Perinatal and Postpartum Diagnostic Technology</i>                                     | 2021       |
| <b>Where the Road Intersects: Defining Mentorship that Works for Me, You, and We</b><br><i>Tim Raines, Associate Director of Undergraduate Research at Emory University</i>                    | 2021       |
| <b>Representation, Inclusion, Equity, and Recruitment and Retention of Student Researchers</b><br><i>Tim Raines, Associate Director of Undergraduate Research at Emory University</i>          | 2021       |
| <b>Northwest American College of Sports Medicine Regional Conference</b><br><i>Virtual Regional Annual Conference</i>  | 2021       |
| <b>It's a Different World: Helping Students Navigate Graduate School</b><br><i>Tim Raines, Associate Director of Undergraduate Research at Emory University</i>                                | 2021       |
| <b>Murdock College Science Research Conference</b><br><i>"Technology 20/20- Seeing is Believing" Virtual Annual Conference</i>   | 2020       |
| <b>Behavioral Health Conference: Trauma, Addiction, and the Nervous System</b><br><i>Idaho Behavioral Health Virtual Conference- Collaboration with Cecilee Heath, LCSW</i>                    | 2020       |
| <b>REMOTE: The Connected Faculty Summit</b><br><i>Virtual Summer Conference Hosted by Arizona State University</i>   | 2020       |
| <b>Texas Midwives Educational Research Summit</b><br><i>Midwives Advisory Board. San Marcos, Texas</i>   | 2020       |
| <b>Grant Writing Workshop: "Write Winning Grant Proposals"</b><br><i>University of Texas-Austin</i>  | 2014       |
| <b>Postdoctoral Prep Workshop</b><br><i>University of Alabama-Birmingham</i>   | 2013       |
| <b>Celebration of Teaching Workshop</b><br><i>University of Columbia-Missouri</i>  | 2013       |
| <b>Writing and Reviewing for Scientific Journals</b><br><i>American Physiological Society Professional Skills Training Course</i>  | 2010       |
| <b>Making Scientific Presentations: Critical First Skills</b><br><i>American Physiological Society Professional Skills Training Course</i>   | 2009       |

## ACADEMIC CITIZENSHIP & SERVICE

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| <b>Gonzaga University Arrupe Faculty Seminar</b><br><i>Explore Gonzaga's mission and contemporary engagement within modern Jesuit Higher Education</i>                       | 2023- 2024 |
| <b>Gonzaga University: Searching for Excellence &amp; Diversity Workshop</b><br><i>Small group presenter and facilitator for a campus-wide diversity initiative workshop</i> | 2023       |
| <b>Gonzaga Human Physiology Faculty Search Committee: Anatomy &amp; Physiology Coordinator</b>   | 2023       |

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|---|-------------|
| <b>Gonzaga Cataldo Project and Laudato Si Pedagogy</b><br><i>Multidisciplinary climate pedagogy and sustainability practices to teaching and scholarship</i>                            | 2023        |
| <b>UW School of Medicine-GU Partnership: Human Anatomy Cadaver Laboratory</b><br><i>Integrated cadaver lab experiences into Human Anatomy &amp; Physiology Undergraduate Curriculum</i> | 2022- 2023  |
| <b>Center for Teaching &amp; Advising, Gonzaga University</b><br><i>Monthly Workshops and Advising Academy</i>  | 2022- 2023  |
| <b>Gonzaga University Ignatian Mission Faculty Formation Program</b><br><i>Faculty cohort committed to reflective embodiment of the mission in scholarship and teaching</i>             | 2022- 2023  |
| <b>New Faculty Learning Community, Gonzaga University</b><br><i>Monthly faculty support group discussing teaching, scholarship, service, and advising</i>                               | 2022- 2023  |
| <b>UW School of Medicine-GU Faculty Reviewer for Student Research Poster Session</b><br><i>Served as a Faculty Reviewer for Poster Presentations</i>                                    | 2022        |
| <b>College of Idaho Faculty Search Committee, Health &amp; Human Performance Department</b>   | 2021        |
| <b>College of Idaho Faculty Research Advisor</b><br><i>Health &amp; Human Performance and Biomedical Science Students</i>   | 2021 - 2022 |
| <b>College of Idaho Faculty Moderator Student Research Conference</b><br><i>Gender Research Thematic Session</i>  | 2021        |
| <b>Kathryn Albertson Scholarship Competition Faculty Reviewer</b><br><i>Conducted student interviews, and evaluated student essays</i>  | 2021        |
| <b>College of Idaho Prospective Student Interviews</b><br><i>Met with students interested in Health and Human Performance, and Allied Health Careers</i>                                | 2020 - 2021 |
| <b>Murdock College Science Research Conference Faculty Judge</b><br><i>Served as a Judge for 14 Oral Life Sciences Student Presentations</i>  | 2020        |
| <b>Medicine &amp; Science in Sports &amp; Exercise- Journal Reviewer</b>  | 2014 - 2017 |
| <b>International Journal of Obesity- Journal Reviewer</b>   | 2014 - 2017 |
| <b>Postdoctoral Advisor- Three Undergraduate Students' Honors Thesis Research Projects</b><br><i>Nutritional Sciences Department, UT-Austin</i>   | 2014 - 2015 |
| <b>Intellectual Entrepreneurship Pre-Graduate Student Mentor</b><br><i>Nutritional Sciences Department, UT-Austin</i>   | 2014 - 2015 |
| <b>Health Sciences Graduate Student Association Member</b><br><i>University of Missouri, Columbia, MO</i>   | 2008- 2013  |

