

Gary L. Pierce, PhD, FAHA, FAPS
Professor and Chair/Department Executive Officer (DEO)
Russell B. Day and Florence D. Day Chair in Liberal Arts & Sciences
Department of Health, Sport, and Human Physiology
College of Liberal Arts and Sciences
The University of Iowa
Curriculum Vitae as of March 1, 2026

CONTACT INFORMATION

Campus Address: Department of Health, Sport, and Human Physiology, The University of Iowa
225 S. Grand Ave, E102A FH, Iowa City, IA 52242
Office: (319) 335-9487
Email: gary-pierce@uiowa.edu
Web: <https://hshp.uiowa.edu/people/gary-pierce>
LinkedIn: <https://www.linkedin.com/in/gary-l-pierce/>

EDUCATION AND PROFESSIONAL HISTORY

Post Graduate Education

2005 - 2009 Postdoctoral Research Fellow, Vascular Aging/Physiology
Department of Integrative Physiology, University of Colorado Boulder, Boulder, CO

Higher Education

2005 Ph.D., Applied Physiology & Kinesiology, University of Florida, Gainesville, FL
1997 M.S., Clinical Exercise Physiology, Northeastern University, Boston, MA
1994 B.S., Biology, Worcester State University, Worcester, MA

ACADEMIC LEADERSHIP AND ADMINISTRATION

July 2022- pres **Department Executive Officer (DEO)/Chair**, Department of Health, Sport, and Human Physiology*, College of Liberal Arts and Sciences, University of Iowa
(*department name changed from "Health and Human Physiology" to "Health, Sport, and Human Physiology" on July 1, 2025)

2018-2022 **Director of Graduate Studies**, Department of Health and Human Physiology, University of Iowa

2015-2018 **Director, Undergraduate Honors Program**, Department of Health and Human Physiology, University of Iowa

2013- present **Program Director, Clinical Exercise Physiology Graduate Program**, Department of Health, Sport, and Human Physiology, University of Iowa

2025- present **Chair, Presidential Committee on Athletics**, University of Iowa

PROFESSIONAL AND ACADEMIC POSITIONS

2022- present **Chair and Department Executive Officer (DEO)**, Department of Health, Sport, and Human Physiology, College of Liberal Arts and Sciences, University of Iowa

2021- present **Professor**, Department of Health, Sport, and Human Physiology, University of Iowa

2021- present **Professor**, Department of Internal Medicine, Division of Nephrology and Hypertension, University of Iowa Carver College of Medicine (secondary appt)

2014 - Present **Associate Member**, Environmental Health Sciences Research Center, College of

	Public Health, University of Iowa
2012 - Present	Faculty Member , Fraternal Order of Eagles Diabetes Research Center, Carver College of Medicine, University of Iowa
2017 - 2021	Associate Professor (with tenure) , Department of Health and Human Physiology, University of Iowa
2011 - 2017	Assistant Professor , Dept of Health, Sport, and Human Physiology, University of Iowa
2011 - 2013	KL2 Scholar , Institute for Clinical & Translational Science, University of Iowa
2009 - 2011	Assistant Professor , Georgia Prevention Institute, College of Medicine, Medical College of Georgia (current name Augusta University)
2005 - 2009	Postdoctoral Research Associate , Department of Integrative Physiology, University of Colorado at Boulder
2003 - 2005	American Heart Association Predoctoral Research Fellow , Department of Applied Physiology and Kinesiology, University of Florida
2001 - 2003	Graduate Teaching Assistant , Department of Applied Physiology and Kinesiology, University of Florida
1997 - 2001	Supervising Clinical Exercise Physiologist , Exercise Testing Laboratory, Division of Cardiovascular Medicine, Department of Medicine, Brigham and Women's Hospital, Boston, MA

LICENSES AND CERTIFICATIONS

1997- present	Certified Clinical Exercise Physiologist (#2650) , American College of Sports Medicine
---------------	---

HONORS AND AWARDS

2023	Fellow , American Physiological Society (FAPS)
2022- present	Russell B. Day and Florence D. Day Endowed Chair in Liberal Arts & Sciences , College of Liberal Arts and Sciences, University of Iowa
2016	Fellow , American Heart Association (AHA), Council on Hypertension
2015 - 2019	Strategically Focused Hypertension Research Network Grant , American Heart Association, Clinical Study PI (U of Iowa, one of four SFRN sites awarded)
2013 - 2017	Scientist Development Grant Award , American Heart Association National Center
2015 - 2017	Career Development Research Award , Environmental Health Sciences Research Center, College of Public Health, University of Iowa
2016	Research Leadership Academy (invited) , American Heart Association
2011 - 2013	KL2 Career Development Award , Institute for Clinical and Translational Science, University of Iowa
2009	Environmental and Exercise Physiology Section Beginning Investigator Recognition Award , American Physiological Society
2009	Research Career Enhancement Award , American Physiological Society
2008	Cardiovascular Section Young Investigator Research Recognition Award , American Physiological Society
2006 - 2008	Clinical Research Loan Repayment Program Award , National Institutes of Health
2007	Summer Institute on Aging Research , National Institute on Aging, National Institutes of Health (1 week)
2005 - 2007	NIH T32 Postdoctoral Research Fellowship , Division of Geriatric Medicine, University of Colorado Health Sciences Ctr, Denver
2003 - 2005	Predocctoral Fellowship , American Heart Assoc Florida/Puerto Rico Affiliate
2001 - 2002	J. Edmonds Predocctoral Fellowship , College of Health and Human Performance, University of Florida
1992	Beta Beta Beta Biology Honor Society , Chi Iota Chapter, Worcester St. University

PROFESSIONAL MEMBERSHIPS

2024- Present	American Kinesiology Association (departmental)
2022 - Present	Association of Chairs of Departments of Physiology (ACDP) (elected Councilor)
2017 - 2023	American College of Sports Medicine (ACSM)
2010 - Present	North American Artery Society (NAA) (elected Treasurer 2019)
2004 - Present	American Physiological Society (APS)
2003 - Present	American Heart Association (AHA)
1997 – 2012	American College of Sports Medicine (ACSM)

TEACHING

sh=semester hour; *indicates graduate course

Courses Taught at the University of Iowa, Dept of Health, Sport, and Human Physiology

2013-2022	HHP:4150 Clinical Exercise Physiology (3 sh)
2011-2022	HHP:4410 Exercise Physiology (3 sh)
2018-2022	HHP:4460 Cardiovascular Physiology (3 sh)
2012-2023	HHP:4900 Honors Undergraduate Research (3sh)
2012-2024	HHP:4500 Independent Study (3 sh)
2011-2024	*HHP:6400 Integrative Physiology Seminar (1 sh)
2014-2024	*HHP:6460 Adv. Cardiovascular Physiology discussion (1 sh)
2014-2022	*HHP:6410 Adv. Exercise Physiology discussion (1 sh)
2014-2024	*HHP:6510 Adv. Clinical Exercise Physiology discussion (1 sh)
2013-2024	*HHP:5935 Clinical Exercise Physiology Internship (3 sh) (supervisor)
2025-	*HHP:6600 Professional Skills for the Graduate Student (1 sh)

Courses Taught at the University of Iowa Carver College of Medicine

2017-2023	*MED:8124: Mechanisms of Health and Disease 1 (MOHD1): Delivered 1 didactic lecture (50 min) and 1 case study or VO ₂ max demo to first-year medical students (160 students)
-----------	--

Courses Taught at the University of Florida, Gainesville, FL

Fall 2001	PET:4781 Fitness Assessment Lab (teaching assistant)
Spr 2002	*PET:5389 Exercise Physiology Assessment Lab (teaching assistant)
2003-04	*PET:4520 Clinical Exercise Physiology (3 semesters- adjunct instructor)

Courses Taught at Santa Fe Community College, Gainesville, FL

Sum 2002	BSC:2086 Human Anatomy and Physiology II Lecture and Laboratory (4 sh)
----------	--

Courses Taught at Lasell University, Newton, MA

1999-2001	Exercise Physiology (3 sh)- 4 semesters
2000-2001	Pharmacology and EKG for Exercise Physiology (3 sh)- 2 semesters

STUDENT MENTORING***BS - Directed Individual/Independent Study, Supervisor***

2024-25	Anderson, Nate; <i>In Process</i>
2023-25	Barlow, Nathan; <i>In Process</i>
2023-25	Hakes, Hailey; <i>Completed</i>
2022-23	Thenuwara, Samalya; <i>Completed</i>
2022-23	Ernst, Jackson; <i>Completed</i>
Spring 2020	Foster, Grace; <i>Completed</i>
Spring 2020	Gruber, Kelsey; <i>Completed</i>

Spring 2020	Huesner, Jared; <i>Completed</i>
Spring 2020	Long, Mikalya; <i>Completed</i>
Fall-Spring 2019	Martin, Ben; <i>Completed</i>
Spring 2016	Lentner, Jacob; <i>Completed</i>
Fall 2015	Adebiyi, Mayowa; <i>Completed</i>
Spring 2014	Klosak, Randy; <i>Completed</i>
Spring 2014	Myers, Janie; <i>Completed</i>
Fall 2013	Myers, Janie; <i>Completed</i>
Spring 2013	Delillo, Emily; <i>Completed</i>
Spring 2013	Radolsky, Richard; <i>Completed</i>
2011 - 2012	Guinte, Mark; <i>Completed</i>

BS - Research Assistant/Intern, Supervisor (full-time or part-time paid)

2024-2025	Young, Tucker; <i>Completed</i>
2023-2024	Bell, Blair; <i>Completed</i>
2022- 2023	Bos, Kyle; <i>Completed</i>
2021- 2022	Guerrero, Mariah; <i>Completed</i>
2018- 2019	Ward, Ryan; <i>Completed</i>
2017- 2018	Gremaud, Allene; <i>Completed</i>
2016- 2017	Fitzsimmons, Adam; <i>Completed</i>
2016- 2019	O'Deen, Allison; <i>Completed</i>
2016- 2017	Wooldridge, BS, Nealy; <i>Completed</i>
2015- 2017	Myers, Janie; <i>Completed</i>
2015- 2017	Jensen, Nicholas; <i>Completed</i>
2014- 2015	Dubishar, Kaitlyn; <i>Completed</i>
2014- 2015	Myers, Janie; <i>Completed</i>
2013- 2014	Wehrle, Andrea; <i>Completed</i>

BS - Supervised Undergraduate Research- Fellowship Funded, Primary Mentor

Summer 2025	Anderson, Nate; In Process [awarded 2025 Iowa Center for Undergraduate Research (ICRU) summer fellowship]
Summer 2024, 2025	Barlow, Nathan; <i>Completed</i> [awarded 2024 and 2025 Iowa Center for Undergraduate Research (ICRU) summer fellowship]
Summer 2023	Hakes, Hailey; <i>Completed</i> [awarded 2023 Iowa Center for Undergraduate Research (ICRU) summer fellowship]
May – Dec 2023	Ernst, Jackson; <i>Completed</i> [awarded 2023 Iowa Center for Undergraduate Research (ICRU) Summer Research Fellowship; 2023 Amer Physiology Society Horowitz and Horowitz]

	Undergrad Research Poster Award],
Summer 2021	Gruber, Kelsey; <i>Completed</i> [awarded 2021 Iowa Center for Undergraduate Research (ICRU) research fellowship];
Summer 2020	Foster, Grace; <i>Completed</i> [awarded 2020 Iowa Center for Research by Undergraduates (ICRU) summer research fellowship]
Summer 2019	Martin, Ben; <i>Completed</i> [awarded 2019 Iowa Center for Research by Undergraduates (ICRU) summer research fellowship]
Summer 2017	Majee, Rumbi; <i>Completed</i> (awarded 2017 American Physiological Society STRIDE summer research fellowship)
Summer 2015	Rasor, Madalyn; <i>Completed</i> (awarded 2015 American Physiological Society STRIDE summer research fellowship);
2012- 2014	Ericka Tank; <i>Completed</i> [awarded 2013 Iowa Center for Undergraduate Research (ICRU) summer research fellowship; American Physiological Society UG Summer Research Fellowship; 2014 APS Horowitz and Horwitz Undergraduate Research Poster Award]

BS – Undergraduate Research Honors Thesis, Primary Mentor

August 2025- present	Anderson, Nate; <i>In process</i>
August 2022- May 2023	Staub, Ryan; <i>Completed</i>
August 2021- May 2022	Gruber, Kelsey; <i>Completed</i>
August 2019 - May 2020	Martin, Ben; <i>Completed</i>
Fall 2017 - Spring 2018	Majee, Rumbi; <i>Completed</i>
Fall 2017 - Spring 2018	Reierson, Leah; <i>Completed</i>
Spring 2017 - Fall 2017	Rader, Melissa; <i>Completed</i>
August 2015 - May 2016	Rasor, Madalyn, <i>Completed</i>
August 2015 - May 2016	Stecklein, Taylor; <i>Completed</i>
August 2013 - May 2015	Younatham, Ramsan; <i>Completed</i>
August 2013 - May 2014	Tank, Ericka; <i>Completed</i>

MD – Medical Student Supervised Research, Primary Mentor

May 2019 - August 2019	Ward, Ryan (PreM1 Carver College of Medicine, Medical Student Summer Research Fellowship); <i>Completed</i>
May 2018 - August 2018	Wooldridge, Nealy (M1 Carver College of Medicine, Medical Student Summer Research Fellowship); <i>Completed</i>
May 2016 - August 2016	Parker, Nicolas (M1 Carver College of Medicine Medical Student Summer Research Fellowship); <i>Completed</i>
May 2015 - August 2015	Tank, Ericka (M1 Carver College of Medicine, Medical Student Summer Research Fellowship); <i>Completed</i>

May 2014 - Tank, Ericka (awarded Iowa Center for Research by
August 2014 Undergraduates Fellowship, ICRU); *Completed*

MS – Non-Thesis Final Exam Committee, Clinical Exercise Physiology, Chair

May 2026 Busch, Imani, *In process*
 Dec 2025 Su, Yurou; *Completed*
 May 2025 Lindaman, Taryn; *Completed*
 May 2025 Wan, Tianyang; *Completed*
 May 2024 Jacobo, Miguel; *Completed*
 May 2024 Andrews, Matthew; *Completed*
 May 2024 Lin, Muyun; *Completed*
 May 2024 Burbridge, Abbey; *Completed*
 Dec 2023 Brookhart, Brian; *Completed*
 May 2023 Fathi, Somayeh, *Completed*
 Dec 2022 Snytsheuvel, Ryan; *Completed*
 May 2022 Hocker, Alex; *Completed*
 May 2021 Aramamudhan, Vikraman; *Completed*
 May 2021 Guerrero, Mariah; *Completed*
 May 2021 Lewis, Bailey; *Completed*
 May 2021 Miller, Jack; *Completed*
 May 2021 Nugent, Kayla; *Completed*
 May 2020 Mathre, Erik; *Completed*
 May 2020 Welch, Alexa; *Completed*
 April 2019 Damon, Lucienne; *Completed*
 May 2019 Perla, Anthonie; *Completed*
 May 2019 Petersen, Courtney; *Completed*
 May 2019 Schneider, Kayla; *Completed*
 May 2019 Taylor, Stephen; *Completed*
 May 2017 Crosser, Jordan; *Completed*
 May 2017 O'Deen, Allison; *Completed*
 April 2017 Vernon, Charles; *Completed*
 April 2016 Aldridge, Anna; *Completed*
 April 2016 Micho, Jared; *Completed*
 April 2016 Pavic, Milosch; *Completed*
 April 2016 Reist, Lauren; *Completed*

MS – Non-Thesis Final Exam Committee, Clinical Exercise Physiology, Member

April 2015 (Greenwalt) Driscoll, Eva; *Completed*
 April 2015 Carano, Anna; *Completed*

April 2015 Morano, Theresa; *Completed*
 April 2015 Segre, Elena; *Completed*
 April 2014 Dubishar, Kaitlyn; *Completed*

