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Education

<u>Degree</u>	<u>Major Area of Study</u>	<u>Date</u>	<u>Institution</u>
Ph.D.	Cardiovascular Physiology	2013	Colorado State University Fort Collins, Colorado
M.S.	Cardiovascular Physiology	2009	Colorado State University Fort Collins, Colorado
B.S.E.	Exercise Science	2007	University of Dayton Dayton, Ohio

Professional Experience

<i>Interim Department Chair</i> Department of Health and Sport Science University of Dayton, Dayton, OH.	2019-2020
<i>Associate Professor</i> Department of Health and Sport Science University of Dayton, Dayton, OH.	2019-Present
<i>Assistant Professor</i> Department of Health and Sport Science University of Dayton, Dayton, OH.	2013-2019
<i>Research Fellow</i> Human Cardiovascular Physiology Laboratory Colorado State University, Fort Collins, CO.	2013
<i>Graduate Research Assistant</i> Human Cardiovascular Physiology Laboratory Colorado State University, Fort Collins, CO.	2008 – 2013
<i>Graduate Teaching Assistant</i> Department of Health and Exercise Science Colorado State University, Fort Collins, CO.	2007 – 2010

Honors and Awards

Bro. Gerald O'Neil Inspirational Educator	School of Education and Health Sciences University of Dayton	2021
Scholarship Award, Tenured	School of Education and Health Sciences University of Dayton	2021
Women of UD Honoree	Women's Center University of Dayton	2021
Research Recognition Award	Teaching Section American Physiological Society	2020
Alumni Award for Faculty Teaching	University of Dayton	2018
Miryam Award (to F3USE)	Center for Social Concern University of Dayton	2018
ADI Macknight Early Career Innovative Educator	American Physiological Society	2018
Faculty Excellence Award	Southwestern Ohio Council for Higher Education	2017
Junior Scholarship Award	School of Education and Health Sciences University of Dayton	2016
Service Award, Tenured or Tenure-Track	School of Education and Health Sciences University of Dayton	2016
Teaching Award, Tenured or Tenure-Track	School of Education and Health Sciences University of Dayton	2015
NCARnation - Best Poster	American Physiological Society	2014
Gabor Kaley Professional Opportunity Award	American Physiological Society	2013
Robert W. Gotshall Graduate Scholarship Award	Department of Health and Exercise Science Colorado State University	2011
1 st place Abstract Award	Optimizing Healthy Aging Colloquium Colorado State University	2009
Predoctoral Recognition Award	Environmental and Exercise Physiology Section American Physiological Society	2009
<i>Magna cum laude</i> graduation honors	University of Dayton	2007
John. W. Berry, Sr. Scholar	University of Dayton	2003-7

Grant Support**In Process:**

Identifying Adverse Modes via Human-Machine Cybernetic Modeling

Office of Navy Research – Multiple University Research Initiative, \$4,998,750;

Co-Investigator (PI: Merfeld, D. Ohio State University); May 2020 – May 2023

Neurocognitive and physiological assessment of competitive eSports gamers vs non-gamers

University of Dayton – School of Education and Health Science Dean’s Summer Fellowship; \$6,000;

Principal Investigator; May 2021 – September 2021

Completed:

Effect of Ischemic Preconditioning on Maximal Incremental Exercise and Metaboreflex Activation

University of Dayton – School of Education and Health Science Dean’s Summer Fellowship; \$6,000;

Principal Investigator; May 2019 – September 2019

Microvascular function in Hispanic males following sugar-sweetened beverage consumption

University of Dayton – Research Council Seed Grant-In-Aid and Summer Research Fellowship; \$6,000;

Principal Investigator; May 2016 – September 2016

Impact of acute hypoxic exposure on microvascular function in young, healthy humans

University of Dayton – Research Council Seed Grant-In-Aid and Summer Research Fellowship; \$5,500;

Principal Investigator; May 2015 – September 2015

Impact of acute dietary nitrate supplementation on the rapid component of post-exercise oxygen consumption

University of Dayton – Research Council Seed Grant-In-Aid and Summer Research Fellowship; \$6,500;

Principal Investigator; May 2014 – September 2014

Not Funded:

Use of immersive virtual reality to enhance stress reduction in an opioid recovery population

University of Dayton – STEM Catalyst Initiative Grant; \$50,000;

Co-Principal Investigator (Co-PI: Reissman, M.); Reviewed April 2018 (Unfunded)

Summer Research Education on the Biological Impact of Alcohol Intoxication

National Institutes of Health, R25 AA025489-01; \$499,590;

Co-Investigator (PI: Sun, Y.); Reviewed July 2016; (Unfunded)

UD Undergraduate Summer Research Fellowship

American Heart Association – Great Rivers Affiliate, Summer Undergraduate Student Research Program; \$40,000;

Faculty Research Mentor (PI: Sun, Y); Reviewed November 2015 (Unfunded)

Bracing Improving Function in Multiple Sclerosis through Data-Driven AFO Prescription

National Institutes of Health, R15 HD087931-01; \$415,370;

Collaborator (PI: Bigelow, K.); Reviewed October 2015 (Scored, Unfunded)

Examining the Reach, Effectiveness and Maintenance of the SIPsmartER intervention in a Hispanic Male Population

National Institutes of Health, R21 NR016109-01; \$400,125;

Co-Investigator (PI: Cuy Castellanos, D.); Reviewed May 2015 (Scored, Unfunded)

RCN-UBE: Sustainable partnership for enrichment of undergraduate physiology education

National Science Foundation, \$499,982

Co-Principal Investigator (PI: Wehrwein E., Michigan State University); Reviewed Summer 2020 (Unfunded).

Peer-Reviewed Publications (Journal Articles and Reviews)