#### PROFESSIONAL SOCIETY MEMBERSHIPS

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| American Physiological Society                            | 2006 —      |
| American College of Sports Medicine (National & Regional) | 2008 —      |
| National Postdoctoral Association                         | 2014 - 2016 |
| American Heart Association                                | 2012        |

#### MANUSCRIPTS IN PREPARATION \*Undergraduate co-authors are noted with an asterisk

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- \*Rowe L, Laye MT, and **Crissey JM**. "Immediate post-breakfast physical activity improves postprandial glycemia to mixed meals with high or low glycemic index"
- **Crissey JM**, Padilla J, Jenkins NT, Rector RS, Thyfault JP, and Laughlin MH. "Metformin and exercise training combined therapies does not enhance insulin-stimulated vasodilation in the obese insulin resistant OLETF rat."
- Guitierrez Lopez D, **Crissey JM**, and Bray MS. "Sex dependent influences of time-of-day-dependent dietary fat consumption on metabolism and body composition in mice."
- Guitierrez D, **Crissey JM**, and Bray MS. "Time-of-day of dietary fat intake influences diurnal fluctuations in the gut microbiome and metabolism in mice."

## PEER REVIEWED PUBLICATIONS

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**26 publications (614 citations)** in *J Appl Phys*, *Am J Physiol Endocrinol Metab*; *Am J Physiol Regul Integr; Exp Physiol*; *Eur J Appl Physiol*; *Microcirculation*; and *J Trauma*.