MS -Clinical Exercise Physiology Internship, Primary Advisor

Aug-Dec 2025 Su, Yurou; *In Process*
 May-Aug 2025 Busch, Imani; *Completed*
 Jan-May 2025 Lindaman, Taryn; *Completed*
 Aug-Dec 2024 Wan, Tianyang; *Completed*
 Jan- May 2024 Jacobo, Miguel; *Completed*
 Jan- May 2024 Andrews, Matthew; *Completed*
 Jan- May 2024 Lin, Muyun; *Completed*
 Jan- May 2024 Burbridge, Abbey; *Completed*
 Jan – May 2023 Brookhart, Brian, *Completed*
 Aug-Dec 2022 Fathi, Somayeh, *Completed*
 Jan- May 2022 Hockner, Alex; *Completed*
 Jan – May 2022 Snytsheuvell, Ryan; *Completed*
 Aug – Dec 2021 Aravamudhan, Vikraman; *Completed*
 Jan- May 2021 Guerrero, Mariah; *Completed*
 Jan-May 2021 Lewis, Bailey; *Completed*
 Jan-May 2021 Miller, Jack; *Completed*
 Jan-May 2021 Nugent, Kayla; *Completed*
 Summer 2019 Mathre, Erik; *Completed*
 Jan - May 2019 Welch, Alexa; *Completed*
 Aug 2016 - May 2017 Vernon, Charles; *Completed*
 May 2016 - Aug 2016 O'Deen, Allison; *Completed*
 Jan 2016 - May 2016 Micho, Jared; *Completed*
 Jan 2016 - May 2016 Pavic, Milosch; *Completed*
 Aug 2015 - May 2016 Reist, Lauren; *Completed*
 Aug 2014 - Dec 2015 (Greenwalt) Driscoll, Eva; *Completed*
 Jan 2015 - May 2015 Morano, Theresa; *Completed*
 Jan 2015 - May 2015 Segre, Elena; *Completed*
 Aug 2014 - May 2015 Carano, Anna; *Completed*
 Spring 2014 Dubishar, Kaitlyn; *Completed*

MS - Master's Thesis Committee, Chair

Fall 2025- present Kuriawa, Lucas; *In process*
 Fall 2021-Spring 2023 Somers, Emma; *Completed*
 Fall 2019 - Spring 2021 Shatalova, Violetta; *Completed*

Aug 2017 - May 2019	Nuckols, Virginia; <i>Completed</i>
Aug 2015 - Spring 2017	Schneider, Aaron; <i>Completed</i>
Aug 2014 - May 2016	Ajibewa, Tiwaloluwa; <i>Completed</i>
Fall 2013 - Spring 2015	DuBose, Lyndsey; <i>Completed</i>
Jan 2012 - Summer 2014	Harris, Stephen; <i>Completed</i>
Fall 2012 - Spring 2014	Siefers, Kyle; <i>Completed</i>

MS - Master's Thesis Committee, Member

Fall 2024-Spring 2026	Shelly, Jack; <i>In Process</i>
Fall 2024-Spring 2025	Zucker, Anna; <i>Completed</i>
Fall 2024-Spring 2025	Luo, Yunjie; <i>Completed</i>
Fall 2023 - Spring 2024	Tran, Aaron; <i>Completed</i>
Fall 2022 - Spring 2023	Halstead, Kristen; <i>Completed</i>
Fall 2019 - Spring 2021	Dziewior, Jaclyn; <i>Completed</i>
Fall 2017 - Spring 2019	Barnard, Christopher; <i>Completed</i>
Fall 2017 - Spring 2018	Hoover, Mike; <i>Completed</i>
Fall 2012 - Spring 2014	Ferrante, Kim; <i>Completed</i>

PhD - Comprehensive Exam, Member

Spring 2025	Allen, Ryan; <i>Completed</i>
Spring 2025	Mauer, Grace; <i>Completed</i>
Spring 2024	Lee, Ruda; <i>Completed</i>
Spring 2023	Schwartz, Kelsey; <i>Completed</i>
Spring 2023	Dziewior, Jaclyn; <i>Completed</i>
Fall 2021	Hanson, Brady; <i>Completed</i>
Fall 2021	Banks, Nile; <i>Completed</i>
Fall 2021	Rogers, Emily; <i>Completed</i>
Fall 2019	Harris, Matthew; <i>Completed</i>
Spring 2016	Hughes, William; <i>Completed</i>
Spring 2015	Francis, Shelby; <i>Completed</i>
Spring 2015	Metcalf, Kristen; <i>Completed</i>
Spring 2015	Santillan, MD, Mark; <i>Completed</i>
Spring 2012	Ebnet, Tom; <i>Failed</i>

PhD - Dissertation Committee, Chair

Aug 2022- present	Davis, Kristen; <i>In Process</i>
Aug 2020- May 2024	Gimblet, Colin; <i>Completed</i> . <u>Current position</u> : Medical Project Director, National Kidney Foundation
Aug 2021- May 2023	Khataei, Tahsin; <i>Completed</i> . (Co-chair): <u>Current position</u> : Postdoctoral Research Fellow, Dept of

	Anesthesiology and Division of Geriatrics, University of Utah
Aug 2019- May 2023	Nuckols, Virginia; <i>Completed</i> . <u>Current position</u> : Postdoctoral Research Fellow, Dept of Kinesiology and Applied Physiology, University of Delaware
Dec 2016 - May 2020	Luehrs, Rachel; <i>Completed</i> . <u>Current position</u> : Associate Professor with tenure, Dept of Exercise Science, North Central College, Naperville, IL
Aug 2015- Dec 2019	Dubose, Lyndsey; <i>Completed</i> . <u>Current position</u> : Assistant Professor, Dept of Exercise and Health Science, Colorado State University, Fort Collins, CO

PhD - Dissertation Committee, Member

2024-present	West, Kylee; <i>In Process</i>
2024- present	Allen, Ryan, <i>In Process</i>
2024-present	Li, Runhao; <i>In Process (University of Malaysia)</i>
2023-present	Lee, Ruda; <i>In Process</i>
2022-2024	Schwartz, Kelsey; <i>Completed</i>
2022-2024	Dziewior, Jaclyn; <i>Completed</i>
2021-2023	Hanson, Brady; <i>Completed</i>
2021-2023	Banks, Nile; <i>Completed</i>
2021-2023	Rogers, Emily; <i>Completed</i>
2019 - 2021	Harris, Matthew; <i>Completed</i>
2019 - 2021	Oh, Minsuk; <i>Completed</i>
2016 - 2019	Benzo, Roberto; <i>Completed</i>
2016 - 2018	Metcalf, Kristen; <i>Completed</i>
2016 - 2018	Hughes, William; <i>Completed</i>
2015 - 2017	Francis, Shelby; <i>Completed</i>
2014 - 2016	Santillan, Mark; <i>Completed</i>
2011 - 2012	Rarick, Kevin; <i>Completed</i>

PhD – PhD Postdoctoral Research, Primary Mentor

April 2025- present	Pederson, Breanna (PhD, University of South Carolina); <i>In Process</i>
March 2021- July 2024	Armstrong, Matthew (PhD, University of Tasmania); <i>Completed</i> . <u>Current position</u> : Assistant Professor (tenure-track), Department of Exercise Science, Syracuse University
April 2020 - Sept 2021	Roy, Stephen (PhD, University of Texas); <i>Completed</i> . <u>Current position</u> : Postdoctoral Research Associate, University of Southern Illinois School of Medicine
Oct 2015 - Mar 2020	Holwerda, Seth (PhD, University of Missouri);

	<i>Completed. <u>Current position:</u></i> Associate Professor with tenure, Dept of Anesthesiology, Univ of Kansas Medical Center
Aug 2013 - Aug 2015	Lane, Abbi (PhD, University of Illinois); <i>Completed. <u>Current position:</u></i> Associate Professor with tenure, School of Kinesiology, University of Michigan
Dec 2013 - July 2015	Kalil, Graziela (PharmD, University of Iowa); <i>Completed. <u>Current position:</u></i> Assistant Professor, Dept of Internal Medicine, University of Maryland

Research Staff Supervision (full-time), Staff Research Associate

April 2015 – present	Stroud, Amy, MSN, RN; <i>In Process</i>
June 2012 - 2018	Points, Lauren, PhD; <i>Completed; <u>Current position:</u></i> Assistant Professor of Biology, Simpson College (IA)

MD- Supervised Research- Medical Resident or MD Fellow, Primary Mentor or Co-Mentor

2018 - 2020	Holland, Marshall (Neurosurgery); <i>Completed. <u>Current position:</u></i> Assistant Professor of Neurosurgery, Univ of Alabama at Birmingham
2016 - 2017	Betz, Alexandria (OB/Gyn Maternal-Fetal Medicine); <i>Completed. <u>Current:</u></i> Maternal-Fetal Medicine Physician, Maine Health, Portland, ME
2010 - 2011	DiPietro, Amy (Ped Cardiology); <i>Completed. <u>Current position:</u></i> Pediatric Cardiologist, St. Christopher's Hospital for Children, Philadelphia

SCHOLARSHIP

Publications

CLAS * System: *= Senior Author/Major Contribution; **= Secondary Contribution; ***= Equal Contribution; ****= Minor Contribution

Refereed Articles

1. *Davis KG, Armstrong MK, Nuckols VR, Pewowaruk R, Santillan DA, Santillan MK, **Pierce GL** (2026). Higher carotid artery backward pressure and load-dependent stiffness among women with a history of preeclampsia: association with cognitive functions. *J Appl Physiol*, Feb 13. Online ahead of print.
2. **Lee R, Greaney JL, Santillan MK, **Pierce GL**, Stanhewicz AE (2026). Vascular endothelial function is preserved in women with a history of preeclampsia currently receiving antidepressant pharmacotherapy. *Amer J Physiol Heart Circ Physiol*, 330(2): H524-H530.
3. ***Lee R, Santillan MK, Santillan DA, Stroud AK, Nuckols VR, DuBose LE, Holwerda SW, Luehrs RE, Betz AM, Brand D, #**Pierce GL**, #Stanhewicz AE (2025). Pregnant women of advanced maternal age have higher central arterial stiffness than younger pregnant women throughout pregnancy and postpartum. *J Appl Physiol*, 139(6):1420-1430. (#indicates co-senior authors)
4. **Chappell H, Gilliam Z, Madero B, Springer J, Pipoly M, Baller KL, Oehler C, Long JD, **Pierce GL**, Voss MW (2025). Non-exercise equations for cardiorespiratory fitness in older adults using body roundness index and waist circumference. *Exerc Sport Mov*,4(1):e00060.
5. **Nuckols VR, Davis KG, **Pierce GL**, Hoth KF, Santillan MK, Gibbs BB, Whitaker KM (2025). Sleep, physical activity, and pregnancy symptoms: factors associated with cognitive performance in early pregnancy. *Midwifery*, 150:104585

6. *Nuckols VR, Davis KG, Smith M, Carey ML, Bell B, Santillan MK, Santillan DA, **Pierce GL** (2025). Association of physical activity, sedentary time and sleep with maternal vascular function in women with a history of preeclampsia. *J Appl Physiol*, 139(2):384-393.
7. *Gimblet CJ, Donato AJ, Jalal DI, **Pierce GL** (2025). Sex differences in endothelial glycocalyx thickness and the response to glycocalyx-targeted therapy among older adults. *Physiol Rep*, 13(12):e70428.
8. *Nuckols VR, Davis KG, Santillan MK, Santillan DA, **Pierce GL** (2025). Long-term effects of parity on maternal autonomic function. *Autonom Neurosci*, 260:103285. doi: 10.1016/j.autneu.2025.103285. Online ahead of print.
9. ***Nuckols VR, Davis KG, **Pierce GL**, Gibbs B, Whitaker KM (2025). Associations of physical activity and sedentary time with aortic stiffness and autonomic function in early pregnancy (2025). *J Appl Physiol*, 138(3):774-782.
10. ****Borrowman JD, Carr LJ, **Pierce GL**, Story WT, Gibbs BB, Whitaker KM (2025). Postpartum remote health coaching intervention for individuals with a hypertensive disorder of pregnancy: proof-of-concept study. *JMIR Form Res*, Jan 8;9:e656611.
11. *Davis KG, Armstrong MK, Nuckols VR, Smith MN, Pewowaruk R, Gimblet CJ, Santillan DA, Santillan MK, **Pierce GL** (2024). Load-dependent mechanisms contribute to increased aortic stiffness among women with a history of preeclampsia: relation with cardiovascular baroreflex sensitivity. *Am J Physiol Heart Circ Physiol*, 327(6): H1406-H1412.
12. **Jae SY, Lee KH, Kim HJ, Kunutsor SK, **Pierce GL**, Hui SSC, Kang M (2024). Association between cardiorespiratory fitness and trend of age-related rise in arterial stiffness in individuals with and without hypertension or diabetes. *Am J Hypertens*, 38(1):46-54.
13. ***Voss MW, Oehler C, Daniels W, Sodoma M, Madero B, Kent J, Jain S, Jung M, Nuckols VR, DuBose LE, Davis KG, O'Deen A, Hamilton C, Baller K, Springer J, Rivera-Dompenciel A, Pipoly M, Muellerleile M, Nagarajan N, Bjarnason T, Harb N, Lin LC, Magnotta V, Hazeltine E, Long JD, **Pierce GL** (2024). Exercise effects on brain health and learning from minutes to months: The brain EXTEND trial. *Contemp Clin Trial*, Oct:145:107647.
14. *Armstrong MK, Jain S, Nuckols V, Pewowaruk R, Zhang X, DuBose LE, Sodoma M, Madero B, Voss MW, **Pierce GL** (2024). The association of structural vs. load-dependent large artery stiffness mechanisms with cerebrovascular damage and cortical atrophy in humans. *Geroscience*, 46(6):5587-5597.
15. *Gimblet CJ, Ernst JW, Bell B, Bos KD, Stroud AK, Wendt LH, Donato AJ, Jalal DI, **Pierce GL** (2024). Effect of glycocalyx-targeted therapy on vascular function in older adults: a randomized controlled trial. *J Appl Physiol*, 136(6):1488-1495.
16. **Myers M, Gumusoglu S, Brandt D, Stroud A, Hunter SK, Vignato J, Nuckols V, **Pierce GL**, Santillan MK, Santillan DA (2024). A role for adverse childhood experiences and depression in preeclampsia. *J Clin Trans Sci* Jan 12;8(1):e25.
17. *Gimblet CJ, Ernst JW, Bos KD, Stroud AK, Donato AJ, **Pierce GL** (2024). Effect of acute heparin administration on glycocalyx thickness and endothelial function in healthy younger adults. *J Appl Physiol*;136(2):330-336.
18. **Gumusoglu S, Meincke CR, Kiel M, Betz A, Nuckols V, DuBose L, Steidele J, Sweezer E, Santillan D, Stroud AK, **Pierce GL**, Santillan MK (2024). Low indoleamine 2, 3-dioxygenase (IDO) activity is associated with psycho-obstetric risk. *Pregnancy Hypertens*;35:12-18.
19. **Spronck B, Terentes-Printzios D, Avolio AP, Boutouyrie P, Guala A, Jerončić A, Laurent S, Barbosa ECD, Baulmann J, Chen CH, Chirinos JA, Daskalopoulou SS, Hughes AD, Mahmud A, Mayer CC, Park