1. Taschner, M, Piero, R, Broomhall, C, and **A.R. Crecelius**. Examining contributors to intent to continue exercise in cancer rehabilitation patients. *J Onc Nurs*. In Press. 2021.
2. Hirshman, E and **A.R. Crecelius**. The Acute Effect of Sugar-Sweetened Beverage Consumption on Microvascular Function in Hispanic Males: *Human Nutrition and Metabolism*. In Press. 2021.
3. **Crecelius, A.R.**, DeRuisseau, L., and J. Brandauer. Cumulative Oral Examinations in Undergraduate Human Physiology: Process, Student Perceptions and Outcomes. *Adv Physiol Educ*. 45(3):518-525. 2021.
4. Ogrodzinski, Y., Wehrwein, E., Kelly, K., Poteracki, J.M., VanRyn, V., and **A.R. Crecelius**. Characteristics of Physiology and Physiology-Related Pre-Health Degree Programs in the Physiology Majors Interest Group. *The Advisor*. 41(1):4. 2021.
5. Aguilar-Roca, N., **Crecelius, A.R.**, McFarland, J.L., Rogers, J., Stanescu, C.I., and E.A. Wehrwein. Where do we go from here: a forward thinking vision for physiology undergraduate degree programs. *Adv Physiol Educ*. 44(4): 702-705. 2020.
6. Rogers, J., McFarland, J.L., Stanescu, C.I., Crosswhite, P.L., and **A.R. Crecelius**. The 2019 P-MIG student survey and capturing the undergraduate perspective of physiology programming. *Adv Physiol Educ*. 44(4): 684-696. 2020.
7. Cuy Castellanos, D., Daprano, C.M., Blevins, C., **Crecelius, A.R.** The theory of planned behavior and strength training in college-aged women. *J Am Coll Health*. <https://doi.org/10.1080/07448481.2020.1775606>. 2020.
8. Wehrwein, E.A., Anderson, L., **Crecelius, A.R.**, Stanescu, C.I., Poteracki, J.M., Halliwill, J.R. and J. Rogers. Case for coordinating efforts to establish program guidelines and strengthen physiology undergraduate degree programs. *Adv Physiol Educ*. 44(4):602-606. 2020.
9. **Crecelius, A.R.** and P.L. Crosswhite. Advising Physiology Students: Perceptions from the Programs. *Adv Physiol Educ*. 44(4):684-696. 2020.
10. LaDuca, B., Ausdenmoore, A., Hallinan, K.P., **Crecelius, A.R.**, Katz-Buonconinro, J., Bennett, J., Arnold, J., Bowman, C., Sweet, C., Hayford, M., Yorke, J., Blust, R., and P. Appiah Kubi. A transdisciplinary collaboration and innovation education model and experience; *Res Higher Ed J*, 37, 2019.
11. Racine, M.L, **Crecelius, A.R.**, Luckasen, G.J., Larson, D.G., and F.A. Dinunno. Inhibition of Na⁺/K⁺-ATPase and K_{IR} channels abolishes hypoxic hyperaemia in resting but not contracting skeletal muscle of humans. *J Physiol*. 596(15):3371-3389. 2018.
12. Keller, J.L., Kelsch, E.A., and **A.R. Crecelius**. Acute effects of sugar-sweetened beverage consumption on reactive hyperemia in young, healthy humans. *J Nat Sci*, 4(2):e486, 2018.
13. Kocoloski, G. M. and **A.R. Crecelius**. Effects of Single-Dose Dietary Nitrate on Oxygen Consumption During and After Maximal and Submaximal Exercise in Healthy Humans. *Intl J of Exer Sci*. 11(3):214-225. 2018.
14. Richards, J.C., **A.R. Crecelius**, D.G. Larson and F.A. Dinunno. Impaired peripheral hypoxic vasodilation in healthy older adults: role of the sympathoadrenal system. *Am J Physiol Heart Circ Physiol*. 312(4):H832-41. 2017.
15. Smith, T.M., Broomhall, C.N., and **A.R. Crecelius**. Physical and psychological impacts of exercise on cancer rehabilitation patients. *Clin J Oncol Nursing*. 20(6), 653-659. 2016.
16. Wald, C.M. and **A.R. Crecelius**. Health-related quality of life increases similarly in type 2 diabetic versus non-diabetic patients following 7-12 week cardiac rehabilitation. *J Cardiopulm Rehab and Preven*.36(5):339-45. 2016.

17. M. Wilson, K. Virgin, K. Haynes, **A.R. Crecelius**. Effect of Sleep on the Attentiveness of Elementary School Students. *Undergraduate Research Journal for the Human Sciences*. 15. 2016.
18. **Crecelius A.R.** and F.A. Dinunno. Vascular regulation via K_{IR} channels and Na^+/K^+ -ATPase. *Channels*. 9(4):171-2. 2015.
19. Richards, J.C., **A.R. Crecelius**, D.G. Larson and F.A. Dinunno. Acute ascorbic acid ingestion increases skeletal muscle blood flow and oxygen consumption via local vasodilation during graded handgrip exercise in older adults. *Am J Physiol Heart Circ Physiol*. 309(2):H360-8. 2015.
20. **Crecelius A.R.**, B.S. Kirby, C.M. Hearon Jr, G.J. Luckasen, D.G. Larson and F.A. Dinunno. Contracting human skeletal muscle maintains the ability to blunt α_1 -adrenergic vasoconstriction during K_{IR} channel and Na^+/K^+ -ATPase inhibition. *J Physiol*. 593(12):2735-51. 2015.
21. **Crecelius A.R.**, B.S. Kirby, and F.A. Dinunno. Intravascular ATP and the regulation of blood flow and oxygen delivery in humans. *Ex Sport Sci Rev*. 43(1):5-13. 2015 ^
22. **Crecelius A.R.**, G.J. Luckasen, D.G. Larson and F.A. Dinunno. K_{IR} channel activation contributes to onset and steady-state exercise hyperemia in humans. *Am J Physiol Heart Circ Physiol*. 307(5):H782-91. 2014.
23. **Crecelius, A.R.** and F.A. Dinunno. Understanding ATP-mediated vasodilatation in humans: our hyper-polarizing story. *Physiology News*. 94:38-44. 2014.
24. **Crecelius A.R.**, J.C. Richards, G.J. Luckasen, D.G. Larson and F.A. Dinunno. Reactive hyperemia occurs via activation of inwardly-rectifying potassium channels and Na^+/K^+ -ATPase in humans. *Circ Res*. 113(8):1023-32. 2013.
25. **Crecelius A.R.**, B.S. Kirby, G.J. Luckasen, D.G. Larson and F.A. Dinunno. Mechanisms of rapid vasodilatation following a brief contraction in human skeletal muscle. *Am J Physiol Heart Circ Physiol*. 305(1):H29-40. 2013. ◇
26. **Crecelius A.R.**, B.S. Kirby, J.C. Richards, and F.A. Dinunno. Mechanical effects of muscle contraction increase intravascular ATP in humans. *J Appl Physiol*. 114:1085-93. 2013.
27. Kirby B.S., **A.R. Crecelius**, J.C. Richards, and F.A. Dinunno. Sources of intravascular ATP during exercise in man: critical role for skeletal muscle perfusion. *Exp Physiol*. 98:988-98. 2013.
28. **Crecelius A.R.**, B.S. Kirby, G.J. Luckasen, D.G. Larson and F.A. Dinunno. ATP-mediated vasodilatation occurs via activation of inwardly-rectifying potassium channels in humans. *J Physiol*. 590:5349-5359. 2012. **** † ‡
29. Kirby B.S., **A.R. Crecelius**, W.F. Voyles, and F.A. Dinunno. Impaired skeletal muscle blood flow control with advancing age in humans: attenuated ATP release and local vasodilation during erythrocyte deoxygenation. *Circ Res*. 111:220-230. 2012. ***
30. Richards, J.C., **A.R. Crecelius**, B.S. Kirby, D.G. Larson and F.A. Dinunno. Muscle contraction duration and fibre recruitment influence blood flow and VO_2 independent of contractile work during steady-state exercise in humans. *Exp Physiol*. 97:750-761. 2012.
31. Richards J.C., **A.R. Crecelius**, and B.S. Kirby. Muscle afferent feedback during exercise: putting the pressure on flow. *J Physiol*. 589:5923-5924. 2011.
32. **Crecelius A.R.**, B.S. Kirby, J.C. Richards, L.J. Garcia, W.F. Voyles, D.G. Larson, G.J. Luckasen and F.A. Dinunno. Mechanisms of ATP-mediated vasodilatation in humans: modest role for nitric oxide and prostaglandins. *Am J Physiol Heart Circ Physiol*. 301:H1302-H1310. 2011.