### Complete List of Published Work in My Bibliography:

<https://www.ncbi.nlm.nih.gov/myncbi/jacqui.crissey.1/bibliography/public/>

- **Crissey JM**, Padilla J, Koch L, Britton S, Vieira-Potter VJ, Rector RS, Thyfault JP, and Laughlin MH. Divergent Role of Nitric Oxide in Insulin-Stimulated Aortic Vasorelaxation between Low and High Intrinsic Aerobic Capacity Rats. *Physiol Rep*. 2015 Jul;3(7).
- Vieira-Potter V, Padilla J, Scroggins R, Park Y, Welly R, Britton S, Koch L, Jenkins N, **Crissey JM**, Morris M, Meers G, Thyfault J. Female Rats Selectively Bred for High Intrinsic Aerobic Fitness Are Protected from Ovariectomy-Associated Metabolic Dysfunction. *Am J Physiol Regul Integr Comp Physiol*. 2015 Mar 15;308(6): R530-42.
- **Crissey JM**, Jenkins NT, Lansford KA, Thorne PK, Bayless DS, Vieira-Potter VJ, Rector RS, Thyfault JP, Laughlin MH, Padilla J. Adipose tissue and vascular phenotypic modulation by voluntary physical activity and dietary restriction in obese insulin-resistant OLETF rats. *Am J Physiol Regul Integr Comp Physiol*. 2014 Apr;306(8): R596-606.
- Linden MA, Fletcher JA, Morris EM, Meers GM, Kearney ML, **Crissey JM**, Laughlin MH, Booth FW, Sowers JR, Ibdah JA, Thyfault JP, and Rector RS. Combining Metformin and Aerobic Exercise Training in the Treatment of Type 2 Diabetes and NAFLD in OLETF Rats. *Am J Physiol Endocrinol Metab*. 2014 Feb;306(3): E300-10.
- Jenkins NT, Padilla J, Martin JS, **Crissey JM**, Thyfault JP, Rector S, and Laughlin MH. Differential Vasomotor Effects of Insulin on Gastrocnemius and Soleus Feed Arteries in the OLETF Rat Model: Role of Endothelin-1. *Exp Physiol*. 2014 Jan;99(1):262-71.
- **Crissey JM**, Padilla J, Jenkins NT, Martin JS, Rector RS, Thyfault JP, and Laughlin MH. Metformin does not enhance insulin-stimulated vasodilation in skeletal muscle resistance arteries of the OLETF rat. *Microcirculation*, 2013 Nov;20(8):764-75.
- Martin JS, Padilla J, Jenkins NT, **Crissey JM**, Bender, SB, Rector RS, Thyfault JP, and Laughlin MH. Functional adaptations in the skeletal muscle microvasculature to endurance and interval sprint training in the type 2 diabetic OLETF rat. *J Appl Phys*, 2012 Oct 15; 113(8): 1223-32.
- Ferreira JA, **Crissey JM**, Brown M. An Alternant Method to the Traditional NASA Hindlimb Unloading Model in Mice. *J Vis Exp*, 2011 Mar 10; (49).
- Kheirabadi BS, **Crissey JM**, Deguzman R, Perez MR, Cox AB, Dubick MA, Holcomb JB. Effects of synthetic versus natural colloid resuscitation on inducing dilutional coagulopathy and increasing hemorrhage in rabbits. *J Trauma*, 2008 May; 64(5): 1218-28; discussion 1228-9.
- Kheirabadi BS, **Crissey JM**, Deguzman R, Holcomb JB. In vivo bleeding time and in vitro thrombelastography measurements are better indicators of dilutional hypothermic coagulopathy than prothrombin time. *J Trauma*, 2007 Jun; 62(6): 1352-9; discussion 1359-61.
- Kheirabadi BS, Acheson EM, Deguzman R, **Crissey JM**, Delgado AV, Estep SJ, Holcomb JB. The potential utility of fibrin sealant dressing in repair of vascular injury in swine. *J Trauma*, 2007 Jan; 62(1): 94-103.
- Convertino VA, Ratliff DA, **Crissey J**, Doerr DF, Idris AH, Lurie KG. Effects of inspiratory impedance on hemodynamic responses to a squat-stand test in human volunteers: implications for treatment of orthostatic hypotension. *Eur J Appl Physiol*. 2005; 94(4): 392-9.

## GRANTS / RESEARCH SUPPORT

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**Gonzaga University Climate, Society, & Environment Microgrant:** 2022 -2023

*"Relationship between high ambient heat and running injury risk"*. (J.Zhang-Lea, CoPI: J.Crissey). This study investigated physiological responses and long-term risk in developing tendinopathy with frequent heat waves in the Inland Northwest examining the impact of heat on metabolic cost of running and morphological changes in the Achilles tendon in a climate chamber under different heat conditions.

**R01DK062148 NIH/NIDDK: "Training Interventions and Genetics of Exercise Response"** 2014 -2015

(PI: M. Bray). This study was designed to investigate potential genetic factors that influence an individual's response to a 15-week aerobic exercise intervention.

**University of Missouri College of Veterinary Medicine Grant:** (PI: J. Crissey). 2012 -2013

*"Role of Endothelin-1 in Vascular & Skeletal Muscle Insulin-Resistance"*. This study was designed to understand how ET-1 contributes to the development and progression of insulin resistance in the vasculature and skeletal muscle in obesity and Type 2 Diabetes.

**University of Missouri Life Sciences Doctoral Student Research Fellowship** 2008 -2012

*The Life Sciences Fellowship Program* is a nationally competitive 4-year funded research training fellowship. Every year one doctoral student is nominated by their program and Department for this prestigious fellowship.

### Submitted Grants:

**NIH P20 Exploratory Climate and Health Grant:** 2024-2027 *"Inland Northwest Climate and Environmental Public Health Initiative(INW-CEPHI)"* (PI: J. Crissey). This multi-center proposal focuses on vulnerable indigenous communities in the Inland Northwest, addressing knowledge gaps related to the impacts of heat on glycemic control, autonomic function, and safe physical activity in obese populations with impaired glucose regulation.