- JB, **Pierce GL**, Schutte AE, Urbina EM, Wilkinson IB, Segers P, Sharman JE, Tan I, Vlachopoulos C, Weber T, Bianchini E, Bruno RM (2024). Association for Research into Arterial Structure and Physiology (ARTERY), the European Society of Hypertension Working Group on Large Arteries, European Cooperation in Science and Technology Action Vasc AgeNet, North American Artery Society, ARTERY LATAM, Pulse of Asia, and Society for Arterial Stiffness—Germany-Austria-Switzerland (DeGAG). 2024 validation of non-invasive arterial pulse wave velocity measurement devices (2024). *Hypertension*; 81(1):183-192. PMID: PMC10734786.
20. **Dziewior JM, Carr L, **Pierce GL**, Whitaker KM (2024). College students report less physical activity and more sedentary behavior during the COVID-19 pandemic. *J Am Coll Health*. 72(7):2022-2030.
 21. **Gimblet CJ, Kruse NT, Geasland K, Michelson J, Sun M, Mandukhail SR, Wendt LH, Eyck PT, **Pierce GL**, Jalal DI (2024). Effect of resveratrol on endothelial function in patients with CKD and diabetes: A randomized controlled trial. *Clin J Am Soc Nephrol*;19(2):161-168.
 22. *Armstrong MK, Nuckols VR, Gimblet CJ, Holwerda SW, DuBose LE, Luehrs RE, Lane AD, Chirinos JA, Voss MW, **Pierce GL** (2023). Relation of forward and backward traveling pressure waves with subclinical carotid wall remodeling and central pulse pressure. *J Appl Physiol*;135(4):943-949.
 23. *Gimblet CJ, Armstrong MK, Nuckols VR, DuBose LE, Holwerda SW, Luehrs RE, Lane AD, Voss MW, **Pierce GL** (2023). Sex-specific associations of reservoir-excess pressure parameters with age and subclinical vascular remodeling. *J Hypertens* 2023; 41(4):624-631.
 24. *Holwerda SW, Gangwish ME, Luehrs RE, Nuckols VR, Thyfault JP, Miles JM, **Pierce GL** (2023). Concomitantly higher resting arterial blood pressure and transduction of sympathetic neural activity in human obesity without hypertension. *J Hypertens* 41(2):326-335.
 25. *Armstrong MK, Chirinos JA, Kapuku GK, **Pierce GL** (2023). Aortic pressure-only wave separation analysis in adolescents: accuracy and associations with left ventricular mass index. *J Hum Hypertens*.;37(12):1119-11125.
 26. ****Vignato JA, Gumusoglu SB, Davis HA, Scroggins SM, Hamilton WS, Brandt DS, **Pierce GL**, Knosp BA, Santillan DA, Santillan MK (2023). Selective Serotonin Reuptake Inhibitor Use in Pregnancy and Protective Mechanisms in Preeclampsia. *Reprod Sci*.;30(2):701-712.
 27. **** Oh M, Jacobs DR, Pettee Gabriel K, Bao W, **Pierce GL**, Carr LJ, Terry JG, Ding J, Carr JJ, Whitaker, KM (2022). Ten-year change in TV viewing and physical activity are associated with concurrent 10-year changes in pericardial adipose tissue: the CARDIA Study. *J Phys Act Health*. 19(8):531-539.
 28. *Nuckols VR, Stroud AK, Armstrong MK, Brandt DS, Santillan MK, Santillan DA, **Pierce GL** (2022). Postpartum ambulatory and home blood pressure monitoring in women with history of preeclampsia: diagnostic agreement and detection of masked hypertension. *Pregnancy Hypertens* 29:23-29.
 29. ****Oh M, Gabriel KP, Jacobs DR, Bao W, **Pierce GL**, Carr LJ, Terry JG, Ding J, Carr JJ, Whitaker KM. (2022). Cardiorespiratory fitness in adults aged 18 to 34 years and long-term pericardial adipose tissue (from the CARDIA study). *Amer J Cardiol* 172:130-136.
 30. ***DuBose LE, Weng TB, **Pierce GL**, Wharff C, Reist L, Hamilton C, O'Deen A, Dubishar K, Lane-Cordova A, Voss MW (2022). Association between cardiorespiratory fitness and cerebrovascular reactivity to a breath-hold stimulus in older adults: influence of aerobic exercise training. *J Appl Physiol*. 132(6):1468-1479.
 31. ****Oh M, Jacobs DR, Gabriel KP, Bao W, **Pierce GL**, Carr LJ, Ding J, Whitaker KM (2022). Cross-sectional and longitudinal associations of lifestyle behaviors with pericardial adipose tissue: the MESA study. *Med Sci Sports Exer*. 54(6):984-993.

32. ****Kumar R, Sonkar VK, Swamy J, Ahmed A, Sharathkumar AA, **Pierce GL**, Dayal S (2021). DNase 1 protects from increased potential for thrombin generation and venous thrombosis during aging: cross-sectional study in mice and humans. *J Am Heart Assoc.* 11(2):e021188.
33. *Nuckols, V. R., Stroud, A., Huesner, J., Brandt, D., DuBose, L. E., Santillan, D., Santillan, M. K., **Pierce GL** (2021). Twenty-four hour blood pressure variability is associated with lower cognitive function in young women with a history of preeclampsia. *Am J Hypertens* 34(12):1291-1299.
34. *** Fiedorowicz, JG., Dindo, L., Boykin, D. M., Wooldridge, N., Myers, J. L., Ajibewa, T., Stroud, A., Kuwaye, D., Liu, Z., **Pierce, G. L.** (2021) One-day acceptance and commitment therapy (ACT) workshop improves anxiety but not vascular function of inflammation in adults with moderate to high anxiety levels in a randomized controlled trial. *General Hospital Psychiatry.* Nov-Dec;73:64-70.
35. **Reho, J. J., Guo, D.-F., Beyer, A., Wegman-Points, L., **Pierce, G. L.**, Rahmouni, K. (2021). Vascular effects of disrupting endothelial mTORC1 (Mechanistic Target of Rapamycin Complex 1) signaling in obesity. *Am J Physiol Reg Integr Comp Physiol*, 321(2), R228-R237.
36. ***Luehrs, R. E., Moreau, K. L., Wamboldt, F., Aloia, M., Weinberger, H., Make, B., Crapo, J. D., **Pierce, G. L.**, Hoth, K. F. (2021). Cognitive Performance is Lower Among Individuals with Overlap Syndrome than with COPD or Obstructive Sleep Apnea Alone: Role of Carotid Artery Stiffness. *Journal of Applied Physiology*, 131(1), 131-141.
37. ** Santillan, M. K., Becker, R., Calhoun, D. A., Cowley, A. W., Grobe, J. L., Kotchen, T. A., Lackland, D. T., Leslie, K. K., Liang, M., Mattson, D. L., Meyers, K. E., Mitsnefes, M. M., Muntner, P. M., **Pierce, G.L.**, Pollock, J. S., Sigmund, C. D., Thomas, S. J., Urbina, E. M., Kidambi, S. (2021). Team Science - American Heart Association's HTN Strategically Focused Research Network Experience. *Hypertension*, 77(6), 1857-1866.
38. **Luehrs, R. E., Zhang, D., **Pierce, G. L.**, Jacobs, D., Kalhan, R., Whitaker, K. (2021). Cigarette Smoking and Longitudinal Associations with Blood Pressure: The CARDIA Study. *Journal of the American Heart Association*, 10(9), e019566.
39. ****Holwerda, S. W., Carter, J. R., Yang, H., Wang, J., **Pierce, G. L.**, Fadel, P. J. (2021). CORP: Standardizing methodology for assessing spontaneous baroreflex control of muscle sympathetic nerve activity in humans. *American Journal of Physiology. Heart and Circulatory Physiology*, 320(2), H762-H771.
40. ***Dindo, L., Fiedorowicz, J., Boykin, D. M., Wooldridge, N., Myers, J. L., Ajibewa, T., Stroud, A., Kuwaye, D., Liu, Z., **Pierce, G. L.** (2021). A randomized controlled trial for symptoms of anxiety and depression: Effects of a one-day Acceptance and Commitment Training Workshop. *Annals of Clinical Psychiatry* 33(4):258-269.
41. *Holwerda, S. W., Holland, M. T., Green, A. L., Pearson ACS, **Pierce, G. L.** (2021). Dissociation between reduced pain and arterial blood pressure following epidural spinal cord stimulation in patients with chronic pain: A retrospective study. *Clinical Autonomic Research*, 31(2), 303-316.
42. *Nuckols, V. R., Holwerda, S. W., Luehrs, R. E., DuBose, L. E., Stroud, A. K., Brandt, D., Betz, A. M., Fiedorowicz, J. G., Scroggins, S. M., Santillan, D. A., Grobe, J. L., Sigmund, C. D., Santillan, M. K., **Pierce, G. L.** (2020). Beat-to-beat blood pressure variability in the first trimester is associated with the development of preeclampsia in a prospective cohort: relation with aortic stiffness. *Hypertension* 76(6), 1800-1807.
43. *Holwerda, S. W., Kardon, R. H., Hashimoto, R., Full, J. M., Nellis, J. K., DuBose, L. E., Fiedorowicz, J. G., **Pierce, G. L.** (2020). Aortic stiffness is associated with changes in retinal arteriole flow pulsatility mediated by local vasodilation in healthy young/middle-aged adults. *Journal of Applied Physiology*, 129(1), 84-93.

44. ****Barnard, C. R., Peters, M., Sindler, A. L., Farrell, E. T., Baker, K., Palta, M., Stauss, H. M., Dagle, J. M., Segar, J., **Pierce, G. L.**, Eldridge, M. W., Bates, M. L. (2020). Increased aortic stiffness and elevated blood pressure in response to exercise in adult survivors of prematurity. *Physiol Rep*, 8(12), e14462.
45. ****Hoth, K. F., Moreau, K. L., Weinberger, H. D., Holm, K. E., Meschede, K., Crapo, J. D., Make, B. J., Moser, D. J., Kozora, E., Bowler, R. P., **Pierce, G. L.**, Ten Eyck, P., Wamboldt, F. S. (2020). Carotid Artery Stiffness is Associated With Cognitive Performance in Former Smokers With and Without Chronic Obstructive Pulmonary Disease. *Journal of the American Heart Association*, 9(9), e014862.
46. ****Cole, R., Hazeltine, E., Weng, T. B., DuBose, L. E., Schmid, P., Sigurdsson, G., Magnotta, V. A., **Pierce, G. L.**, Voss, M. W. (2020). Cardiorespiratory fitness predicts greater hippocampal volume and rate of episodic associative learning in older adults. *Hippocampus*, 30(2), 143-155.
47. ****Perschbacher, K. J., Deng, G., Sandgren, J., Walsh, L., Santillan, D. A., Devor, E., **Pierce, G. L.**, Fisher, R. A., Santillan, D., Gibson-Corley, K., Sigmund, C. D., Santillan, M. K., Grobe, J. L. (2020). Reduced mRNA Expression of Regulator of G-Protein Signaling-2 (RGS2) in the Placenta is Associated with Preeclampsia and Sufficient to Cause Features of the Disorders in Mice. *Hypertension*, 75(2), 569-579.
48. **Voss MW, Weng TB, Narayana-Kumanan K, Cole RC, Wharff C, Reist L, DuBose LE, Sigurdsson G, Mills JA, Long JD, Magnotta VA, **Pierce GL**. (2020). Acute exercise effects predict training change in cognition and connectivity. *Med Sci Sports Exerc*, 52(1):131-140.
49. ****Nair, A. R., Silva, Jr, S. D., Agbor, L. N., Wu, J., Nakagawa, P., Mukohda, M., Lu, K. T., Sandgren, J. A., **Pierce, G. L.**, Santillan, M. K., Grobe, J. L., Sigmund, C. D. (2019). Endothelial PPAR γ (Peroxisome Proliferator-Activated Receptor- γ) Protects From Angiotensin II-Induced Endothelial Dysfunction in Adult Offspring Born From Pregnancies Complicated by Hypertension. *Hypertension (Dallas, Tex. : 1979)*, 74(1), 173-183.
50. *Holwerda, S. W., Luehrs, R. E., Collins, M. T., Wooldridge, N. A., Stroud, A. K., Fadel, P. J., Abboud, F. M., **Pierce, G. L.** (2019). Elevated muscle sympathetic nerve activity contributes to central artery stiffness in young and middle-age/older adults. *Hypertension*, 73(5), 1025-1035.
51. **Tong, B., Obosi, O., Schmitz, s., Myers, J., **Pierce, G. L.**, Fiedorowicz, J. G. (2018). Bipolar disorder and related mood states are not associated with endothelial function of small arteries in adults without heart disease. *Gen Hospital Psychiatry*, 51, 36-50.
52. ***Luehrs, R. E., Newell, Jr, J. D., Comellas, A. P., Hoffman, E. A., Warner, K., Croghan, A., DuBose, L. E., Nopoulos, P., Magnotta, V., Arndt, S., **#Pierce, G. L.**, **#Hoth, K. F.** (2018). CT-Measured Lung Air-Trapping is Associated with Higher Carotid Artery Stiffness in Individuals with Chronic Obstructive Pulmonary Disease. *Journal of applied physiology (Bethesda, Md. : 1985)*. (# indicates co-senior authors).
53. ****Sandgren, J. A., Deng, G., Linggonegoro, D. W., Scroggins, S. M., Perschbacher, K. J., Nair, A. R., Nishimura, T. E., Zhang, S. Y., Agbor, L. N., Wu, J., Keen, H. L., Naber, M. C., Pearson, N. A., Zimmerman, K. A., Weiss, R. M., Bowdler, N. C., Usachev, Y. M., Santillan, D. A., Potthoff, M. J., **Pierce, G. L.**, Gibson-Corley, K. N., Sigmund, C. D., Santillan, M. K., Grobe, J. L. (2018). Arginine vasopressin infusion is sufficient to model clinical features of preeclampsia in mice. *JCI Insight*, 3(19), 99403.
54. *DuBose, L.E., Boles-Ponto, L., Moser, D. J., Harlynn, E., Reiersen, L., **Pierce, G. L.** (2018). Elevated aortic stiffness is associated with reduced cerebrovascular reactivity but not global cerebrovascular blood flow among older humans. *Hypertension*, 72(2), 476-482.

55. *Holwerda, S. W., Luehrs, R., Gremaud, A., Wooldridge, N., Stroud, A., Fiedorowicz, J. G., Abboud, F. M., **Pierce, G. L.** (2018). Relative burst amplitude of muscle sympathetic nerve activity is an indicator of altered sympathetic outflow in chronic anxiety. *Journal of Neurophysiology*, 120(1), 11-22.
56. *Holwerda, S. W., Holland, M., Reddy, C., **Pierce, G. L.** (2018). Femoral vascular conductance and peroneal muscle sympathetic nerve activity responses to acute epidural spinal cord stimulation in humans. *Experimental Physiology*, 103(6), 905-915.
57. ****Sandgren, J. A., Linggonegoro, D., Zhang, S. Y., Sapouckey, S., Claffin, K. E., Pearson, N. A., Leidinger, M. R., **Pierce, G. L.**, Santillan, M. K., Gibson-Corely, K. N., Sigmund, C. D., Grobe, J. L. (2018). Angiotensin AT1A Receptors Expressed in Vasopressin-Producing Cells of the Supraoptic Nucleus Contribute to the Osmotic Control of Vasopressin. *Am J Physiol Regul Integr Comp Physiol.*, 314(6), R770-R780.
58. ****Scroggins, S. M., Santillan, D. A., Lund, J. M., Sandgren, J. A., Krotz, L. K., Hamilton, W. S., Devor, E., Davis, H. A., **Pierce, G. L.**, Gibson-Corley, K. N., Sigmund, C. D., Grobe, J. L., Santillan, M. K. (2018). Elevated Vasopressin in Pregnant Mice Induces T Helper Subset Alterations Consistent with Human Preeclampsia. *Clinical Science*, 132(3), 419-436.
59. *Lane-Cordova, A. D., Kalil, G. Z., Wagner, C. J., Sindler, A. L., Fiedorowicz, J. G., Ajibewa, T., Haynes, W. G., **Pierce, G. L.** (2018). Hemoglobin A1c and c-reactive protein are independently associated with blunted nocturnal blood pressure dipping in obesity-related prediabetes. *Hypertension Research*, 41(1), 33-38.
60. **Rossman, M. J., Rachel, k. E., M, M. N., Jessica, S.-P. R., **Pierce, G. L.**, Seals, D. R., Donato, A. J. (2017). Endothelial cell senescence with aging in healthy humans: prevention by habitual exercise and relation to vascular endothelial function. *Am J Physiol Heart Circ Physiol.*, 313(5), H890-H895.
61. ***Casey, D. P., Ueda, K., Wegman-Points, L. J., **Pierce, G. L.** (2017). Muscle contraction induced arterial shear stress increases endothelial nitric oxide synthase phosphorylation in humans. *Amer J Physiol Heart Circ Physiol*, 313(4), H854-H859.
62. ***Pierce, G. L.**, Kalil, G. Z., Holwerda, S. W., Ajibewa, T., Persons, J., Moser, D. J., Fiedorowicz, J. G. (2017). Anxiety independently contributes to elevated inflammation in obesity. *Obesity*, 25(2), 286-289.
63. *DuBose, L. E., Voss, M. W., Weng, T. B., Kent, J. D., Dubishar, K. M., Lane-Cordova, A., Sigurdsson, G., Schmid, P., Barlow, P., **Pierce, G. L.** (2017). Carotid β -stiffness index is associated with slower processing speed but not working memory or white matter integrity in healthy middle-aged/older adults. *Journal of Applied Physiology*, 122(4), 868-876.
64. **Parker-Santos, J. R., Strahler, T. R., Vorwald, V. M., **Pierce, G. L.**, Seals, D. R. (2017). Habitual aerobic exercise does not protect against macro- or microvascular endothelial dysfunction in healthy estrogen-deficient postmenopausal women. *Journal of Applied Physiology*, 122(1), 11-19.
65. ***Pierce, G. L.**, Pajaniappan, M., DiPietro, A., Darracott, K., Gaston, K. (2016). Abnormal central pulsatile hemodynamics in adolescents with obesity: higher aortic forward pressure wave amplitude is independently associated with greater left ventricular mass. *Hypertension*, 68(5), 1200-1207.
66. *Lane-Cordova, A. L., Witmer, J., Dubishar, K. M., DuBose, L. E., Chenard, C., Siefers, K. J., Myers, J. E., Points, L. J., **Pierce, G. L.** (2016). High trans but not saturated fat beverage causes an acute reduction in postprandial vascular endothelial function and insulin sensitivity but not large elastic artery stiffness in humans. *Vascular Medicine*, 21(5), 429-436.
67. **Weng, T. B., **Pierce, G. L.**, Darling, W. G., Magnotta, V., Falk, D., Voss, M. W. (2016). The acute effects of aerobic exercise on the functional connectivity of human brain networks. *Brain Plasticity*, 2, 171-190.