33. **Crecelius A.R.**, B.S. Kirby, W.F. Voyles, and F.A. Dinunno. Augmented skeletal muscle hyperaemia during hypoxic exercise in humans is blunted by combined inhibition of nitric oxide and vasodilating prostaglandins. *J Physiol.* 589:3671-3683. 2011.
34. Kirby B.S., **A.R. Crecelius**, W.F. Voyles, and F.A. Dinunno. Modulation of postjunctional α -adrenergic vasoconstriction during exercise and exogenous ATP infusions in ageing humans. *J Physiol.* 589:2641-2653. 2011. **
35. Markwald R.R., B.S. Kirby, **A.R. Crecelius**, R.E. Carlson, W.F. Voyles, and F.A. Dinunno. Combined inhibition of nitric oxide and vasodilating prostaglandins abolishes forearm vasodilatation to systemic hypoxia in healthy humans. *J Physiol.* 589:1979-1990. 2011. *
36. **Crecelius A.R.**, B.S. Kirby, W. F. Voyles, and F.A. Dinunno. Nitric oxide but not vasodilating prostaglandins contributes to the improvement of exercise hyperemia via ascorbic acid in healthy older adults. *Am J Physiol Heart Circ Physiol.* 299:H1633-H1641. 2010.
37. Kirby B.S., **A.R. Crecelius**, W.F. Voyles, and F.A. Dinunno. Vasodilatory responsiveness to adenosine triphosphate in ageing humans. *J Physiol.* 588:4017-4027. 2010.
38. **Crecelius A.R.**, P.M. Vanderburgh, and L.L. Laubach. Contributions of body fat and effort in the 5K run: age and body weight handicap. *J Strength and Cond Res.* 22(5):1475-80. 2008.

Corresponding Editorials/Perspectives/Journal Club Articles/Reviews/Podcasts:

*Limberg J.K. and W.G. Schrage. Hypoxia: just say NO? *J Physiol.* 589:2111-2112. 2011.

**Simmons G.H. and S.B. Bender. Not a fine wine: the ATP hypothesis may not get better with age. *J Physiol.* 589:2437-2438. 2011.

***Chillian W.M., L. Yin, and V.A. Ohanian. Mysteries in the local control of blood flow: a physiological “whodunit” involving red cell release of ATP? *Circ Res.* 111:156-157. 2012.

****Saltin B. In search of a vasodilator: is ATP the answer? *J Physiol.* 590:5261-5262. 2012.

† *Faculty of 1000* rated as “Very Good” by James Duffin, F1000 Physiology, 21 Nov 2012, DOI: 10.3410/f.717962706.793464663.

‡ Johansson RE, JK Limberg, MK Crain, GL Peltonen, and CL Rousseau. ATP-mediated vasodilatation: all thanks to potassium? *J Physiol.* 591:399-400

◇ Am J Physiol Heart Circ Podcast. URL:<http://ajpheart.podbean.com/2013/07/16/signaling-of-immediate-exercise-hyperemia/>

^Selected for corresponding Online Journal Club discussion questions.

Peer-Reviewed Publications in Process

1. LaGalbo, S. Sorensen J., and **A.R. Crecelius**. Effects of Ischemic Preconditioning on Maximal Exercise and Metaboreflex Activation. In Preparation (Eur J Appl Phys). 2021.
2. Paasafiume, J.A., Glover, N.A., **Crecelius, A.R.**, and A.M.W. Chaudhuri. The influence of receiving real-time visual feedback on breathing during treadmill running to exhaustion. Resubmitted. 2021.

3. Dickens, C, Bigelow KE and **A.R. Crecelius**. Heart Rate and Blood Pressure Responses in Younger and Older Females During Dual-Task Posturography Assessments. In Revision to Resubmit. 2021.
4. Kelsch, E.A., Keller, J.L. and **A.R. Crecelius**. Impact of acute isocapnic hypoxia on reactive hyperemia in young, healthy humans. In Preparation (Experimental Physiology). 2021.
5. Hudock, M.J., Keller, J.L., and **A.R. Crecelius**. Effect of combination ice and compression socks on resting calf blood flow in trained male athletes. In Preparation (Int J of Sport Sci). 2021.
6. Sorensen, J., LaGalbo S. and **A.R. Crecelius**. Effects of remote ischemic preconditioning on cognitive function and exercise hyperemia in isocapnic hypoxia. In Preparation (Exp Physiol). 2021.

Other Publications

1. **Crecelius, A.R.** Life lessons in homeostasis: incorporating my personal cancer story into teaching. The Physiological Society Blog. July 15, 2021. <https://www.physoc.org/blog/life-lessons-in-homeostasis-incorporating-my-personal-cancer-story-into-teaching/>
2. **Crecelius, A.R.** From professor to patient X. *Science*. 372(6542):654. 2021. <https://science.sciencemag.org/content/372/6542/654>
3. **Crecelius, A.R.** Person First Teaching in Physiology. PECOP Blog. Life Science Teaching Resource Community. March 2021. <https://blog.lifescitrc.org/pecop/2021/03/09/person-first-teaching-in-physiology/>
4. **Crecelius, A.R.** When working out makes you sick to your stomach: What to know about exercise-induced nausea. December 2020. <https://theconversation.com/when-working-out-makes-you-sick-to-your-stomach-what-to-know-about-exercise-induced-nausea-149061> (34,091 readers as of 1/18/21)
5. **Crecelius, A.R.** Learning the Global Language. In: Enhancing Global Awareness on Campus, Proceedings: 2020 Global Voices on the University of Dayton Campus. 10. pg. 122-128. 2020. https://ecommons.udayton.edu/global_voices_3/10
6. **Crecelius, A.R.** Spotlight On: The Digestive System. I Spy Physiology Blog. American Physiological Society. January 2020. <https://ispyphysiology.com/2020/01/16/spotlight-on-the-digestive-system/>
7. **Crecelius, A.R.** Tracking your heart rate? 5 questions answered about what that number really means. The Conversation. December 2019. <https://theconversation.com/tracking-your-heart-rate-5-questions-answered-about-what-that-number-really-means-12406619> (92,649 readers as of 1/18/21)
8. **Crecelius, A.R.** Spotlight On: The Immune System. . I Spy Physiology Blog. American Physiological Society. October 2019. <https://ispyphysiology.com/2019/10/17/spotlight-on-the-immune-system/>
9. **Crecelius, A.R.** Why do people faint? The Conversation. June 2019. <https://theconversation.com/why-do-people-faint-109620> (71,759 readers as of 1/18/21)
10. **Crecelius, A.R.** Pregnancy, Altitude and Exercise: One Serious Set of Challenges. I Spy Physiology Blog. American Physiological Society. October 2018. <https://ispyphysiology.com/2018/10/24/pregnancy-altitude-and-exercise-one-serious-set-of-challenges/>
11. **Crecelius, A.R.**, Questioning How I Question. PECOP Blog. Life Science Teaching Resource Community. October 2018. <https://blog.lifescitrc.org/pecop/2018/10/15/questioning-how-i-question/>