**NIH Ruth L. Kirschstein National Research Service Award Individual Postdoctoral Fellowship 1F32DK107208-01A1:** 2015-2018 *"Combating Obesity: Influence of Timed Physical Activity on Circadian Rhythms and Metabolism"* (PI: J. Crissey). This study was designed to determine whether timed physical activity can ameliorate circadian dyssynchrony and metabolic disturbances associated with an innovative rodent model of human shift work.

**The Obesity Society Early-Career Research Grant:** 2015-2016 *"The Effectiveness of Timed Exercise to Reduce Adiposity and Improve Metabolic Health"* (PI: J. Crissey). The purpose of this study was to identify and develop effective guidelines focused on the most appropriate timing of physical activity to treat obesity and improve cardio-metabolic health.

## INVITED RESEARCH TALKS

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- 2023 Gonzaga University, Human Physiology Department**  
*"Combating Dis-ease: Optimizing Physical Activity and Meal Timing for Cardiometabolic Health"*
- 2022 Linfield University, Health, Human Performance & Athletics Department**  
*"Combating Dis-ease: Optimizing Physical Activity and Meal Timing for Cardiometabolic Health"*
- 2019 Southwestern University, Kinesiology Department**  
*"Why Movement Matters for EveryBODY's Composition"*
- 2017 University of Texas-El Paso, Kinesiology Department**  
*"Combating Disease: Optimizing Physical Activity for Cardio-Metabolic Health"*
- 2017 Southwestern University, Kinesiology Department**  
*"Combating Disease: Optimizing Physical Activity for Cardio-Metabolic Health"*
- 2016 Texas Tech University, Kinesiology Department**  
*"Combating Disease: Optimizing Physical Activity for Cardio-Metabolic Health"*
- 2016 Gonzaga University, Sport, and Physical Education Department**  
*"Transforming Society by Optimizing Movement to Improve the Human Experience"*

- 2016 Gonzaga University, Human Physiology Department**  
*"Combating Disease and Promoting Health: Optimizing Human Physiology"*
- 2015 Fitbit Inc., Human Innovation Research Laboratory**  
*"Combating Disease: Optimizing and Promoting Physical Activity for Health"*
- 2014 University of Texas-Austin, Department of Nutritional Sciences**  
*"Vascular Actions of Insulin in Cardiometabolic Disease: Effects of Physical Activity and Metformin"*
- 2013 University of Missouri, Biomedical Sciences Department:** *"Vascular Actions of Insulin in Cardiometabolic Disease: Effects of Metformin, Physical Activity, and Intrinsic Aerobic Fitness"*
- 2013 University of Alabama-Birmingham, Center for Exercise is Medicine**  
*"Vascular Function in Obese Insulin Resistant Rats: Exercise vs. Metformin Therapy?"*
- 2013 University of Missouri, College of Veterinary Medicine, Phi Zeta Research Day**  
*"Effects of Exercise and Metformin on Microvascular Reactivity to Insulin in Obese Insulin Resistant Rats"*
- 2013 University of Missouri, Biomedical Sciences Department**  
*"Vascular Function in Obese Insulin Resistant Rats: Exercise vs. Metformin Therapy?"*
- 2013 University of Missouri Life Sciences Seminar Series**  
*"Vascular Function in Obese Insulin Resistant Rats: Exercise vs. Metformin Therapy?"*
- 2013 University of Missouri Cardiovascular Research Day- Advanced Graduate Student Research Talk**  
*"Effects of Exercise & Metformin on Microvascular Reactivity to Insulin in Obese Insulin Resistant Rats"*
- 2012 Central States American College of Sports Medicine Meeting,** *"Effects of Exercise & Metformin on Insulin-induced Vasodilation in Skeletal Muscle Arterioles of OLETF Rats"*
- 2012 University of Missouri Biomedical Sciences Department**  
*"Effects of Exercise on Insulin-Stimulated Vasodilation in Otsuka Long-Evans Tokushima Fatty Rats"*
- 2010 University of Missouri Biomedical Sciences Department**  
*"Estrogen, is it important to Skeletal Muscle?"*
- 2010 Experimental Biology National Conference**  
*"Hindlimb Unloading in Estrogen Replete and Estrogen Deficient Mice".*
- 2009 American College of Sports Medicine National Conference**  
*"Influence of Atherosclerosis and Exercise on Arterial Lipoprotein Lipase Activity in Pigs".*