68. ***Pierce, G. L.**, Harris, S. A., Seals, D. R., Casey, D. P., Barlow, P., Stauss, H. M. (2016). Estimated aortic stiffness is independently associated with cardiac baroreflex sensitivity in humans: role of aging and habitual endurance exercise. *Journal of Human Hypertension*, *30*, 513-520.
69. ***Munter, P., Becker, R. C., Calhoun, D., Chen, D., Cowley, Jr, A. W., Flynn, J. T., Grobe, J. L., Kidambi, S., Kotchen, T. A., Lackland, D. T., Leslie, K. K., Li, Y., Liang, M., Lloyd, A., Mattson, D. L., Mendizabal, B., Mitsnefes, M., Nair, A., **Pierce, G. L.**, Pollock, J. S., Safford, M. M., Santillan, M. K., Sigmund, C. D., Thomas, S. J., Urbina, E. M. (2016). Introduction to the American Heart Association's hypertension strategically focused research network. *Hypertension*, *67*, 674-680.
70. *Kalil, G. Z., Recober, A., Hoang-Tienor, A., Bridget Zimmerman, M., Haynes, W. G., **Pierce, G. L.** (2016). Higher augmentation index is associated with tension-type headache and migraine in middle-aged/older humans with obesity. *Obesity (Silver Spring, Md.)*, *24*, 865-870.
71. **Weng, T. B., **Pierce, G. L.**, Darling, W. G., Voss, M. W. (2015). Differential effects of acute exercise on distinct aspects of executive function. *Medicine and Science in Sports and Exercise*, *47*, 1460-1469.
72. ****Peña-Silva, R. A., Chalouhi, N., Wegman-Points, L., Ali, M., Mitchell, I., **Pierce, G. L.**, Chu, Y., Ballas, Z. K., Heistad, D., Hasan, D. (2015). Novel role for endogenous hepatocyte growth factor in the pathogenesis of intracranial aneurysms. *Hypertension*, *65*, 587-93.
73. **Sandgren, J. A., Scroggins, S. M., Santillan, D. A., Devor, E. J., Gibson-Corley, K. N., **Pierce, G. L.**, Sigmund, C. D., Santillan, M. K., Grobe, J. L. (2015). Vasopressin: the missing link for preeclampsia? *American journal of physiology. Regulatory, integrative and comparative physiology*, *309*(9), R1062-4.
74. **Chu, Y., Wilson, K. M., Gu, H., Wegman-Points, L., Dooley, S., **Pierce, G. L.**, Cheng, G., Pena-Silva, R., Heistad, D. D., Hasan, D. M. (2015). Myeloperoxidase is increased in human cerebral aneurysms and increases formation and rupture of cerebral aneurysms in mice. *Stroke*, *46*(6), 1651-1656.
75. **Montero, D., **Pierce, G. L.**, Stehouwer, C. D., Padilla, J., Thijssen, D. H. (2015). The impact of age on vascular smooth muscle function in humans. *J Hypertens*, *33*(3), 445-53.
76. **Bharadwaj, J., Harris, R. A., Parikh, S., Zhu, H., Huang, Y., Kotak, I., Seigler, N., **Pierce, G. L.**, Egan, B. M., Dong, Y. (2014). Epithelial sodium channel inhibition by amiloride on blood pressure and cardiovascular disease risk in young prehypertensives. *Journal of Clinical Hypertension*, *16*, 47-53.
77. ****Linder, J. R., Stauss, H. M., Gindes, H., **Pierce, G. L.**, Von Bergen, N. H., Haynes, W. G., Fiedorowicz, J. G. (2014). Finger volume pulse waveforms facilitate reliable assessment of heart rate variability, but not blood pressure variability or baroreflex function. *BMC Cardiovasc Disorders*, *14*(180), 1-8.
78. **Walker, A. E., Kaplan, R. E., **Pierce, G. L.**, Nowman, M., Seals, D. R. (2014). Prevention of age-related endothelial dysfunction by habitual aerobic exercise in healthy humans: possible role of nuclear factor κ B. *Clin Sci*, *127*, 645-54.
79. ***Pierce, G. L.**, Casey, D. P., Fiedorowicz, J. G., Seals, D. R., Curry, T. B., Barnes, J. N., Wilson, D., Stauss, H. M. (2013). Aortic pulse wave velocity and reflecting distance estimation from peripheral waveforms in humans: detection of age- and exercise training-related differences. *Am J Physiol Heart Circ Physiol*, *305*, H135-142.
80. **Chalouhi, N., Points, L., **Pierce, G. L.**, Ballas, Z., Jabbour, P., Hasan, D. (2013). Localized increase of chemokines in the lumen of human cerebral aneurysms. *Stroke*, *44*, 2594-7.
81. **Devan, A. E., Eskurza, I., **Pierce, G. L.**, Walker, A. E., Kaplon, K. L., Seals, D. R. (2013). Regular aerobic exercise protects against impaired fasting glucose-associated vascular endothelial dysfunction with aging. *Clin Sci*, *124*, 325-331.

82. **DeVan, A. E., **Pierce, G. L.**, Brooks, F. A., Seals, D. R. (2013). The dependence of FMD% on baseline diameter: a problem solved by allometric scaling. *Clin Sci*, 125, 16-18.
83. ***Pierce, G. L.**, Zhu, H., Darracott, K., Edet, I., Bhagatwala, J., Huang, Y., Dong, Y. (2013). Arterial stiffness and pulse pressure amplification in overweight/obese African-American adolescents: relation with higher systolic and pulse pressure. *Am J Hypertens*, 26(1), 20-26.
84. ***Pierce, G. L.**, Jablonski, K. L., Walker, A. E., Seibert, S. M., Black, S. M., Shruti, S., Seals, D. R. (2012). Tetrahydrobiopterin supplementation enhances carotid artery compliance in healthy older men: a pilot study. *Am J Hypertens*, 25, 1050-1054.
85. ****LaRocca, T. J., Henson, G. D., Thorburn, A., Sindler, A. L., **Pierce, G. L.**, Seals, D. R. (2012). Translational evidence that impaired autophagy contributes to arterial ageing. *J Physiol*, 590, 3305-3316.
86. **Christou, D. D., **Pierce, G. L.**, Walker, A. E., Hwang, M. H., Yoo, J. K., Luttrell, M., Meade, T., English, M., Seals, D. R. (2012). Vascular smooth muscle responsiveness to nitric oxide is reduced in healthy adults with increased adiposity. *Am J Physiol Heart Circ Physiol*, 303, H743-50.
87. **Jablonski, K. L., Chonchol, M., **Pierce, G. L.**, Walker, A. E., Seals, D. R. (2011). 25-hydroxyvitamin D deficiency is associated with inflammation-linked vascular endothelial dysfunction in middle-aged and older adults. *Hypertension*, 575, 63-69.
88. ***Pierce, G. L.**, Donato, A. J., LaRocca, T. J., Eskurza, I., Silver, A. E., Seals, D. R. (2011). Habitually exercising older men do not demonstrate age-associated vascular endothelial oxidative stress. *Aging Cell*, 10, 1032-1037.
89. **Gano, L. G., Donato, A. J., **Pierce, G. L.**, Hamza, M., Magerko, K. A., Roeca, C., Seals, D. R. (2011). Increased pro-inflammatory and oxidant gene expression in older adults: amelioration with habitual exercise. *Physiol Genomics*, 43, 895-902.
90. ***Pierce, G. L.**, Eskurza, I., Walker, A. E., Fay, T. N., Seals, D. R. (2011). Sex-specific effects of habitual aerobic exercise on brachial artery flow-mediated dilation in middle-aged and older adults. *Clinical Science*, 120, 13-23.
91. ****Dong, Y., Stallmann-Jorgensen, I. S., Pollock, N. K., Harris, R. A., Keeton, D., Huang, Y., Li, K., Bassali, R., Guo, D., Petty, K., Thomas, J., **Pierce, G. L.**, White, J., Holick, M., Zhu, H. (2010). A 16-week randomized clinical trial of 2,000 IU daily vitamin D3 supplementation in black adolescents: 25-hydroxyvitamin D, body mass index, and arterial stiffness. *J Clin Endo Metab*, 95, 4584-4591.
92. ***LaRocca, T. J., Seals, D. R., **Pierce, G. L.** (2010). Leukocyte telomere length is preserved with ageing in endurance exercise-trained adults and related to maximal aerobic capacity. *Mech Ageing Develop*, 131, 165-167.
93. **Walker, A. E., Seibert, S. M., Donato, A. J., **Pierce, G. L.**, Seals, D. R. (2010). Peripheral vascular endothelial function is related to white blood cell count and myeloperoxidase among healthy middle-aged and older adults. *Hypertension*, 55, 363-369.
94. **Denardo, S. J., Nandyala, R., Freeman, G. L., **Pierce, G. L.**, Nichols, W. W. (2010). Pulse wave analysis of the aortic pressure waveform in severe left ventricular systolic dysfunction. *Circulation. Heart failure*, 3(1), 149-56.
95. **Jablonski, K. L., Gates, P. E., **Pierce, G. L.**, Seals, D. R. (2009). Low dietary sodium intake is associated with enhanced vascular endothelial function in middle-aged and older adults with elevated systolic blood pressure. *Therapeutic advances in cardiovascular disease*, 3(5), 347-56.

96. ***Pierce, G. L.**, Lesniewski, L. A., Lawson, B. R., Beske, S. D., Seals, D. R. (2009). Nuclear factor- κ B activation contributes to vascular endothelial dysfunction via oxidative stress in overweight/obese middle-aged and older humans. *Circulation*, 119(9), 1284-92.
97. **Walker, A. E., Eskurza, I., **Pierce, G. L.**, Gates, P. E., Seals, D. R. (2009). Modulation of vascular endothelial function by low-density lipoprotein cholesterol with aging: influence of habitual exercise. *American journal of hypertension*, 22(3), 250-6.
98. **Donato, A. J., Eskurza, I., Jablonski, K. L., Gano, L. B., **Pierce, G. L.**, Seals, D. R. (2008). Cytochrome P-450 2C9 signaling does not contribute to age-associated vascular endothelial dysfunction in humans. *Journal of applied physiology (Bethesda, Md. : 1985)*, 105(4), 1359-63.
99. ***Casey, D. P., Braith, R. W., **Pierce, G. L.** (2008). Changes in central artery blood pressure and wave reflection during a cold pressor test in young adults. *European journal of applied physiology*, 103(5), 539-43.
100. ***Pierce, G. L.**, Beske, S. D., Lawson, B. R., Southall, K. L., Benay, F. J., Donato, A. J., Seals, D. R. (2008). Weight loss alone improves conduit and resistance artery endothelial function in young and older overweight/obese adults. *Hypertension*, 52(1), 72-9.
101. ***Pierce, G. L.**, Larocca, T. J. (2008). Reduced vascular tetrahydrobiopterin (BH4) and endothelial function with ageing: is it time for a chronic BH4 supplementation trial in middle-aged and older adults? *The Journal of physiology*, 586(11), 2673-4.
102. ***Pierce, G. L.**, Schofield, R. S., Casey, D. P., Hamlin, S. A., Hill, J. A., Braith, R. W. (2008). Effects of exercise training on forearm and calf vasodilation and proinflammatory markers in recent heart transplant recipients: a pilot study. *Eur J Cardiovasc Prev Rehab*, 15(1), 10-8.
103. *Braith, R. W., Schofield, R. S., Hill, J. A., Casey, D. P., **Pierce, G. L.** (2008). Exercise training attenuates progressive decline in brachial artery reactivity in heart transplant recipients. *J of Heart Lung Transplant*, 27(1), 52-9.
104. ***Pierce, G. L.**, Schofield, R. S., Nichols, W. W., Hill, J. A., Braith, R. W. (2007). Role of heart failure etiology on arterial wave reflection in heart transplant recipients: relation with C-reactive protein. *Journal of hypertension*, 25(11), 2273-9.
105. ***Casey, D. P., **Pierce, G. L.**, Howe, K. S., Mering, M. C., Braith, R. W. (2007). Effect of resistance training on arterial wave reflection and brachial artery reactivity in normotensive postmenopausal women. *Eur J of App Physiol*, 100(4), 403-8.
106. **Donato, A. J., Eskurza, I., Silver, A. E., Levy, A. S., **Pierce, G. L.**, Gates, P. E., Seals, D. R. (2007). Direct evidence of endothelial oxidative stress with aging in humans: relation to impaired endothelium-dependent dilation and upregulation of nuclear factor- κ B. *Circulation Research*, 100(11), 1659-66.
107. ***Schofield, R. S., **Pierce, G. L.**, Nichols, W. W., Klodell, C. T., Aranda, Jr, J. M., Pauly, D. F., Hill, J. A., Braith, R. W. (2007). Arterial-wave reflections are increased in heart failure patients with a left-ventricular assist device. *American Journal of Hypertension*, 20(6), 622-8.
108. **Haller, M. J., **Pierce, G. L.**, Braith, R. W., Silverstein, J. H. (2006). Serum superoxide dismutase activity and nitric oxide do not correlate with arterial stiffness in children with type 1 diabetes mellitus. *Journal of pediatric endocrinology & metabolism : JPEM*, 19(3), 267-9.
109. **Braith, R. W., Magyari, P. M., **Pierce, G. L.**, Edwards, D. G., Hill, J. A., White, L. J., Aranda, Jr, J. M. (2005). Effect of resistance exercise on skeletal muscle myopathy in heart transplant recipients. *American Journal of Cardiology*, 95(10), 1192-8.