12. **Crecelius, A.R.**, The 5 W's of PhUn Week. PhUn Week Blog. Life Science Teaching Resource Community. January, 2018. <https://blog.lifescitrc.org/phunweek/2018/01/15/the-5ws-of-phun-week/>
13. **Crecelius, A.R.**, Report from the Inaugural Physiology Majors Interest Group Meeting. PECOP Blog. Life Science Teaching Resource Community. August, 2017. <https://blog.lifescitrc.org/pecop/2017/08/01/report-from-the-inaugural-physiology-majors-interest-group-meeting/>
14. Goff, L and **A.R. Crecelius**. Dog Gazing: Attachment between Hound and Human. I Spy Physiology Blog. American Physiological Society. August 2017. <https://ispyphysiology.com/2017/08/31/dog-gazing-attachment-between-hound-and-human/>
15. Kramer, A and **A.R. Crecelius**. Fact or Fiction: Does Coca Candy Prevent Altitude Sickness? I Spy Physiology Blog. American Physiological Society. August 2017. <https://ispyphysiology.com/2017/08/16/fact-or-fiction-does-coca-candy-prevent-altitude-sickness/>
16. Gearin, M. and **A.R. Crecelius**. Not Horsing Around: Therapeutic Effects of Horseback Riding. I Spy Physiology Blog. American Physiological Society. July 2017. <https://ispyphysiology.com/2017/07/05/not-horsing-around-therapeutic-effects-of-horseback-riding/>
17. **Crecelius, A.R.**. Keeping Up with the Highland Natives. I Spy Physiology Blog. American Physiological Society. October 2016. <https://ispyphysiology.com/2016/10/13/keeping-up-with-the-highland-natives/>
18. **Crecelius, A.R.**. A 10,000-Foot View from the ALMA Observatory in Atacama. I Spy Physiology Blog. American Physiological Society. September 2016. <https://ispyphysiology.com/2016/09/01/a-10000-foot-view-from-the-alma-observatory-in-atacama/>
19. **Crecelius, A.R.**. In Santiago, What's Smog Got to Do with It? I Spy Physiology Blog. American Physiological Society. August 2016. <https://ispyphysiology.com/2016/08/10/in-santiago-whats-smog-got-to-do-with-it/>
20. Keller, J.L. and **A.R. Crecelius**. Everything in moderation, including moderation (comment). Supplementary Material to: Wisloff, U., J.S. Coombes and O. Rognmo. CrossTalk proposal: High intensity interval training does have a role in risk reduction or treatment of disease. *J Physiol*. 593(24): 5215-17. 2015. <http://api.onlinelibrary.wiley.com/asset/v1/doi/10.1113%2FJFP271041/asset/supinfo%2Ftjp6894-sup-0001-Comments.pdf>
21. **Crecelius, A.R.**. Hungry, Hungry Hormones: What Keeps You from Saying No to a Second Slice of Pie? I Spy Physiology Blog. American Physiological Society. November 2015. <http://ispyphysiology.com/2015/11/18/hungry-hungry-hormones-what-keeps-you-from-saying-no-to-a-second-slice-of-pie/>
22. Kelsch, E.A. and **A.R. Crecelius**. The impact of acute hypoxic exposure on vascular function in young, health humans: a review. *Proceedings of the Berry Summer Thesis Institute*. 24-29. 2015.
23. **Crecelius, A.R.**. Get a Grip: What Grip Strength Can Tell Us about the Cardiovascular System. I Spy Physiology Blog. American Physiological Society. June 2015. <http://ispyphysiology.com/2015/06/17/get-a-grip-what-grip-strength-can-tell-us-about-the-cardiovascular-system/>
24. **Crecelius, A.R.**. Talking Physiology: Oral Exams in an Undergraduate Course. PECOP Blog. Life Science Teaching Resource Community. April 2015. <http://blog.lifescitrc.org/pecop/2015/04/27/talking-physiology-oral-exams-in-an-undergraduate-course/>

25. **Crecelius, A.R.** UD and DECA: Successful Stations in a Seventh-Grade Classroom for PhUn Week - PhUn Week Poster Session EB 2015. Life Science Teaching Resource Community. March 2015.
<http://www.lifescitrc.org/resource.cfm?submissionID=10020>
26. Kocoloski, G.M. and **A.R. Crecelius**. Alterations and specifications of excess post-exercise oxygen consumption: a review. *Proceedings of the Berry Summer Thesis Institute*. 28-32. 2014.

Professional Abstracts

1. Reissman, T., Kompa, P., Duff, K., Collins, S., Reissman, M., and **A.R. Crecelius**. Joystick-based motor control task during sympathoexcitation via cold pressor in healthy humans. Society for Neuroscience. 2021.
2. Passfiume, J.A., Glover, N.A., **Crecelius, A.R.**, and A.M.W. Chaudhari. Real-Time Visual Feedback on Breathing during Treadmill Running to Exhaustion. American Society of Biomechanics. 2020.
3. LeGalbo, S. and **A.R. Crecelius**. Effects of Ischemic Preconditioning on Maximal Exercise and Metaboreflex Activation. *FASEB J.* 34(51). 1-1. 2020. * (Not presented due to COVID-19 pandemic)
4. **A.R. Crecelius**. Relationship Between Student Viewing of Recorded Lectures and Course Success in a Flipped Undergraduate Physiology Course. *FASEB J.* 2020.* (Not presented due to COVID-19 pandemic)
5. Broomhall, C., Taschner, M., and **A.R. Crecelius**. Examination of intent of cancer rehabilitation patients to continue exercise utilizing the theory of planned behavior. TriState Nursing Excellence Symposium: Sharing Innovation & Best Practice. 2020 (Not presented due to COVID-19 pandemic) †
6. Broomhall, C., Smith T., and **A.R. Crecelius**. Physical and Psychological Effects of a 12-Session Cancer Rehabilitation Exercise Program. TriState Nursing Excellence Symposium: Sharing Innovation & Best Practice. 2020 (Not presented due to COVID-19 pandemic)
7. Sorensen, J.N. and **A.R. Crecelius**. The Effects of Remote Ischemic Preconditioning on Cognitive Function and Exercise Hyperemia in Isocapnic Hypoxia. *FASEB J.* 33:841.7. 2019
8. Hirshman, E. and **A.R. Crecelius**. Seeing Science and Physiology Research - PhUn Week Outcomes in High School Students. Experimental Biology – Science Outreach. 2019.
9. Dickens C, Bigelow, KE and **A.R. Crecelius**. Understanding Heart Rate and Blood Pressure in Older Adults During Ongoing Single-Task and Dual-Task Balance Testing Protocols. *FASEB J.* 32:1b322. 2018.
10. Dickens C and **A.R. Crecelius**. Teaching New Words in New Ways: PhUn Week Outcomes in Elementary Students. *FASEB J.* 32: 629.3. 2018.*
11. **A.R. Crecelius**. Understanding how we understand: promoting research literacy during PhUn week. *FASEB J.* 31:1b850. 2017.
12. Morrison, P.E. and **A.R. Crecelius**. Effects of temperature on muscle force and fatigue during isometric contractions of the forearm in young, healthy humans. Presented at Stander Symposium, University of Dayton, 2016.
13. Holtzmann, C. and **A.R. Crecelius**. Allometric scaling for the bench press and squat for Division I college athletes. Presented at Stander Symposium, University of Dayton, 2016.
14. **A.R. Crecelius**. Teaching the themes: PhUn Week student-led sessions. *FASEB J.* 30:1b754. 2016.