## **SCIENCE & COMMUNITY OUTREACH**

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- Gonzaga Opportunity Northeast Initiative: Center for Community Engagement** **2023**  
*Northeast Spokane Immersion: growing partnerships with resident leaders and community partners*
- College of Idaho Faculty Advisor for Community Psychology Student Research Project** **2021**  
*"Promoting physical activity in college students"*
- College of Idaho Faculty Interview Student Podcast on Health Research Methods** **2021**  
*Translation of Animal Research to Advancing Human Health*
- Faculty Contributor College of Idaho Student Research in Business & Accounting** **2021**  
*"Ethical challenges of online education during the COVID-19 pandemic"*
- Hosted "Physiology Understanding Week" at Integrity Academy, Austin, TX** **2014**  
*In collaboration with the American Physiology Society*
- Hosted "Physiology Understanding Week" at Columbia Community Montessori Preschool, MO** **2011**  
*In collaboration with the American Physiology Society*
- Speaker for the "Science and Me" Public Understanding of Science Seminar Series** **2010**  
*"Move More Sit Less" Public Understanding of Science Program, University of Missouri*
- Graduate Student Mentor for Three Undergraduate Students' Honors Thesis Research Projects** **2008**  
*Kinesiology Department, University of Texas, Austin, TX*



## ACADEMIC AWARDS & HONORS

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|---|-------------------|
| <b>American College of Sports Medicine- Maximizing Access to Research Careers Program</b>     | <b>2014</b>       |
| <i>FASEB/ACSM Integrative Physiology of Exercise Conference Award</i>                         |                   |
| <b>APS First Place “Phantastic” Physiology Voyage: Function Follows Form</b>                  | <b>2012</b>       |
| <i>The American Physiological Society- Physiology Education Video Contest</i>                 |                   |
| <b>First Place Advanced Graduate Student Oral Presentation- University of Missouri</b>        | <b>2012</b>       |
| <b>Life Sciences Doctoral Research Training Fellowship- University of Missouri</b>            | <b>2008- 2012</b> |
| <b>Biomedical Sciences Department Research Travel Grant- University of Missouri</b>           | <b>2009- 2012</b> |
| <b>Graduate Student Association Research Travel Grant- University of Missouri</b>             | <b>2011</b>       |
| <b>Life Sciences Fellowship Research Travel Grant- University of Missouri Graduate School</b> | <b>2008</b>       |
| <b>Graduate Student Phi Kappa Phi Honor Society- University of Texas at Austin</b>            | <b>2006- 2008</b> |
| <b>United States Armed Forces Graduate Student Grant- University of Texas at Austin</b>       | <b>2007</b>       |
| <b>Outstanding Contribution to Hemostasis Research Honor</b>                                  | <b>2004- 2006</b> |
| <i>Brooke Army Medical Center: Institute for Surgical Research</i>                            |                   |
| <b>First Place Undergraduate Student Poster Award</b>   | <b>2003</b>       |
| <i>American Society for Gravitational and Space Biology Annual Meeting, Huntsville, AL</i>    |                   |
| <b>Henry H. Arnold Academic Excellence Grant- Trinity University, San Antonio, TX</b>         | <b>2000- 2004</b> |

## CONFERENCE ABSTRACTS & PRESENTATIONS

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1. Garbuz C, Jones E, **Crissey JM**, Lewis M, and Zhang-Lea J. *The Influence of Heat on Metabolic Cost During Running*. Poster presented at the University of Washington School of Medicine-Gonzaga University Regional Health Partnership Symposium, November 2023.
2. Jones E, Lewis M, **Crissey JM**, Garbuz C, and Zhang-Lea J. *Effect of high heat running environment on Achilles tendon morphology in runners*. Abstract submitted to Western Medical Research Conference, September 2023. Poster presented at the UWSOM-Gonzaga University Regional Health Partnership Symposium, November 2023.
3. Rowe L, Laye MT, and **Crissey JM**. *Immediate post-breakfast physical activity improves postprandial glycemia to mixed meals with high or low glycemic index*. Poster presented at the American College of Sports Medicine Meeting in San Diego, CA; May 31- June 4, 2022.
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6. **Jacqueline M. Crissey**, Jaume Padilla, Nathan T. Jenkins, Jeffrey S. Martin, John P. Thyfault, and Maurice H. Laughlin. *Endurance or Sprint Interval Exercise, and Metformin Treatment Differently Modify Insulin-Induced Vasodilation in Skeletal Muscle Arterioles of Obese Insulin Resistant Rats*. Poster presented at the American Diabetes Association 72<sup>nd</sup> Scientific Sessions in Philadelphia, PA: June 9-12, 2012.
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