110. **Haller, M. J., Samyn, M., Nichols, W. W., Brusko, T., Wasserfall, C., Schwartz, R. F., Atkinson, M., Shuster, J. J., **Pierce, G. L.**, Silverstein, J. H. (2004). Radial artery tonometry demonstrates arterial stiffness in children with type 1 diabetes. *Diabetes Care*, 27(12), 2911-7.
111. ****Edwards, D. G., Schofield, R. S., Lennon, S. L., **Pierce, G. L.**, Nichols, W. W., Braith, R. W. (2004). Effect of exercise training on endothelial function in men with coronary artery disease. *The American journal of cardiology*, 93(5), 617-20.
112. ***Pierce, G. L.**, Seferlis, C., Kirshenbaum, J., Hartley, L. H. (2000). Lack of association of exercise testing with coronary stent closure. *The American journal of cardiology*, 86(11), 1259-61, A6.
113. **Bader, D. S., McInnis, K. J., Maguire, T. E., **Pierce, G. L.**, Balady, G. J. (2000). Accuracy of a pretest questionnaire in exercise test protocol selection. *The American journal of cardiology*, 85(6), 767-70, A8-9.
114. **McInnis, K. J., Bader, D. S., **Pierce, G. L.**, Balady, G. J. (1999). Comparison of cardiopulmonary responses in obese women using ramp versus step treadmill protocols. *The American journal of cardiology*, 83(2), 289-91, A7.
115. ****Doern, G. V., Brueggemann, A. B., **Pierce, G.** (1997). Assessment of the oxacillin disk screening test for determining penicillin resistance in *Streptococcus pneumoniae*. *European journal of clinical microbiology & infectious diseases : official publication of the European Society of Clinical Microbiology*, 16(4), 311-4.
116. ****Doern, G. V., Brueggemann, A. B., **Pierce, G.**, Holley, Jr, H. P., Rauch, A. (1997). Antibiotic resistance among clinical isolates of *Haemophilus influenzae* in the United States in 1994 and 1995 and detection of beta-lactamase-positive strains resistant to amoxicillin-clavulanate: results of a national multicenter surveillance study. *Antimicrobial agents and chemotherapy*, 41(2), 292-7.
117. ****Doern, G. V., Brueggemann, A. B., **Pierce, G.**, Hogan, T., Holley, Jr, H. P., Rauch, A. (1996). Prevalence of antimicrobial resistance among 723 outpatient clinical isolates of *Moraxella catarrhalis* in the United States in 1994 and 1995: results of a 30-center national surveillance study. *Antimicrobial agents and chemotherapy*, 40(12), 2884-6.
118. ****Doern, G. V., **Pierce, G.**, Brueggemann, A. B. (1996). In vitro activity of sanfetrinem (GV104326), a new trinem antimicrobial agent, versus *Streptococcus pneumoniae*, *Haemophilus influenzae*, and *Moraxella catarrhalis*. *Diagnostic microbiology and infectious disease*, 26(1), 39-42.

Invited Reviews (peer-reviewed)

1. **Wakeham D, **Pierce GL**, Heffernan KS (2025). Effect of acute resistance exercise and resistance exercise training on central pulsatile hemodynamics and large artery stiffness: part I. *Pulse*, 13(1):31-44.
2. **Wakeham D, **Pierce GL**, Heffernan KS (2025). Effect of acute resistance exercise and resistance exercise training on central pulsatile hemodynamics and large artery stiffness: part II. *Pulse*, 13(1):45-61
3. ***Pierce G.L.** (2024). De-stiffening the aged aorta with regular aerobic exercise in humans: fact or fallacy? *Pulse*, 13(1):22-30.
4. ***Pierce G.L.**, Coutinho T, DuBose LE, Donato AJ. (2022). Is it good to have a stiff aorta with aging? Causes and consequences. *Physiology*, 37(3);154-173.
5. ***Stanhewicz AE, Nuckols VR, **Pierce GL** (2021). Maternal microvascular dysfunction during preeclamptic pregnancy. *Clin Sci (London)*, 135(9):1083-1101.

4. ***Pierce, G. L.** (2017). Aortic stiffness in aging and hypertension: prevention and treatment with habitual aerobic exercise. *Current Hypertension Reports*, 19;11:90.
5. ***Pierce, G. L.** (2017). Recent advances: mechanisms and subclinical consequences of aortic Stiffness. *Hypertension*, 70:848-853.
6. **Seals, D. R., Walker, A. E., **Pierce, G. L.**, Lesniewski, L. A. (2009). Habitual exercise and vascular ageing. *The Journal of Physiology*, 587(Pt 23):5541-5549.

Invited Editorials

1. *Gimblet CJ, **Pierce GL** (2026). The endothelial glycocalyx response to Western diet: when structure improves but function falters. *Am J Physiol Heart Circ Physiol*, 330(1): H73-H74.
2. ***Pierce GL.** (2025) Tracking de-stiffening interventions of the aorta: can wearables and artificial intelligence-derived vascular age biomarkers help? *Pulse*, 13(1)103-104.
3. ***Pierce, G. L.**, Roy, S. J., Gimblet, C. J. (2021). The gut-arterial stiffness axis: Is TMAO a novel target to prevent age-related aortic stiffening? *Hypertension*, 78(2): 512-515.
4. ***Pierce, G. L.** (2018). Initiating lifelong aerobic exercise 4-5 days/week before or near age 50 years: is this the "holy grail" of preventing age-related central artery stiffness? *J Physiol*, 596(14):2635-2636.
5. ***Franklin, S. S., **Pierce, G. L.** (2014). Cardiorespiratory fitness and the attenuation of age-related rise in blood pressure: an important role for effective primordial prevention. *J Amer Coll Cardiol*, 64(12):1254-56.
6. ***Pierce, G. L.** (2013). Targeting vascular endothelial insulin resistance in type 2 diabetes mellitus: Is protein kinase C β the 'bullseye' for reducing vascular risk in diabetes? *Circulation*, 127:16-18.
7. ***Pierce, G. L.** (2013). Oral BH₄: novel remedy for age-related skin microvascular dysfunction during hyperthermia or fool's elixir? *J Appl Physiol*, 115:951-3.

Commentary Articles (non-refereed)

1. *Holwerda, S. W., Fadel, P. J., Abboud, F. M., **Pierce, G. L.** (2019). *Response by Holwerda et al to Letter Regarding Article "Elevated Muscle Sympathetic Nerve Activity Contributes to Central Artery Stiffness in Young and Middle-Age/Older Adults"*. *Hypertension*, 2(74), pp. e33. *Hypertension*.
2. ***Pierce GL**, Siefers K, Wegman-Points L (2014). Comment on Goldfine et al. Targeting inflammation using salsalate in patients with type 2 diabetes: effects on flow-mediated dilation (TINSAL-FMD). *Diabetes Care*, 37(5):e110-1.
3. ***Pierce, G. L.**, Donato, A. J. (2009). Will standardization of brachial artery shear stimulus make FMD ready for clinical "prime-time"? *Journal of Applied Physiology*, 107(4), 1365; author reply 1366.
4. **Seals, D. R., Donato, A. J., **Pierce, G. L.**, Walker, A. E. (2007). Commentary on Viewpoint Human experimentation: no accurate, quantitative data? *Journal of Applied Physiology*, 102(3), 1294.

Book Chapter

1. ***Pierce GL**, Heffernan KS, Davy KP (2022). "Effect of Exercise Training and Weight Loss on Arterial Stiffness and Pulsatile Hemodynamics." Academic Press (1st ed) In: *Arterial Stiffness and Pulsatile Hemodynamics in Health and Disease*. Julio A. Chirinos, PhD (Editor).

Abstracts (from the past 3 years only, out of a total >150)

1. ***Lee R, Santillan MK, Santillan DA, Stroud AK, Nuckols VR, DuBose LE, Stanhewicz AE, **Pierce GL**. Pregnant women of advanced maternal age have higher central artery stiffness than younger pregnant women. 2024 American Heart Association Hypertension Scientific Sessions.
2. **Rogers J, Luttrell M, Fagenbaum R, **Pierce GL**. Evaluating an undergraduate human physiology curriculum using the physiology professional skills curriculum mapping tool (PS-MAP): A case report. 2024 American Physiology Summit.
3. *Davis KG, Nuckols VR, Armstrong MK, Gimblet CJ, Smith MN, Hakes HA, Santillan DA, Santillan MK, **Pierce GL**. Load-dependent arterial stiffness mechanisms are responsible for increased large artery stiffness observed among women with a history of preeclampsia. 2024 American Physiology Society Summit.
4. *Somers EM, Fietsam AC, Thenuwara S, Stroud A, Rudroff T, **Pierce GL**. Individuals with Post-COVID conditions exhibit delayed vasodilatory response following brachial artery occlusion but normal endothelial function and arterial stiffness. 2024 American Physiology Society Summit.
5. ***Lee R, Greaney JL, Brustkern KM, **Pierce GL**, Santillan MK, Stanhewicz AE. Microvascular endothelium-dependent dilation is preserved in women with a history of preeclampsia currently treated with antidepressant therapy. 2024 American Physiology Summit.
6. *Armstrong MK, Jain S, Nuckols VR, Gimblet CJ, DuBose LE, Voss MW, **Pierce GL**. Central artery pulsatile hemodynamics are associated with cerebral total, periventricular, and deep white matter lesions: role of reservoir-excess pressure components. Hypertension 2023 (poster presentation at 2023 American Heart Association Hypertension Sessions Meeting).
7. *Gimblet CJ, Ernst JW, Holwerda SW, Kardon RH, Hashimoto R, DuBose LE, Fiedorowicz JG, **Pierce GL**. Greater 24-hour blood pressure variability is associated with higher retinal microvascular resistance and smaller lumen diameter in healthy normotensive adults. Hypertension 2023 (oral presentation at 2023 American Heart Association Hypertension Sessions Meeting).
8. **Gimblet CJ, Kruse NT, Geasland K, Mickelson J, Sun M, Rehman S, Wendt LH, Ten-Eyck P, Ernst JW, **Pierce GL**, Jalal DI. Resveratrol supplementation improves endothelial function in chronic kidney disease (poster presentation at the 2023 Amer Physiology Society Summit Meeting).
9. Nuckols VR, Magnotta V, Hoth KF, Santillan MK, **Pierce GL**. Associations between aortic stiffness, cerebral artery resistance and white matter integrity in women with a history of preeclampsia (poster presentation at the 2023 Amer Physiology Society Summit Meeting).
10. *Ernst JW, Gimblet CJ, Nuckols VR, Holwerda SW, Stroud AK, DuBose LE, Wooldridge N, Ajibewa T, Fiedorowicz JG, **Pierce GL**. Higher levels of vigorous physical activity are associated with enhanced nocturnal blood pressure dipping (poster presentation at the 2023 American Physiology Society Summit Meeting).
11. *Nuckols VR, Guerrero M, Stroud AK, Santillan MK, **Pierce GL**. Association between postpartum sleep characteristics and twenty-four-hour blood pressure patterns in women with and without a history of preeclampsia. Hypertension 2022 563(Supp 1):P098. (poster presentation at 2022 American Heart Association Hypertension Sessions.)
12. *Nuckols VR, Stroud AK, Brandt DS, Santillan DA, Santillan MK, **Pierce GL** (2022). Effect of parity on baroreflex sensitivity and blood pressure variability in sequential pregnancies and postpartum. FASEB J. (Presented at 2022 Experimental Biology Meeting as poster presentation.)

13. *Gimblet C, Armstrong MK, Nuckols VR, Stroud AK, Guerrero M, Pierce GL (2022). Aortic stiffness is negatively associated with microvascular glycocalyx thickness and microvascular perfusion among older adults: role of carotid pressure pulsatility. FASEB J. (Presented at 2022 Experimental Biology Meeting as oral presentation.)
14. *Armstrong MK, Chirinos JA, Kapuku GK, Pierce GL (2022). Pressure only wave separation pulsatile hemodynamics in adolescents: accuracy and associations with left ventricular mass index. FASEB J. (Presented at 2022 Experimental Biology Meeting as poster presentation.)
15. *Holwerda SW, Gangwish ME, Luehrs RE, Nuckols VR, Pierce GL (2022). Obesity-related higher blood pressure is associated with augmented transduction of spontaneous muscle sympathetic nerve activity. FASEB J. (Presented at 2022 Experimental Biology Meeting as poster presentation.)

Podcasts

1. Pierce, G. L., Alexander, L., Kregel, K. C. (2013). *Oral sapropterin, aging, and skin blood flow*. Journal of Applied Physiology. <http://japppodbean.com/2013/07/08/oral-sapropterin-aging-and-skin-blood-flow/>.

Inventions and Patents

1. Pierce, Gary L, Holland, Marshall, Holwerda, Seth W. UIRF 2018-039, "Treatment Using Spinal Cord Stimulation".

GRANTS AND CONTRACTS

Current extramural funding

Dec 2023- Nov 2027 **Adverse Childhood Experiences, Sleep Disruption, and Mechanistic Links to Vascular Dysfunction in Young Adulthood.** R01 HL167788
Funded by NIH/NHLBI. Award amount: (\$3,719,390). Percent effort: 10%.
Investigator/s: Nathaniel Jenkins (Principal Investigator). **Gary L Pierce (Co-Investigator).**

Completed extramural funding

Apr 2020-Jun 2025 **Sympathetic regulation of large artery stiffness in humans with age-related isolated systolic hypertension.** R01 AG063790-01
Funded by NIH/NIA. Award amount: (\$1,719,248). Percent effort: 20%.
Investigator: Gary L Pierce (Principal investigator).

Jul 2022- Jun 2025 **Cognitive function and brain structure early postpartum in women with preeclampsia.** AHA969732
Funded by American Heart Association. Award amount: (\$300,000)
Percent effort: 20%. **Investigator/s:** Gary L Pierce (Principal Investigator).

Apr 2022-Mar 2025 **Mechanisms of Aspirin Therapy in the Prevention and Treatment of Maternal Vascular Dysfunction Following Preeclampsia.** AHA937990
Funded by the American Heart Association. Award amount: (\$231,000)
Percent effort: 10%. **Investigator/s:** Anna Stanhewicz (Principal Investigator). **Gary L Pierce (Co-Investigator).**

Aug 2017 - Jul 2022 **Exercise to improve hippocampal connectivity and learning in older adults** R01 AG055500
Funded by NIH/NIA. Award amount: (\$3,511,184) Percent effort: 10%.

- Investigator/s: Michelle Voss (Principal Investigator), **Gary L Pierce (Co-Investigator)**.
- Jul 2019 - Jun 2022 ***Inorganic Nitrate, Large Artery Stiffness and Cerebral Blood Flow in Aged Humans 19TPA34910016***
Funded by the American Heart Association. Award amount: (\$300,000) Percent effort: 21%. Investigator/s: **Gary L Pierce (Principal Investigator)**.
- May 2017 - Apr 2022 ***Determinants of altered brain structure and function in smokers with COPD-related lung R01 HL134822***
Funded by NHLBI. Award amount: (\$3,250,544) Percent effort: 10%. Investigator/s: **Gary L Pierce (Co-Investigator)**, Karin Hoth (Principal Investigator).
- Sep 2015 -Sep 2020 ***Peroxide-mediated prothrombotic effects of aging 1R01 AG049784-01A***
Funded by NIH/NHLBI. Award amount: (\$2,226,000) Percent effort: 5%. Investigator/s: Sanjana Dayal (Principal Investigator), **Gary L Pierce (Co-Investigator)**.
- Jul 2018 - Jun 2020 ***Mechanisms of Early and Late Postpartum Hypertension in Women with Preeclampsia 18SCG34350001***
Funded by American Heart Association. Award amount: (\$465,681) Percent effort: 5%. Investigator/s: **Gary L Pierce (Co-Investigator)**, Mark Santillan (Principal Investigator).
- Jul 2014 - Jun 2019 ***Does anxiety cause vascular dysfunction through inflammation and SNS activation? 2 P01 HL014388-41***
Funded by NIH/NHLBI. Award amount: (\$2,427,796) Percent effort: 15%. Investigator/s: Francois Abboud (Principal Investigator), Gary L Pierce (Co-Investigator). In Program Project Grant: "Integrative neurobiology of cardiovascular regulation."
- Apr 2015 - Mar 2019 ***Early vascular dysfunction and elevated copeptin in preeclampsia 15SFRN23760002***
Funded by American Heart Association NCRP Strategically Focused Hypertension Research Network (SFRN). Project award amount: (\$887,488) Percent effort: 25%. Investigator/s: **Gary L Pierce (Principal Investigator)**. Clinical Science Project in Program grant: *Novel Neuroendocrine Mechanisms in Preeclampsia: Vasopressin and Copeptin*, Curt Sigmund (Program Director); Program award amount (\$3,709,200).
- Jul 2013 - Jun 2017 ***Vascular dysfunction in human obesity hypertension: integrative role of sympathetic and renin- angiotensin systems 13SDG143400012***
Funded by American Heart Association National Center- Scientist Development Grant. Award amount: (\$308,000) Percent effort: 25%. Investigator/s: **Gary L Pierce (Principal Investigator)**.
- Aug 2013 - Jul 2015 ***Targeting inflammation to treat cardiovascular aging in humans 1R21 AG043722***
Funded by National Institutes of Health/National Institute on Aging. Award

amount: (\$415,000) Percent effort: 20%. **Investigator/s: Gary L Pierce (Principal Investigator).**

Apr 2015 - Mar 2017 ***Bridging acute and long-term exercise effects on brain function in older adults 1R21 AG048170-01A1***
 Funded by NIH/NIA. Award amount: (\$415,000) Percent effort: 5%.
 Investigator/s: Michelle W Voss (Principal Investigator), **Gary L Pierce (Co-Investigator).**

Internal institutional grant awards funded

Jun 2025-May 2026 ***Effects of Glucagon-Like Peptide-1 (GLP-1) Agonist Treatment on Blood Pressure and Vascular Function. (pilot grant)***
 Pharmacy Practice and Science (PPS) Collaborative Grant Pilot Award Program, University of Iowa College of Pharmacy. Number of months: 12
 Award amount: (\$30,000) Percent effort: Cost share. **Investigator/s: Gary L Pierce (Co-Principal Investigator).** Michael Ernst (Co-Principal Investigator).