15. Hudock, M.J., J.L. Keller and **A.R. Crecelius**. Effect of Combination Ice and Compression Socks on Resting Calf Blood Flow in Trained Male Athletes. *FASEB J.* 30:1291.3 †*
16. Kelsch, E.A., J.L. Keller and **A.R. Crecelius**. The Impact of Acute Isocapnic Hypoxia on Reactive Hyperemia in Young, Healthy Humans. *FASEB J.* 30:763.22. 2016. *
17. Keller, J.L., E.A. Kelsch, D.C. Castellanos and **A.R. Crecelius**. Acute Effects of Sugar-Sweetened Beverage Consumption on Reactive Hyperemia in Young, Healthy Humans. *FASEB J.* 30:736.10. 2016.
18. **Crecelius, A.R.** and J. Keller. Impact of co-enrollment in computer-based Human Physiology virtual laboratory on students' final lecture course grade: a follow-up study. *FASEB J.* 29: 688.3. 2015.
19. Kocoloski, G.M. and **A.R. Crecelius**. Effects of single-dose dietary nitrate on oxygen consumption during and after prolonged submaximal exercise in healthy humans. *FASEB J.* 29: 675.15. 2015.*
20. Hearon Jr. C.M., B.S. Kirby, **A.R. Crecelius**, G.J. Luckasen, D.G. Larson and F.A. Dinunno. Augmentation of functional sympatholysis via endothelial signaling is independent of nitric oxide and prostaglandins in humans. *FASEB J.* 29:688.3. 2015.
21. Lyn R.C. and **A.R. Crecelius**. Allometric Modelling for the Bench Press and Squat for Division I Collegiate Athletes. Presented at Stander Symposium, University of Dayton, 2015.
22. **Crecelius, A.R.** Impact of Co-enrollment in Computer-based Human Physiology Virtual Laboratory on Students' Final Lecture Course Grade: A Pilot Study. *Physiologist.* 57(6):17.2. 2014.
23. Brown C. and **A.R. Crecelius**. Retrospective analysis of 5-week summer sports program indicates health improvements in 9-16 year olds. Presented at Stander Symposium, University of Dayton. 2014.
24. Richards, J.C., **A.R. Crecelius**, C Hearon Jr, M Racine, G.J. Luckasen, D.G. Larson, and F.A. Dinunno. Influence of sympathetic vasoconstriction on muscle blood flow control during graded handgrip exercise in young and older adults. *FASEB J.* 28:1165.2. 2014.*
25. **Crecelius A.R.**, G.J. Luckasen, D.G. Larson and F.A. Dinunno. Activation of K_{IR} channels and Na^+/K^+ -ATPase is not obligatory to blunt sympathetic vasoconstriction in contracting human skeletal muscle. *FASEB J.* 28:1170.6. 2014*†
26. M Racine, **A.R. Crecelius**, D.G. Larson, G.J. Luckasen and F.A. Dinunno. Contribution of vascular hyperpolarization to augmented skeletal muscle hyperemia during hypoxic exercise in humans. *FASEB J.* 28:1079.20. 2014
27. **Crecelius A.R.**, J.C. Richards, G.J. Luckasen, D.G. Larson and F.A. Dinunno. Role of vascular hyperpolarization, nitric oxide, and prostaglandins in reactive hyperemia in healthy humans. *FASEB J.* 27:924.1. 2013. *†
28. Kirby, B.S., **A.R. Crecelius**, J.C. Richards, and F.A. Dinunno. Sources of intravascular ATP during exercise in humans: critical role for skeletal muscle perfusion. *FASEB J.* 27:710.6. 2013.
29. Kirby, B.S., **A.R. Crecelius**, J.C. Richards, G.J. Luckasen, D.G. Larson and F.A. Dinunno. Augmentation of endothelium-dependent vasodilation during mild exercise blunts postjunctional α -adrenergic vasoconstriction. *FASEB J.* 27:924.9. 2013.
30. Richards, J.C., **A.R. Crecelius**, B.S. Kirby, L.J. Garcia, G.J. Luckasen, D.G. Larson, and F.A. Dinunno. Impaired hypoxic vasodilation in healthy older adults: role for altered sympatho-adrenal control of vascular tone. *FASEB J.* 27:1119.1. 2013. *

31. Richards, J.C., **A.R. Crecelius**, G.J. Luckasen, D.G. Larson, and F.A. Dinunno. Acute ascorbic acid infusion improves peripheral hypoxic vasodilation in older adults. Presented at International Hypoxia Symposium 2013. *
32. **Crecelius A.R.**, B.S. Kirby, G.J. Luckasen, D.G. Larson and F.A. Dinunno. ATP-mediated vasodilation occurs via vascular hyperpolarization in humans. *FASEB J.* 26:1058.1. 2012. †
33. **Crecelius A.R.**, B.S. Kirby, J.C. Richards, L.J. Garcia, G.J. Luckasen, D.G. Larson and F.A. Dinunno. Vascular hyperpolarization contributes to onset and steady-state exercise hyperemia in humans. *FASEB J.* 26:1138.43. 2012.
34. Kirby, B.S., **A.R. Crecelius**, J.C. Richards, L.J. Garcia, G.J. Luckasen, D.G. Larson and F.A. Dinunno. Mechanisms of Skeletal Muscle Contraction-Induced Rapid Vasodilation in Humans: Role of Vascular Hyperpolarization *FASEB J.* 26:1138.27. 2012.
35. Kirby, B.S. L.J. Garcia, **A.R. Crecelius**, J.C. Richards, G.J. Luckasen, D.G. Larson and F.A. Dinunno. Erythrocytes from older healthy humans fail to release ATP during hemoglobin deoxygenation. *FASEB J.* 26:860.22. 2012.
36. Kirby, B.S., J.C. Richards, **A.R. Crecelius**, L.J. Garcia, G.J. Luckasen, D.G. Larson and F.A. Dinunno. Endogenous ATP and the Modulation of Sympathetic Vasoconstriction in Contracting Skeletal Muscle of Humans *FASEB J.* 26:893.17. 2012. *
37. Richards, J.C., **A.R. Crecelius**, B.S. Kirby, L.J. Garcia, G.J. Luckasen, D.G. Larson and F.A. Dinunno. Acute oral ingestion of ascorbic acid improves muscle blood flow and oxygen consumption during exercise in older healthy humans. *FASEB J.* 26:138.8. 2012.
38. **Crecelius, A.R.**, B.S. Kirby, J.C. Richards, L.J. Garcia, W.F. Voyles, D.G. Larson and F.A. Dinunno. Mechanisms of adenosine triphosphate-mediated vasodilation in humans: modest role for nitric oxide and prostaglandins. *FASEB J.* 25:818.2. 2011.
39. **Crecelius, A.R.**, L.J. Garcia, J.C. Richards, B.S. Kirby, D.G. Larson, F.A. Dinunno. Inhibition of nitric oxide and vasodilating prostaglandins does not impair potassium and adenosine triphosphate-mediated vasodilation in the human forearm. Presented at ACSM Rocky Mountain Chapter Annual Meeting. 2011.
40. **Crecelius, A.R.**, B.S. Kirby, J.C. Richards, W.F. Voyles, and F.A. Dinunno. Rhythmic mechanical deformation of the human forearm increases venous plasma [ATP] and ATP release. *FASEB J.* 24:1039.10. 2010.
41. Kirby, B.S., J.C. Richards, **A.R. Crecelius**, W.F. Voyles, and F.A. Dinunno. Modulation of postjunctional α -adrenergic vasoconstriction during exercise and exogenous ATP infusions in aging humans. *FASEB J.* 24:1049.8. 2010. †
42. Kirby, B.S., **A.R. Crecelius**, W.F. Voyles, and F.A. Dinunno. Impaired ATP release during exercise in older adults: potential mechanism for impaired skeletal muscle blood flow with advancing age. *FASEB J.* 24:1039.12. 2010. *
43. Richards, J.C., **A.R. Crecelius**, B.S. Kirby, and F.A. Dinunno. Influence of contractile work and muscle fiber recruitment on skeletal muscle blood flow in humans. *FASEB J.* 24:1b645. 2010.
44. Richards, J.C., **A.R. Crecelius**, B.S. Kirby, F.A. Dinunno. Influence of contractile work and muscle fiber recruitment on skeletal muscle blood flow in humans. Presented at ACSM Rocky Mountain Chapter Annual Meeting. 2010. *
45. **Crecelius, A.R.**, J.C. Richards, L.Y. Jordan, B.S. Kirby, and F.A. Dinunno. Mechanical deformation of skeletal muscle increases circulating ATP in humans. *Med Sci Sports Ex.* 42(10): S2.42, 2010.
46. **Crecelius, A.R.**, W.F. Voyles, B.R. Dumke, J.A. Davis, B.S. Kirby, and F.A. Dinunno. Effect of combined nitric oxide and prostaglandin inhibition on hypoxic exercise hyperemia. *FASEB J.* 23:608.3, 2009. *

47. **Crecelius, A.R.**, W.F. Voyles, B.R. Dumke, J.A. Davis, B.S. Kirby, and F.A. Dinunno. Improvements in exercise hyperemia via ascorbic acid in older healthy adults: role for nitric oxide? *FASEB J.* 23:777.1, 2009.
48. Kirby, B.S., W.F. Voyles, **A.R. Crecelius**, and F.A. Dinunno. ATP-mediated vasodilation is not reduced in aging humans. *FASEB J.* 23:777.4, 2009.
49. **Crecelius, A.R.**, W.F. Voyles, J.A. Davis, J.C. Richards, B.S. Kirby, and F.A. Dinunno. Improvement in exercise hyperemia via vitamin C in older healthy adults: important role for nitric oxide. Presented at Colorado State University Healthy Aging Colloquium. 2009. *
50. Kirby, B.S., **A.R. Crecelius**, W.F. Voyles, and F.A. Dinunno. Impaired endogenous ATP release during exercise in older adults: potential mechanism for impaired skeletal muscle blood flow with advancing age? Presented at Colorado State University Healthy Aging Colloquium. 2009. *
51. Richards, J.C., B.S. Kirby, **A.R. Crecelius**, W.F. Voyles, and F.A. Dinunno. Elevated Arterial Pressure Response During Forearm Exercise With Aging. Presented at Colorado State University Healthy Aging Colloquium. 2009.
52. **Crecelius, A.R.**, P.M. Vanderburgh, and L.L. Laubach. Contributions of body fat and effort in the 5K run: age and body weight handicap. *Med Sci Sports Ex.* 39(5): S209, 2007.
53. **Crecelius, A.R.**, R.A. Sedlacek, D.A. Berning, and C.J. Braehler. A novel two-stage validation process using field testing to identify cardiovascular disease risk in adolescents. *Ohio J Sci.* 106(1):107, 2006.
- * Abstract-based award winner † Selected for oral presentation

Invited Professional Presentations

- “*Debunking Vaccine Infertility Rumors AKA Think Like a Scientist and Be Information Literate: In a Pandemic and Always*”
 COVID Myths and Misinformation Teach-In
 University of Dayton
 Fall 2021
- “*Advising the Physiology Student*”
 Session, Physiology Majors Interest Group
 Annual Meeting 2019, Minneapolis, MN.
 Summer 2019
- “*Using writing to teach and assess undergraduate students*”
 Symposium, Teaching Section, American Physiological Society
 Experimental Biology 2019, Orlando, FL.
 Spring 2019
- “*Skeletal muscle vascular regulation in humans: a balancing act*”
 Departmental Seminar
 Department of Biological Sciences, Wright State University, Dayton, OH.
 Spring 2017
- “*Amazing work ahead*”
 First Year Convocation
 University of Dayton, Dayton, OH.
 Fall 2017
- “*Going with the flow: cardiovascular function in humans*”
 S.T.A.R.S. Symposium
 University of Dayton, Dayton, OH.
 Fall 2016
- “*Delivery and demand: vascular regulation in human skeletal muscle*”
 Fall 2016

Exercise Science Graduate Seminar.

College of Health and Human Services, University of Toledo, Toledo, OH.