May 2024- May 2025 ***Estimation of Vascular Age Using Uncalibrated Non-Invasively Tonometry Acquired Radial Artery Pulse Waveforms (pilot grant)***
 Funded by the University of Iowa Initiative for Artificial Intelligence (IIAI)
 Award amount: (\$12,000). Number of months: 12. Investigator/s: **Gary L Pierce (Co-Principal Investigator)**, Matthew Armstrong (Co-Principal Investigator)

Sep 2018 -Aug 2019 ***Static Lung Hyperinflation and Sympathetic Nerve Activity-Associated Large Artery Stiffness in COPD 5P30 ES005605-28***
 Funded by the UI Environmental Health Sciences Research Center, College of Public Health. Award amount: (\$39,613) Percent effort: 10%.
 Investigator/s **Gary Pierce (Principal Investigator).** Pilot Grant

Apr 2015 - Mar 2017 ***Large elastic artery stiffening, lung structure and function, and aortic calcium (Research Career Development Award)***
 Funded by the UI Environmental Research Health Sciences Center, College of Public Health, University of Iowa. Award amount: (\$30,000)
 Number of Months: 24. Investigator/s: **Gary L Pierce (Principal Investigator).**

Jan 2015 - Jun 2016 ***Molecular mechanisms of endothelial dysfunction and aortic stiffness in obesity (Pilot grant)***
 Funded by the University of Iowa Center for Hypertension Research.
 Award amount: (\$90,000). Investigator/s: **Gary L Pierce (Co-Principal)**, Kamal Rahmouni (Co-Principal).

Jul 2014 - Jun 2015 ***Microvascular and endothelial responses to inhaled endotoxin: potential therapeutic effect of parenteral ascorbic acid (Pilot grant)***
 Funded by the Environmental Health Sciences Research Center. Award amount: (\$39,760) Number of Months: 12. **Investigator/s Gary L Pierce (Principal Investigator).**

Aug 2012- Aug 2014 ***Inflammation inhibition for microvascular and autonomic***

dysfunction in obese adults with prediabetes (Pilot grant)

Funded by Fraternal Order of Eagles Diabetes Research Center (FOEDRC), University of Iowa, Pilot & Feasibility Research Grant. Award amount: (\$100,000) Number of Months: 24. **Investigator/s Gary L Pierce (Principal Investigator).**

Jul 2011 - Jun 2013

Anti-inflammatory therapy to treat vascular aging in humans 5 KL2 RR 24980-5 (KL2 Research Career Development Award)

Funded by the University of Iowa Institute for Clinical and Translational Science (ICTS). Award amount: (\$130,968) Percent effort: 75%. **Investigator/s: Gary L Pierce (Principal Investigator).**

Jun 2013 - Jun 2014

Sparking the plastic brain: Effects of aerobic exercise on brain function (Pilot grant)

Funded by Biological Sciences Funding Program, University of Iowa Office of the Vice President for Research. Award amount: (\$25,000) Number of Months: 12. Investigator/s Michelle W. Voss (Principal Investigator), **Gary L Pierce (Co-Investigator).**

Postdoctoral or predoctoral student fellowships/grants

Jan 2023 - Dec 2024

Determining the effects of glycoylx integrity on endothelial function (Predoctoral Fellowship).

Funded by American Heart Association. Award amount: \$53,688.00. Investigator/s: Colin Gimblet (Co-Principal), **Gary L Pierce (Co-Principal).**

Jan 2019 - Dec 2020

Static Hyperinflation and Sympathetic Nerve Activity-Associated Large Artery Stiffness in COPD (Predoctoral Fellowship).

Funded by American Heart Association. Award amount: \$53,688.00. Investigator/s: Rachel Luehrs (Co-Principal), **Gary L Pierce (Co-Principal).**

Jan 2017 - Dec 2019

Anxiety-mediated impairments in large elastic artery function and the autonomic nervous system (Postdoctoral fellowship) 16POST30980038

Funded by American Heart Association. Award amount: (\$185,142.00) Percent effort: 0. Investigator/s: Seth W Holwerda (Co-Principal), **Gary L Pierce (Co-Principal).**

Oct 2015- Dec 2017

Role of sympathetic nerve activity and baroreflex sensitivity on vascular function in humans with moderate/high state anxiety 5T32 HL007121-3

Funded by Interdisciplinary Cardiovascular Research Fellowship, Department of Internal Medicine. Award amount: (\$44,240.00) Percent effort: 100. Investigator/s; **Seth Holwerda (Investigator), Gary L Pierce (Principal Investigator).**

Aug 2013 -Aug 2015

Mechanisms of microvascular dysfunction in a clinical/translational model of human sepsis 5T32 HL007121-37

Funded by Interdisciplinary Pulmonary Research Fellowship. Award amount: (\$40,664.00) Percent effort: 100. Investigator/s Gary L Pierce (Principal Investigator), Abbi Lane-Cordova (Co-Investigator). \$39,264 (salary) + \$1400 (travel), **Role: Postdoctoral Mentor**

- May 2014 -Aug 2014 ***Molecular mechanisms of visceral adipose-stimulated endothelial cell dysfunction and insulin resistance: protective effects of sodium salicylate and laminar shear stress"*** Undergraduate STRIDE Summer Research Fellowship
Funded by American Physiological Society. Award amount: (\$4,300.00) Percent effort: 100. Investigator/s Gary L Pierce (Principal Investigator), Ramsan Younatham (Collaborator). Undergraduate American Physiological Society STRIDE Summer Research Fellowship for Ramsan Younatham
- Aug 2012 - Jul 2014 ***Mechanisms of high-fat meal-induced vascular endothelial dysfunction in middle- aged/older humans: modulating role of habitual aerobic exercise. 5T32 HL007121-3***
Funded by Interdisciplinary Cardiovascular Research Fellowship, Department of Internal Medicine. Award amount: (\$40,664.00) Percent effort: 100. Investigator/s Jordan Witmer (Co-Investigator), Gary I Pierce (Principal Investigator). \$39,264 (salary) + \$1400 (travel)
Role: Postdoctoral mentor for Jordan Witmer, PhD
- May 2013 - Aug 2013 ***Cellular mechanisms of aortic stiffness and vascular endothelial dysfunction in obese adolescents***
Funded by University of Iowa Center for Research for Undergraduates (ICRU). Award amount: (\$2,000.00) Number of Months: 9. Investigator/s Gary L Pierce (Principal Investigator), Ericka Tank (Co-Investigator). Role: Mentor (ICRU) Award for Ms. Ericka Tank (Undergraduate Student in Health & Human Physiology)
- May 2013 -Aug 2013 ***Cellular mechanisms of aortic stiffness and vascular endothelial dysfunction in obese adolescents. (Summer Undergraduate Research Fellowship)***
Funded by American Physiological Society. Award amount: (\$4,300.00) Percent effort: 100. **Investigator/s: Gary L Pierce (Principal Investigator)**, Ericka Tank (Co-Investigator). Undergraduate Summer Research Fellowship for Ms. Ericka Tank (Undergraduate Student in HHP).
- Jan 2013 - May 2013 ***Effects of salsalate on hyperglycemia induced endothelial cell insulin resistance. (Graduate Research Scholarship)***
Funded by University Iowa Executive Council of Graduate and Professional Students (ECGPS). Award amount: (\$1,000.00). Investigator/s Gary L Pierce (Principal Investigator), Kyle Siefers (Co-Investigator). Role: Mentor for graduate student Kyle Siefers

International travel grants

- October 2024 Travel to present invited lecture at ARTERY 24 International Meeting, Artery Society (Cardiff, UK)
Funded by the University of Iowa Stanley Foundation Support Organization, International Programs. Award amount: (\$1000).
- October 2019 Travel to present research abstract at ARTERY 18 International Meeting,

Artery Society (Budapest, Hungary)
 Funded by the University of Iowa Stanley Foundation Support
 Organization, International Programs. Award amount: (\$1100).

- October 2018 Travel to present research abstract at ARTERY 18 International Meeting,
 Artery Society (Guimaraes, Portugal)
 Funded by the University of Iowa Stanley Foundation Support
 Organization, International Programs. Award amount: (\$800).
- October 2017 Travel to present research abstract at ARTERY 17 International Meeting,
 Artery Society (Pisa, Italy)
 Funded by the University of Iowa Stanley Foundation Support
 Organization, International Programs. Award amount: (\$800).
- October 2016 Travel to present research abstract at ARTERY 16 International Meeting,
 Artery Society (Copenhagen, Denmark)
 Funded by the University of Iowa Stanley Foundation Support
 Organization, International Programs, Award amount: (\$900).
- June 2014 International Travel Award Travel to present an invited lecture at the 2014
 Pulse of Asia Annual Meeting; Also attended the International Society of
 Hypertension Annual Meeting (Athens, Greece)
 Funded by Univ of Iowa Stanley Foundation Support Organization,
 International Programs. Award amount: (\$700).
- October 2012 Travel to present research abstract at ARTERY 12 International Meeting,
 Artery Society (Vienna, Austria)
 Funded by the University of Iowa Stanley Foundation Support
 Organization, International Programs. Award amount: (\$600).

Extramural Grants
Pending

- 2026- 2031 ***Mechanisms of vascular endothelial cell insulin resistance among women after preclampsia.*** 1 R01 HL185488-01.
 NIH/NHLBI. Award amount: (\$3,739,359). Percent effort: 15% academic year; 2.0 summer months
 Investigator: **Gary Pierce (Lead Co-Principal Investigator)**; Anna Stanhewicz (Co-Principal Investigator): Submitted: June 5, 2025 (Impact score 38; Percentile: 19)

Extramural Grants Submitted Recently Not Funded

- 2025-2029 ***Vascular insulin resistance, thromboinflammation, and metabolic dysfunction among women with a history of preeclampsia (Project 2)***
Percent effort: 20%. (Award amount: \$1,200,000). **Investigator: Gary L. Pierce (Co-Principal Investigator)**. Anna Stanhewicz (Co-Principal Investigator). American Heart Association Strategically Focused Research Network In “Cardiovascular Kidney Metabolic Syndrome: Heterogeneity in Women” **Program: Perinatal Causes and Prevention of Future Vascular-Metabolic-Kidney Disease in Women.** (Total award amount: \$4,400,000) Mark Santillan (Center Director). **Not funded.**
- 2025-2028 ***Arterial stiffness, cerebral blood flow and neurocognitive function after preeclampsia.*** 25TPA1474467
American Heart Association. Award Amount: (\$300,000) Percent effort 20%. Investigator: **Gary L Pierce (Principal Investigator).** **Not funded.**

INVITED LECTURES AND CONFERENCE PRESENTATIONS***University/Department - Keynote/Plenary Address***

- 2020 Keynote Invited Lecture, COBRE Center for Cardiovascular Health Annual Symposium, *Central Elastic Artery Stiffness with Aging in Humans: Measurement, Mechanisms and Management.* College of Health Sciences, University of Delaware, Newark, Delaware, February 2020

University/Department – Invited Lecture or Grand Rounds

- 2024 Division of Clinical Pharmacology Grand Rounds, *Central Artery Stiffness with Aging in Humans: Measurement, Mechanisms and Management*, Department of Medicine, Vanderbilt University School of Medicine, Jan 16, 2024 (virtual).
- 2019 Departmental Seminar, *Arterial Stiffness with Aging in Humans: Measurement, Mechanisms and Management*, University of Oregon, Department of Human Physiology, Eugene, Oregon, Sept 2019
- 2016 Division of Pediatric Cardiology Grand Rounds, Department of Pediatrics, Cincinnati Children's Hospital Heart Institute, *Elevated Copeptin and Vascular Dysfunction in Early Pregnancy: Novel Biomarkers for Human Preeclampsia?*, Cincinnati, OH
- 2015 Division of Cardiology Grand Rounds, Department of Medicine, *Habitual aerobic exercise in the prevention of arterial aging: mechanistic insights from translational studies in humans*, University of California at Los Angeles (UCLA), Los Angeles, California
- 2014 Departmental Seminar, *Inflammation inhibition for vascular and autonomic dysfunction in human obesity and prediabetes*, Department of Kinesiology and Nutrition, University of Illinois at Chicago, Chicago, Illinois, United States
- 2010 Basic Science Seminar, *Arterial aging in humans: translation from basic mechanisms to clinical interventions*, Department of Medicine, Medical College of Georgia, Augusta, Georgia
- 2010 Departmental Seminar, *Mechanisms of endothelial dysfunction in human aging and obesity: role of NFκB*, Department of Kinesiology, University of Georgia,

Athens, Georgia

- 2009 Center for Exercise Science Seminar, *Arterial aging in humans: biological factors and cellular mechanisms*, Department of Applied Physiology and Kinesiology, University of Florida, Gainesville, Florida
- 2009 Vascular Biology Center Seminar, *Vascular aging in humans: biological factors and cellular mechanisms*, Vascular Biology Center, School of Medicine, Medical College of Georgia, Augusta, Georgia
- 2009 Georgia Prevention Institute Seminar, *Arterial endothelial dysfunction in human aging and obesity: role of oxidative stress and inflammation*, School of Medicine, Medical College of Georgia, Augusta, Georgia
- 2008 Departmental Seminar, *Vascular aging in humans: modulating effects of biological factors and lifestyle behaviors*, Department of Rehabilitation and Movement Science, University of Vermont, Burlington, Vermont
- 2006 Vascular Biology Symposium, *Endothelium-dependent dilation in heart transplant recipients: effects of exercise training*, Department of Applied Physiology and Kinesiology, University of Florida, Gainesville, Florida
- 2003 Center for Exercise Science Seminar, *Abnormalities in peripheral vasodilation: the new therapeutic target for patients with heart disease*, Department of Applied Physiology and Kinesiology, University of Florida, Gainesville, Florida
- 2009 School of Sport and Exercise Science Seminar, *Arterial aging in humans: modulating effects of biological factors and lifestyle behaviors*, University of Northern Colorado, Greeley, Colorado
- 2008 Division of Cardiology Grand Rounds, *Vascular aging in humans: modulating factors and cellular mechanisms*, Department of Medicine, Emory University School of Medicine, Atlanta, Georgia L

International Conference – Invited Oral Conference Presentation

- 2019 ARTERY 19 Annual Conference, *Update on the 2019 North American Artery Meeting*, Artery Society (Europe), Budapest, Hungary, October 2019.
- 2018 ARTERY 18 Annual Conference, *Update on the 2018 North American Artery Meeting*, Artery Society (Europe), Guimarães, Portugal, October 2018.

International Conference - Invited Lectures

- 2024 ARTERY 24 Annual Conference, *Cerebrovascular Blood Flow, Reactivity and Pulsatility: Association with Aortic Stiffness*, in the Symposium “CardioVascular Haemodynamics and the Brain”, Artery Society, Cardiff, UK, Oct 2024.
- 2023 Pulse of Asia 2023 15th Annual Conference “New Waves for Vascular Health”, *Sympathetic Nervous Regulation of Arterial Stiffness with Aging and Hypertension*, Seoul, S. Korea, July 2023 (Virtual presentation).
- 2020 ARTERY 20 Virtual Conference, *Sympathetic Control of Arterial Stiffness and Central Hemodynamics*, Artery Society, Nancy, France, Oct 2020 (*in-person invitation changed to virtual presentation because of COVID19 pandemic).
- 2018 Dutch-German-Austrian Arterial Stiffness Society (DeGAG) Annual Congress

on Arterial Stiffness, *Sympathetic Regulation of Arterial Stiffness with Aging*, Dresden, Germany, Sept 2018.

- 2014 6th Annual Meeting of Pulse of Asia, *Mechanisms of Vascular Aging in Humans: Role of Habitual Aerobic Exercise*, Athens, Greece, June 2014.
- 2013 20th IAGG World Congress of Gerontology and Geriatrics, *Targeting Inflammation to Treat Vascular Aging in Humans*, in the Symposium "Vascular Aging II: Translational Research to Clinical Application", International Association of Gerontology and Geriatrics (IAGG), Seoul, S. Korea, July 2013.

International Conference – Poster Presentation

- 2017 ARTERY 17 Annual Conference, *Effect of Chronic Inflammation Inhibition with Salsalate on Aortic Stiffness and Vascular Endothelial Function in Older Adults: A Randomized Controlled Study*, Artery Society, Pisa, Italy. Peer-Reviewed, Oct 2017
- 2016 ARTERY 16 Annual Conference, *Carotid artery stiffness is associated with CT-measured lung air-trapping in COPD patients and controls independent of age, blood pressure and smoking history*, Artery Society, Copenhagen, Denmark. Peer-Reviewed/Refereed, Oct 2016.
- 2012 ARTERY 12 Annual Conference, *Validation of aortic pulse wave velocity estimation from brachial artery and finger blood pressure waveforms in humans: Ability to detect age- and exercise training- related differences in effective reflecting distance and aortic pulse wave velocity.*, Artery Society, Vienna, Austria. Peer-Reviewed/Refereed, Oct 2012.
- 2011 ARTERY 11 Annual Conference, *Augmented aortic forward pressure wave amplitude contributes to increased left ventricular mass in overweight adolescents*, Paris, France. Peer-Reviewed/Refereed, Oct 2011.

National Conference - Invited Lecture

- 2022 2022 ACSM World Congress on Basic Science of Exercise and Vascular Health; *Endurance Exercise and Arterial Stiffness with Aging and Hypertension: Mechanisms and Clinical Relevance*, 2022 American College of Sports Medicine Annual Meeting, June 2022, San Diego, CA.
- 2021 2021 ACSM World Congress on Basic Science of Exercise in Regenerative Medicine, *Human Arterial Aging: Mechanisms of Prevention and Treatment with Habitual Aerobic Exercise*, American College of Sports Medicine Annual Meeting, May 2021 (Virtual presentation because of COVID19 pandemic).
- 2020 Kidney Week 2020- ASN Annual Meeting, *Aging, Arterial Stiffness and Hypertension: in Symposium "Extrarenal Mechanisms of Hypertension"*, American Society of Nephrology, Denver, Colorado, Oct 2020 (*changed to virtual presentation because of COVID19 pandemic)
- 2020 *ACSM Basic Science World Congress on Exercise in Regenerative Medicine *Human Arterial Aging: Mechanisms of Prevention and Treatment with Habitual Aerobic Exercise*, American College of Sports Medicine, San Francisco, California, June 2020 (*meeting cancelled because of COVID19 pandemic)
- 2019 American Heart Association, Hypertension Scientific Sessions. Symposium:

Recent Advances in Arterial Stiffness (Co-Chair), New Orleans, Louisiana (September 2019)

- 2017 North American Artery Society 7th Annual Meeting, *Sympathetic Regulation of Arterial Stiffness*, Chicago, Illinois, May 2017.
- 2016 American Heart Association Scientific Sessions, *Novel Neuroendocrine Mechanisms in Preeclampsia: Vasopressin and Copeptin*, New Orleans, Louisiana, Nov 2016.
- 2016 North American Artery 6th Annual Meeting, *Habitual aerobic exercise and vascular endothelial function in human age-related prediabetes*, North American Artery Society, Chicago, IL, June 2016.
- 2016 American Society of Hypertension Annual Meeting, *Elevated copeptin and vascular dysfunction in early pregnancy: novel biomarkers for human preeclampsia*, New York, New York, Nov 2016.
- 2015 26th Annual Vascular Biology and Hypertension Meeting, *Elevated Copeptin and Vascular Dysfunction in Early Pregnancy: Novel Biomarkers for Human Preeclampsia*, University of Alabama at Birmingham, Departments of Medicine and Epidemiology, Birmingham, Alabama.
- 2014 North American Artery Society 4th Annual Meeting, *De-stiffening the aorta with habitual aerobic exercise in aging and hypertension: fact or fallacy?* North American Artery Society, Chicago, Illinois
- 2003 2003 American Association of Cardiovascular and Pulmonary Rehabilitation National Meeting, *Exercise prescription in patients with chronic heart failure*, American Association of Cardiovascular and Pulmonary Rehabilitation, Kansas City, Missouri
- 1999 1999 ACSM Health/Fitness Instructor™ Workshop, *ACSM metabolic calculations*, American College of Sports Medicine, Boston, Massachusetts
- 1998 1998 ACSM Health/Fitness Instructor™ Workshop, *ACSM metabolic calculations*, American College of Sports Medicine, Boston, MA
- 1997 1997 ACSM Health/Fitness Instructor™ Workshop, *ACSM metabolic calculations*, American College of Sports Medicine, Boston, MA

National Conference – Oral Abstract Presentation

- 2015 2015 American Heart Association Council on Hypertension Meeting, *Elevated circulating copeptin in mid-gestation is associated with increased aortic stiffness and vascular endothelial dysfunction in pregnant women at high risk for preeclampsia*, American Heart Association, Washington DC, Sept 2015.
- 2015 5th Annual Meeting of North American Artery Society, *Resting systolic blood pressure and body mass index but not aortic stiffness independently predict systolic blood pressure response to maximal exercise in healthy adults*, North American Artery Society, Chicago, Illinois. Peer-Reviewed/Refereed Presenters/Authors: Lane, Abbi (postdoc), Pierce, Gary L
- 2014 2014 Experimental Biology National Meeting, *Lower soluble RAGE and higher*

- aortic stiffness in african-american adolescents: possible protective effect of higher sRAGE in white youth*, American Physiological Society, Cardiovascular Section, San Diego, California, United States Peer-Reviewed/Refereed
Presenters/Authors: Pierce, Gary. Student Presenters/Authors: Tank, Ericka
- 2009 2009 American Heart Association Scientific Sessions, *Sex-specific effects of habitual aerobic exercise on brachial artery flow-mediated dilation in healthy middle-aged and older adults*, American Heart Association, Orlando, Florida Peer-Reviewed/Refereed
- 2009 American Heart Association Scientific Sessions International Meeting, *2009 Nuclear factor kappaB activation contributes to vascular endothelial dysfunction via reductions in vascular oxidative stress in overweight/obese middle-aged and older humans*, American Heart Association, New Orleans, Louisiana. Peer-Reviewed/Refereed
- 2009 Experimental Biology International Meeting, *Habitual aerobic exercise is associated with reduced vascular endothelial cell oxidative stress, NADPH oxidase and NF- κ B in middle-aged and older humans*, FASEB, New Orleans, Louisiana. Peer-Reviewed/Refereed
- 2008 2008 Experimental Biology International Meeting, *Nuclear factor-kappaB-associated inflammation mediates impaired endothelial function in non-diabetic middle-aged and older overweight/obese men*, FASEB J, San Diego, California. Peer-Reviewed/Refereed
- 2004 2004 American College Sports Medicine National Meeting, *Reproducibility of forearm and calf blood flow to reactive hyperemia in young, healthy subjects*, American College of Sports Medicine, Indianapolis, Indiana. Peer-Reviewed/Refereed
- 2001 2001 American College Sports Medicine Meeting, *Lower exercise oxygen uptake during cycle ergometry in cardiac transplantation patients*, American College of Sports Medicine, Baltimore, Maryland. Peer-Reviewed/Refereed
- 1999 1999 American College Sports Medicine National Meeting, *Absolute peak oxygen uptake is a better indicator of improved exercise capacity in cardiac transplant patients*, American College of Sports Medicine, Seattle, Washington. Peer-Reviewed/Refereed

National Conference – Symposium Chair or Co-Chair

- 2019 2019 American Heart Association Hypertension Scientific Sessions, *Recent Advances: Arterial Stiffness- Clinical Research to Mechanisms*, Recent Advances in Hypertension Symposium, Co-Chair, New Orleans, LA
- 2018 2018 Conference on Integrative Physiology of Exercise, American College of Sports of Medicine, *Recent Advances in Exercise and Arterial Stiffness*, Symposium Chair, San Diego, CA.
- 2017 2017 American Heart Association Council on Hypertension and American Society of Hypertension Joint Scientific Sessions, *Vascular Stiffness*, Concurrent Oral Abstract Session Moderator, San Francisco, CA
- 2015 2015 Experimental Biology Meeting, *Vascular Endothelial Cell Insulin Resistance: The New Target for Reducing Vascular Risk in Diabetes?*,

Featured Topics Symposium, American Physiological Society Cardiovascular Section, Chair, Boston, MA.

- 2013 2013 Experimental Biology Meeting, *The Aging Cardiovascular System: Structural Remodeling in Health and Disease*, Featured Topics Symposium, American Physiological Society Cardiovascular Section, American Physiological Society, Co-Chair, Boston, Massachusetts.

National – Poster as first author presenter. *note- senior author posters listed under abstract section

- 2013 2013 American Heart Association Epidemiology and Prevention/Physical Activity, Nutrition and Metabolism Scientific Sessions, *Higher physical activity is associated with enhanced left ventricular diastolic function and exercise capacity and lower wave reflection in healthy adolescents independent of time in sedentary activities*, American Heart Association, New Orleans, Louisiana Peer-Reviewed/Refereed Presenters/Authors: Pierce, Gary L
- 2013 2013 American Heart Association Epidemiology and Prevention/Physical Activity, Nutrition and Metabolism Scientific Sessions, *Higher physical activity is associated with enhanced left ventricular diastolic function and exercise capacity and lower wave reflection in healthy adolescents independent of time in sedentary activities*, American Heart Association, New Orleans, Louisiana, United States Peer-Reviewed/Refereed Presenters/Authors: Pierce, Gary L
- 2012 2012 Experimental Biology Meeting, *Endothelium-dependent dilation is inversely related to hematocrit among young and older adults*, San Diego, California Peer-Reviewed/Refereed Presenters/Authors: Pierce, Gary L
- 2012 2012 Experimental Biology National Meeting, *Endothelium-dependent dilation is inversely related to hematocrit among young and older adults*, American Physiological Society, San Diego, California, United States Peer-Reviewed/Refereed Presenters/Authors: Pierce, Gary L
- 2011 2011 Experimental Biology International Meeting,, *Higher brachial and central systolic and pulse pressure in overweight/obese black adolescents: relation with aortic stiffness and wave reflection*, FASEB, Washington, DC Peer-Reviewed/Refereed Presenters/Authors: Pierce, Gary
- 2011 2011 American Heart Association Joint Conference-Nutrition, Physical Activity and Metabolism/Cardiovascular Disease Prevention Epidemiology Meeting, *Reduced tetrahydrobiopterin bioactivity contributes to decreased carotid artery compliance with aging in healthy adults,*, American Heart Association, Atlanta, Georgia Peer-Reviewed/Refereed Presenters/Authors: Pierce, Gary L
- 2010 American Heart Association Scientific Sessions, *2010 Higher central artery stiffness and pulse pressure in overweight/obese African-American adolescents*, Chicago, Illinois Peer-Reviewed/Refereed Presenters/Authors: Pierce, Gary L
- 2009 2009 Experimental Biology International Meeting, *Habitual aerobic exercise is associated with reduced vascular endothelial cell oxidative stress, NADPH oxidase and NFkappaB in middle-aged and older humans*, FASEB, New Orleans, Louisiana Peer-Reviewed/Refereed Presenters/Authors: Pierce, Gary
- 2008 2008 Experimental Biology International Meeting, *Nuclear factor kappa B-*

- associated inflammation mediates impaired endothelial function in*, San Diego, California Peer-Reviewed/Refereed Presenters/Authors: Pierce, Gary
- 2008 2008 Experimental Biology Meeting, *Vascular endothelial function is selectively, positively related to leg/hip body fatness in healthy post-menopausal women*, FASEB, San Diego, California Peer-Reviewed/Refereed Presenters/Authors: Pierce, Gary
- 2007 2007 American College Sports Medicine National Meeting, *Arterial wave reflection properties are associated with c-reactive protein and exercise capacity in heart transplant recipients*, American College of Sports Medicine, New Orleans, Louisiana Peer-Reviewed/Refereed Presenters/Authors: Pierce, Gary
- 2007 2007 Experimental Biology Meeting, *Enhanced vascular endothelium-dependent dilation in older men who exercise is associated with markedly lower endothelial oxidative stress*, Washington DC, District of Columbia Peer-Reviewed/Refereed Presenters/Authors: Pierce, Gary L
- 2006 2006 American Heart Association Scientific Sessions, *Effect of aging and habitual endurance exercise on vascular endothelial NF kappa B protein expression and dilation in humans*, American Heart Association, Chicago, Illinois Peer-Reviewed/Refereed Presenters/Authors: Pierce, Gary L
- 2006 2006 American College Sports Medicine Meeting, *Acute effects of cold pressor test on central arterial pressure wave reflection in young, healthy adults*, Denver, Colorado Peer-Reviewed/Refereed Presenters/Authors: Pierce, Gary
- 2005 2005 American Heart Association Scientific Sessions, *Exercise training improves vasodilation of limb resistance vasculature and attenuates inflammation and asymmetric dimethylarginine in heart transplant recipients*, American Heart Association, Dallas, Texas Peer-Reviewed/Refereed Presenters/Authors: Pierce, Gary L
- 2005 2005 American College Sports Medicine Meeting, *Nine months of resistance training does not increase arterial stiffness in postmenopausal women*, Nashville, Tennessee Peer-Reviewed/Refereed Presenters/Authors: Pierce, Gary
- 2004 2004 American Heart Association Scientific Sessions, *Cardiac transplantation does not improve central arterial stiffness in patients with severe heart failure*, American Heart Association, New Orleans, Louisiana Peer-Reviewed/Refereed Presenters/Authors: Pierce, Gary L
- 1999 1999 American College of Cardiology Meeting, *Cardiovascular responses to dobutamine and exercise stress testing in patients taking beta-adrenergic blocking agents*, American College of Cardiology, New Orleans, Louisiana Peer-Reviewed/Refereed Presenters/Authors: Pierce, Gary L

National– Other Oral presentation

- 2000 2000 ACSM Health/Fitness Instructor™ Certification Exam, *Physical work capacity testing*, American College of Sports Medicine, Boston, MA
- 1999 1999 ACSM Health/Fitness Instructor™ Certification Exam, *Physical work*

capacity testing, American College of Sports Medicine, Boston, MA

1999 1999 ACSM Exercise Specialist™ Certification Exam, *ECG arrhythmia identification and emergency action*, American College of Sports Medicine, Boston, MA

1998 1998 ACSM Exercise Specialist™ Certification Exam, *ECG arrhythmia identification and emergency action*, American College of Sports Medicine, Boston, MA

Regional Conference - Invited Lecture

2013 17th Annual Meeting of Iowa Physiological Society, *Targeting inflammation to treat arterial aging: translational physiology*, Iowa Physiological Society, Des Moines, Iowa

2012 2012 Midwest Chapter of the American College of Sports Medicine (MWACSM), *Habitual aerobic exercise in the prevention and treatment of vascular aging*, American College of Sports Medicine, Oregon, Ohio