- “*Oxygen supply and Demand: the Human Vasculature's Impressive Matching Ability*” Fall 2015
S.T.A.R.S. Symposium
University of Dayton, Dayton, OH.
- “*Activation of K_{IR} channels and Na^+/K^+ -ATPase is not obligatory to blunt sympathetic vasoconstriction in contracting human skeletal muscle*” Spring 2014
NCARNation Symposium, Neural Control and Autonomic Regulation Section, American Physiological Society
Experimental Biology, San Diego, CA.
- “*Role of Vascular Hyperpolarization, Nitric Oxide, and Prostaglandins in Reactive Hyperemia in Healthy Humans*” Spring 2013
Featured Topic, Cardiovascular Section, American Physiological Society
Experimental Biology, Boston, MA.
- “*Understanding the Integrative Signaling Pathways of Vascular Tone and Oxygen Delivery in Humans*” Spring 2013
Featured Presentation
Cardiovascular Research at CSU: Molecules, Models and Mankind, Fort Collins, CO.
- “*Regulation of Muscle Blood Flow in Humans: An Integrative Approach*” Fall 2012
Research Presentation
Department of Health and Sport Science, University of Dayton, Dayton, OH.
- “*Relative Maintenance of Skeletal Muscle Vasoconstriction during Exercise in the Aged: is ATP involved?*” Spring 2012
Symposium, Environmental and Exercise Physiology Section, American Physiological Society
Experimental Biology, San Diego, CA.
- “*ATP-Mediated Vasodilation Occurs via Vascular Hyperpolarization in Humans*” Spring 2012
Featured Topic, Cardiovascular Section, American Physiological Society
Experimental Biology, San Diego, CA.
- Accepted Professional Presentations**
- “*Opportunity or Offensive: Editorial Comments in a Physiology Course on Diversity Equity & Inclusion*” Spring 2021
Inclusive Pedagogy Workshop
University of Dayton
- “*Cerebral Blood Flow Measurements in the IHPL*” Spring 2021
Thomas C Hunt Building a Research Community Day
School of Education and Health Sciences, University of Dayton, Dayton, OH.
- “*Pilot Nutrition, Fitness and Injury Screening Clinic – Accomplishments and Outlook*” Spring 2021
Co-Presenters: Cuy Castellanos, D., Beerse, M., Gallo, G., and Gonter-Dray, R.
Thomas C Hunt Building a Research Community Day
School of Education and Health Sciences, University of Dayton, Dayton, OH.
- “*Curriculum, Core Concepts, and Cooperation: PMIG (Professional Development)*” Summer 2019
Co-Presenters: Erica Wehrwein, Jenny McFarland, Jen Rogers
Workshop, Human Anatomy and Physiology Society
Annual Meeting 2019, Portland, OR.

- “*The GEMnasium: a playground for transdisciplinary and humanity-centered education & experiences*” Fall 2018
 Co-Presenters: Brian LaDuca and Kevin Hallinan.
 AAC&U’s Transforming STEM Higher Education. Atlanta, GA.
- “*An Engineer, Artist, and Scientist Walk into a Room*” Spring 2018
 Co-Presenters: Kevin Hallinan and Jerome Yorke.
 Learning and Teaching Forum
 University of Dayton, Dayton, OH.
- “*Cardiovascular implications of balance tasks*” Spring 2017
 Thomas C Hunt Building a Research Community Day
 School of Education and Health Sciences, University of Dayton, Dayton, OH.

Video/Media Contributions

University of Dayton

- 2015, [STARS Research Symposium, Oxygen Delivery and Muscle Blood Flow](#)
- 2017, [Example of Teaching using Lightboard Technology](#)
- 2018, [The GEMnasium, A Test Lab for Transdisciplinary Learning](#)
- 2018, [Faculty Award in Teaching](#)
- 2019, [Meaningfulness of the Learning and Teaching Center](#)

American Physiological Society

- 2019, ‘[The Now Generation](#)’, S. Brooks, *The Physiologist*

Dayton Daily News

- 2021, [Getting real with virtual fitness in these times](#)

Teaching

University of Dayton

Department of Health and Sport Science

- HSS 114 – Introduction to Health Professions (complete course revision)
- HSS 307 – Human Physiology (complete course revision)
- HSS 307L – Human Physiology Laboratory (course modification, graduate assistant supervision)
- HSS 201 – Medical Terminology (Supervising Instructor for Adjunct, Quality Matters online course creation, summer faculty)
- HSS 428/555 – Research in Health and Sport Science (Honors); (complete course revision); CAP Capstone approval (SLO: Vocation and Scholarship); 6-week revision for study abroad
- HSS 465 – Seminar in Health Science (new course creation); CAP Capstone approval (SLO: Vocation and Community)
- HSS 488 – Special Topics: Environmental Physiology (new course creation)

Other Institutional Teaching

- Guest Lectures: HSS/SOC 360 Sport and Bodies
- Institute of Applied Creativity for Transformation (Fall 2016, Fall 2017)
- MBA@Dayton - A Community of Competitors: A Creative Place Study of the Business of Sport – Immersion, Portland, OR (June 2018)

Colorado State University

Department of Health and Exercise Science

- HES 403 – Physiology of Exercise (partial)
- HES 403L – Physiology of Exercise Laboratory

- HES 405L – Exercise Testing Instrumentation Laboratory
- HES 240 – First Aid and Emergency Care
- HES 1000 – Beginning Weight Training
- HES 100A – Beginning Aerobics

Advising and Mentoring

Academic and Pre-Health Professional Advising

2013-2014: ~35 students
 2014-2015: ~50 students
 2015-2016: ~65 students
 2016-2017: ~85 students
 2017-2018: ~80 students
 2018-2019: ~70 students
 2019-2020: ~150 students
 2020-2021: ~125 students
 2021-2022: On Approved Sabbatical Leave

Graduate Students

Committee Chair (M.S.E. Exercise Science)

Daniel Rodrigues (Graduated August 2019)
 Current: DPT Student, University of Dayton

Emma Hirschman (Graduated August 2019)
 Current: DPT Student, Widener University

Clarissa Blevins (Graduated May 2019)
 Current: Fitness Professional, City of Kettering, OH

Cameron Dickens (Graduated Dec 2018)
 Current: Secondary Science Teacher, Yellow Springs, OH

Robyn Vanheste (Graduated August 2017)
 Current: Cardiovascular Rehabilitation, Premier Health

Maria Mostaed (Co-Chair –Graduated May 2017)
 Recipient of Graduate Student Summer Fellowship, University of Dayton
 Current: Adjunct Faculty, University of Dayton

Joshua Keller (Graduated 2016)
 Recipient of Graduate Student Summer Fellowship, University of Dayton
 Current: Assistant Professor, University of South Alabama

Brittany Stout (Graduated May 2016)
 Current: Clinical Exercise Coordinator, Maple Tree Cancer Alliance, Dayton, OH

Tricia Smith (Graduated Dec 2015)
 Current: Exercise Physiologist, Cancer Rehabilitation, Miami Valley Hospital South, Dayton, OH

Jared Phillips (Graduated August 2015)
 Current: Assistant Strength and Conditioning Coach, University of Dayton, Dayton, OH

Caroline Wald (Graduated Dec 2014)
 Current: Exercise Physiologist, Cardiac/Pulmonary Rehabilitation, Miami Valley Hospital, Dayton, OH

Committee Member (M.S.E. Exercise Science)

Taylor Swann (In Progress)

Megan Mowers (Graduated May 2017)

Victoria Roy (Graduated May 2017)

Ebony Taylor (Graduated December 2017)

Chiung Yi Huang (Graduated May 2016 - Interdisciplinary)

Anna-Bridgette Shorten (Graduated Aug 2014)

- Committee Member (M.D.N. Dietetics and Nutrition)
 Rachel Piero (Anticipated December 2021)
 Tori Sedlmayer (Anticipated December 2021)
 Committee Member (M.S. Mechanical Engineering)
 Amanda Delaney (Aug 2019)
 Committee Member (Dissertation, Educational Leadership)
 Brian LaDuca (Expected 2022)