2006 2006 Rocky Mountain Chapter of American College Sports Medicine Meeting, *Acute and chronic cardiovascular effects of exercise in heart transplant recipients*, Rocky Mountain Chapter of American College Sports Medicine, Estes Park, Colorado

1998 1998 New England Chapter of American College Sports Medicine Meeting, *Clinical exercise testing in cardiac transplantation patients*, New England Chapter of American College Sports Medicine, Providence, Rhode Island

Regional Conference– Oral and Poster Abstract Presentation

1997 1997 New England Chapter of American College Sports Medicine Regional Meeting, *Comparison of ramp vs. graded exercise testing protocols in obese women*, New England Chapter of American College Sports Medicine, Providence, Rhode Island (oral presentation)

2010 2010 Southern Translational and Education Research Conference, *Lower vascular oxidative stress and higher endothelium-dependent dilation in middle-aged and older endurance exercise trained men: relation with extracellular superoxide dismutase activity*, University of Georgia (oral presentation)

2012 16th Annual Meeting of Iowa Physiological Society, *Estimation of effective reflecting distance and aortic pulse wave velocity from peripheral blood pressure waveforms in young and older humans*, Iowa Physiological Society, Des Moines, Iowa, United States Peer-Reviewed/Refereed (poster presentation)

University of Iowa - Invited Lectures

2018 Frontiers in Obesity, Diabetes and Metabolism, *Arterial Stiffness in Aging and Chronic Disease in Humans: Measurement, Mechanisms and Management*, University of Iowa Obesity Research and Education Initiative and Fraternal Order of Eagles Diabetes Research Center

2017 The Human Toxicology Program/Iowa Superfund Basic Research Program, *Arterial Stiffness and Lung Air-Trapping in Chronic Obstructive Lung Disease (COPD)*, Environmental Health Sciences Research Center, College of Public

Health, University of Iowa, Iowa

- 2015 Department of Pharmacology Seminar, *Habitual aerobic exercise in the prevention of arterial aging: translational mechanistic insights from human and animal models*, Department of Pharmacology, Carver College of Medicine, University of Iowa, Iowa City, Iowa
- 2014 The Environmental Health Sciences Research Center, The Human Toxicology Program Seminar, *Inhaled endotoxin, vascular endothelial dysfunction and cardiovascular disease risk in humans: potential therapeutic role of vitamin C*”, University of Iowa College of Public Health, Iowa City, Iowa, United States
- 2014 Diabetes and Obesity Seminar Series, *Sodium salicylates for the prevention of endothelial cell dysfunction in obesity and diabetes: novel role of AMP kinase?*, Fraternal Order of Eagles Diabetes Research Center, University of Iowa, Iowa City, Iowa, United States
- 2013 Diabetes and Obesity Seminar Series, *Inflammation inhibition for vascular and autonomic dysfunction in obese prediabetic humans*, Fraternal Order of Eagles Diabetes Research Center, University of Iowa, Iowa City, Iowa, United States

SERVICE

Profession

- Professional Associations- Elected Officer or Committee Membership
- 2023- pres Association for Chairs of Departments of Physiology (ACDP), Councilor (elected)
- 2019- pres North American Artery Society, Treasurer (elected)
- 2019 - 2022 American Physiological Society Conference Committee, Member
- 2016 - 2019 American Physiological Society Cardiovascular Section Awards Committee, Member
- 2012 - 2015 American Physiological Society Cardiovascular Section Nominating Committee, Member
- 2014 - 2015 American College of Sports Medicine, Certified Clinical Exercise Specialist Subcommittee, Committee on Certification and Registry Boards (CCRB), Member
- 2000 - 2001 New England Chapter of the American College of Sports Medicine, MA State Rep.
- Scientific Journal Editorial Service
- 2024- pres Managing Editor, *Pulse*
- 2024- pres Associate Editor, *Artery Research*
- 2024- pres Editorial Board, *American Journal of Physiology-Heart Circulatory Physiology*
- 2022 - 2023 Editorial Board, *Journal of Applied Physiology*
- 2015 - 2023 Editorial Board, *Clinical Science*
- 2017 - 2023 Editorial Board, *Experimental Physiology*
- 2010 - 2015 Advisory Panel, *Clinical Science*
- Grant Study Section/Review Panel
- 2020 NIH Cardiovascular and Respiratory Sciences (CVRS-J) R15 study section, Reviewer
- 2015 NIH Atherosclerosis Inflammation Cardiovascular Sciences (AICS) study section, Ad Hoc Reviewer
- 2016 University of Utah Center on Aging, Pilot grants, Reviewer
- 2014 American Heart Association Behavioral Science-Clinical 2 Committee, Reviewer
- 2013 University of Delaware, INBRE Career Development Grants, Reviewer

Professional Conference Planning Committee

- 2023 Big Ten Academic Alliance Kinesiology Department Chairs Meeting (2-day), Big Ten Headquarters and Conference Center, Program Chair, Rosemont, IL
- 2025 North American Artery Society, 13th Annual Meeting Program Committee, Co-Chair, Philadelphia, PA (June 27-28, 2025)
- 2024 North American Artery Society, 12th Annual Meeting Program Committee, Co-Chair, Aurora, CO (June 14-15, 2024)
- 2023 North American Artery Society, 11th Annual Meeting Program Committee, Co-Chair, Iowa City, IA (June 16-17, 2023)
- 2021 North American Artery Society, 10th Annual Meeting Program Committee- Virtual Program, Co-Chair (May 21-22, 2021)
- 2020 North American Artery Society, 10th Annual Meeting Program Committee, Co-Chair (*cancelled because of COVID-19 pandemic)
- 2019 North American Artery Society, 9th Annual Meeting Program Committee, Co-Chair, Iowa City, IA (May 17-18, 2019)
- 2018 2018 American College Sports Medicine Integrative Physiology of Exercise Meeting, Scientific Program Committee, Member, San Diego, CA
- 2018 North American Artery Society, 8th Annual Meeting Program Committee, Co-Chair, Chicago, IL (May 15-16, 2018)
- 2017 North American Artery Society, 7th Annual Meeting Program Committee, Co-Chair, Chicago, IL (May 19-20, 2017)
- 2016 North American Artery Society, Program Committee, 6th Annual Scientific Meeting, Co-Chair, Chicago, IL (Sept 8-10, 2016)
- 2015 North American Artery Society, 5th Annual Meeting Program Committee, Co-Chair, Chicago, IL (Sept 11-12, 2015)
- 2014 North American Artery Society, 4th Annual Scientific Meeting, Program Committee, Co-Chair, Chicago, IL (Sept 5-6, 2014)
- 2013 North American Artery Society, 3rd Annual Scientific Meeting Program Committee, Co-Chair, Chicago, IL (Sept 6-7, 2013)

External Reviewer for Promotion

- 2025 External reviewer (2 cases) for promotion to Associate Professor with tenure of faculty at [REDACTED] Reviewer, Promotion and Tenure
- 2025 External reviewer (2 cases) for promotion to Professor of faculty at [REDACTED] University and the University of [REDACTED], Reviewer, Promotion and Tenure
- 2024 External reviewer for promotion to Professor of faculty at Rutgers University, Reviewer, Promotion and Tenure
- 2024 External reviewer for promotion to Associate Professor with tenure of faculty at the University of [REDACTED], Reviewer, Promotion and Tenure
- 2023 External reviewer for promotion to Associate Professor with tenure of faculty at the University of [REDACTED] Reviewer, Promotion and Tenure
- 2023 External reviewer for promotion to Professor of faculty at the University of [REDACTED], Reviewer, Promotion and Tenure
- 2022 External reviewer for promotion to Associate Professor with tenure of faculty at the University of [REDACTED], Reviewer, Promotion and Tenure
- 2021 External reviewer for promotion to Professor of Medicine with tenure of dossier of faculty at [REDACTED] Reviewer, Promotion and Tenure
- 2021 External reviewer for promotion to Associate Professor with tenure of faculty at University of [REDACTED] Reviewer, Promotion and Tenure
- 2019 External reviewer for promotion to Clinical Associate Professor (non-tenure track) of dossier of faculty at [REDACTED] Reviewer, Promotion and Tenure
- 2018 External reviewer for promotion to Associate Professor with tenure of dossier of faculty at University of [REDACTED] Reviewer, Promotion and Tenure
- 2018 External reviewer for promotion and tenure dossier of faculty at [REDACTED] [REDACTED] Reviewer, Promotion and Tenure
- 2018 External reviewer for promotion to Associate Professor with tenure dossier of faculty at [REDACTED]

University of [REDACTED] Reviewer, Promotion and Tenure

Department

2021-22	Annual Faculty review (2 nd year tenure track) committee for Erin Talbert, PhD, Member
2021-22	Annual Faculty review (1st year tenure-track) committee for Nathaniel Jenkins, PhD, Chair
2021	Promotion to Professor of Instruction committee for Dan Matheson JD committee, Member
2021	Promotion to Associate Professor of Instruction committee for Bri Swope MA, Chair
2020 - pres	HHP Social Media Committee, Member
2018 - pres	Director of Graduate Studies, Dept of Health and Human Physiology, Director
2014 - pres	HHP Carl V. Gisolfi Seminar Series committee, Chair
2020	Annual Faculty review (1st Year tenure-track) committee for Anna Stanhewicz, PhD, Chair
2020	Annual Faculty review (2nd Year tenure-track) committee for Kara Whitaker, PhD, Member
2020	Annual Faculty review (2nd Year tenure-track) committee for Thorsten Rudroff, PhD, Member
2020	Annual faculty review (4th year tenure-track) committee for Melissa Bates, PhD, Chair
2020	Post-tenure 5 Year Review Committee for Prof Ben Hunnicutt, PhD, Member
2019	Department Consulting Group P&T committee Prof. Vitor Lira, Chair
2019	Promotion and Tenure Committee for Prof Vitor Lira, Dept of Health and Human Physiology, Chair
2019	Annual Faculty Review (1st Year) for Assistant Professor Thorsten Rudroff, Chair
2019	Annual faculty review (3rd year) for Assistant Professor Melissa Bates, Chair
2018 - 2019	Tenure track faculty search in Human Physiology, Dept of Health & Human Physiology, Chair
2019	Annual Faculty Review (3rd Year reappointment) for Assistant Professor Qian Xiao, Member
2019	Annual Faculty Review (5th Year) for Assistant Professor Vitor Lira, Chair
2017 - 2018	Annual Faculty Review (3rd year reappointment) for Melissa Bates, Assistant Professor, Chair
2017 - 2018	Annual Faculty Review (5th Year) for Assoc Professor Harald Stauss, Associate Professor, Chair
2017 - 2018	Annual Faculty Review for Shawn Flanagan, Associate Faculty of Instruction, Chair
2017 - 2018	Annual Faculty Review for Vitor Lira, Assistant Professor, Member
2018	Promotion and Tenure Committee for Darren Casey, PhD, Dept of Physical Therapy and Rehabilitation Sciences, Carver College of Medicine, Member, Darren Casey, PhD
2017 - 2018	Search Committee for Tenure-Track Faculty Position in Sensorimotor Neuroscience, Chair, Health and Human Physiology
2016 - 2017	Search Committee for Tenure-Track Faculty Position in Exercise Science, Chair
2015 - 2016	HHP Senior Lecturer Promotion Committee for Shawn Flanagan, Member
2013 - 2014	Lecturer annual reviewer for Chris Schwartz, PhD, Reviewer
2013 - 2014	Lecturer annual reviewer for Shawn Flanagan, PhD, Reviewer
2013 - 2014	Search Committee for Tenure-track faculty position in Behavioral Nutrition, Department of Health and Human Physiology (#63166), Member
2013 - 2014	Search Committee for Tenure-track faculty position in Translational Physiology, Department of Health and Human Physiology (#63143), Member
2013 - 2014	Search Committee for Tenure-track faculty position in Clinical Exercise Physiology, Department of Health and Human Physiology (#63166), Chair
2012 - 2013	Chair, Louis E. Alley Annual Memorial Lecture Committee, Department of Health & Human Physiology
2012 - 2013	Lecturer annual reviewer for Shawn Flanagan, Reviewer
2012 - 2013	Search committee for Tenure-track faculty position in Nutrition, Department of Health

- and Human Physiology (#61302), Member
 2011 - 2012 Lecturer annual reviewer for Dr. Clay Peterson, Reviewer
 2011 - 2012 Lecturer annual reviewer for Dr. Shawn Flanagan, Reviewer
 2011 - 2012 Lois E. Alley Memorial Lecture Committee, Member
 2011 - 2012 Search committee for Tenure-track faculty position in Department of Health and Human Physiology and UI Obesity Initiative (#60075), Member

College (College of Liberal Arts and Sciences, CLAS)

- 2023 CLAS Department Consulting Group, Tenure review of Department Executive Officer candidate of the Department of Communications Sciences and Disorders, Chair
 2022- pres CLAS Dean's Advisory Board, Science DEO Rep, Member
 2022- pres CLAS Science Department Executive Officer Committee, Chair
 2013 Human Studies Animal Welfare Workgroup for 650:270/604 Principles of Scholarly Integrity course, Graduate College, Member

University

- 2025- pres Research Council, University of Iowa Office of Vice President for Research, Member
 2025- pres Presidential Committee on Athletics, University of Iowa Office of the President, Chair
 2024- 2025 Associate Provost of Faculty and Strategic Operations Search Committee, Member
 2022- 2026 Health Science Academic Building Planning HHP Stakeholder Committee, Chair
 2021 Recreational Services, Division of Student Life, external program review, Internal focus group member
 2021 - 2025 Presidential Committee on Athletics Committee, University of Iowa, Member
 2020 - 2023 Faculty Senate (CLAS Group III), University of Iowa, Member
 2019 - pres Clinical Research Unit Advisory Committee, Institute for Clinical and Translational Science, University of Iowa Carver College of Medicine, Member
 2018 - 2021 Recreational Services Charter Committee, University of Iowa, Member
 2015 Advocacy for Biomedical Research and Preeclampsia Research on Capitol Hill- Washington, D.C, Attendee, Sponsored by Univ of Iowa Office of the Vice President for Research

Community

- 2018-23 Club West Board Member, Iowa City West High School, Athletics Booster Club
 2019-23 Iowa City Community School District, Athletic Booster Club, Iowa City West rep
 2017 "Science Café" Community Invited Lecture, Univ of Iowa Environmental Health Sciences Research Center/Institute for Clinical and Translational Science, Fairfield, IA

Professional Development Activities

- 2023 Crucial Conversations® for Mastering Dialogue Training Workshop (2-day), University of Iowa
 2023 Summer Institute for Equity in the Academic Experience, Aspen Institute (3-day), University of Iowa
 2021-22 Training/Development Program, 2021 Leadership Workshop and Pre-Workshop Sessions, American Kinesiology Association
 2021-22 BUILD: Beyond the Numbers- Foundations for Diversity, Equity and Inclusion courses

Academic Leadership Training

- 2025-26 Fellow, Leadership Institute for Department Chairs, American Kinesiology Association (AKA), consisting of 1) monthly seminars and workshops, 2) attendance at the 2026 AKA Annual Conference, and 3) monthly meetings with the executive Dean coach
 2024-25 DEO Mentor, Iowa Academic Leadership Academy (IALA) Mentoring Program, Office of the Provost, University of Iowa (served as a mentor for new DEO)

through 1 hour monthly mentoring meetings and coaching)

- 2023 Department Executive Officer (DEO) Leadership Program Training Fellow, Big Ten Academic Alliance (2 ½ day in-person + 4 hours online), Big Ten Headquarters and Conference Center, Rosemont, IL
- 2023 Academic Investigations Training, University of Iowa Office of the Provost and Human Resources; Husch Blackwell LLC Law Firm, Chicago, IL (2-day)
- 2022-2023 Department Executive Officer Leadership Training Program, University of Iowa Office of the Provost (monthly x 1 ½ hours + monthly x 1 hr leadership coaching)
- 2022 Summer “Leading and Influencing as a Department Chair Bootcamp”, Academic Impressions (online 3 hours x 6 weeks + 1 executive coaching session)