Undergraduate Students

Honors Theses

- Genevieve Kocoloski (2014-2016)
 \$1500 Project Support
 Berry Summer Thesis Participant (2014) and Fellow (2015-2016)
 American Physiological Society, David S. Bruce Outstanding Undergraduate Abstract Award, 2015
 Current: Certified Physician Assistant Graduate, Brooklyn, NY
- Michael Hudock (2015-2017)
 \$1500 Project Support
 American Physiological Society, David S. Bruce Outstanding Undergraduate Abstract Award, 2016
 American Physiological Society, David S. Bruce Excellence in Undergraduate Research Award, 2016
 Current: Medical Student, Ohio University, Athens, OH
- Elizabeth Kelsch, M.S. (2015-2017)
 \$1500 Project Support
 Berry Summer Thesis Institute Participant (2015) and Fellow (2016-2017)
 American Physiological Society, David S. Bruce Outstanding Undergraduate Abstract Award, 2016
 American Physiological Society, David S. Bruce Excellence in Undergraduate Research Award, 2016
 Current: Clinical Research Coordinator, Medpace, Cincinnati, OH
- Jane Rosmarin (2017 – 2019)
 \$1500 Project Support
 Current: Doctor of Physical Therapy Student, The Ohio State University, Columbus, OH
- Elizabeth Goetz (2017 – 2019)
 \$1130 Project Support
 Current: Medical Student, Marshall University, Huntington, West Virginia
- Megan Taschner (2017 – 2019)
 \$175 Project Support
 Current: Doctor of Physical Therapy Student, University of Pittsburgh, Pittsburgh, PA
- Jenna Sorensen (2017 – 2020)
 \$3000 Project Support
 Berry Summer Thesis Institute Participant (2018)
- Serafino Lagalbo (2018 – 2020)
 \$1500 Project Support
 University of Dayton, College of Arts and Sciences, Dean's Summer Fellowship, 2019
 American Physiological Society, Undergraduate Summer Research Fellowship, 2019
 American Physiological Society, Barbara A. Horwitz and John M. Horowitz Undergraduate Research Award, 2020
- Kiersten Duffy (2019 – 2021)
 \$900 Project Support
 "Effects of Cold Pressor Test on Cerebral Blood Flow and Motor Control" (2021). Stander Symposium Projects. 2334. https://ecommons.udayton.edu/stander_posters/2334

Nicole Hetrick (2020-Present)
 \$1000 Project Support
 University of Dayton, College of Arts and Sciences, Dean's Summer Fellowship, 2021

Eleni Papastratakos (2020-Present)
 \$1500 Project Support

Paige Kompa (2020-Present)
 \$1500 Project Support
 Berry Summer Thesis Participant (2021)
 University of Dayton, College of Arts and Sciences, Dean's Summer Fellowship, 2019
 American Physiological Society, Undergraduate Summer Research Fellowship, 2019

Independent Study/Researchers

Chanelle Brown – NYSP Research, Stander Symposium, Spring 2014
 Ryan Lyn – Research Assistant, Spring 2015
 Mitchell Richuisa – Summer Research Assistant, Summer 2015, Teaching Assistant, HSS 307, Fall 2015
 Erik Myers – Summer Research Volunteer, Summer 2015
 Caleb Holtzmann – Research Assistant, Stander Symposium, Spring 2016
 Paige Morrison – Research Assistant, Stander Symposium, Spring 2016
 Sarah Collins – Research Assistant, co-investigator with Kiersten Duffy
 Will Majercak, Abigail Shahady, and Ciara White – Fitness Testing Assistants
 "Exploration of Correlations in Fitness and Injury Screening Clinic" (2021). Stander Symposium
 Projects. 2326. https://ecommons.udayton.edu/stander_posters/2326

Special Interest Housing

Honors (Kocoloski, Wilson, Niese, Siegel, Maffett), 2016-2017
 Active Living (Haenszel, Maloney, Walsh, Hanson, Michalak), 2016-2017
 Health and Happiness (Jenisch, Yun, Kelly), 2016-2017
 CHAARG (Lenzini, Disco, Marshall, Lloyd, Cagni), 2016-2017
 Body Positive (Mckeown, Pochodylo, Pierce, Richards), 2017-2018
 Flyers for Defense (Gearin, Foster, Carey, Owens, Boh), 2018-2019

Student Organizations

CHAARG, Faculty Sponsor, 2019-Present

Professional Memberships and Societies

Human Anatomy and Physiology Society	2018 - Present
National Association of Advisors for the Health Professions	2017 – Present
The Physiological Society	2009 – 2016
American Physiological Society	2008 – Present
American College of Sports Medicine	2008 – Present

Significant Professional Development and Activities

- Institute on Teaching and Learning, American Physiological Society, Bar Harbor, ME May 2014
 - Writing Across the Curriculum, Learning and Teaching Center, University of Dayton, Dayton, OH Fall 2014
 - George Gopen Writing Workshop and Tutorial Session, University of Dayton, Dayton, OH January 2015
 - Second Year Faculty Retreat, University of Dayton, Dayton, OH February 2015
 - Studio Teaching Fellows, Learning and Teaching Center, University of Dayton, Dayton, OH Spring 2015
 - Active Learning Workshop, Learning and Teaching Center, University of Dayton, Dayton, OH August 2015
 - Female Faculty Forum to Uplift, Support, and Engage (F3USE), University of Dayton, Dayton, OH 2015-Present
- Recipient of 2018 Miryam Award

- Global Education Seminar, Learning and Teaching Center, University of Dayton, Dayton, OH AR Crecelius 18
2015-2016,
- Developing Tomorrow's Innovators: Federal Support for Interdisciplinary Training, University of Dayton, Dayton, OH October 2016
- Leadership UD, University of Dayton, Dayton, OH 2016-2017
- Physiology Majors Interest Group Meeting, American Physiological Society, Michigan State University, East Lansing, MI May 2017
- Study Abroad Facilitator, HSS Study Abroad, Santiago, Chile May-June 2017
- IACT Creativity Across the Curriculum Fellowship, Institute of Applied Creativity for Transformation, University of Dayton, Dayton, OH 2017-2018
- Studio Teaching Fellows, Learning and Teaching Center, University of Dayton, Dayton, OH Spring 2018
- Study Abroad Facilitator, HSS Study Abroad, Lisbon, Portugal and Seville, Spain May-June 2018
- Physiology Majors Interest Group Meeting, American Physiological Society, University of Arizona, Tucson, AZ June 2018
- ACE-Bio Assessment Workshop, Orlando, FL April 2019
- Physiology Majors Interest Group Meeting, American Physiological Society, University of Minnesota, Minneapolis, MN June 2019

Professional Service

Journal Reviewer

Advances in Physiology Education

American Journal of Physiology-Heart and Circulatory Physiology

American Journal of Physiology-Regulatory, Integrative and Comparative Physiology

American Journal of Undergraduate Research

Clinical Journal of Oncology Nursing

European Journal of Applied Physiology

Journal of Applied Physiology

Journal of Physiology

SpringerPlus

Editorial Board

Advances in Physiology Education – Social Media Curator

Symposium Organization/Chair

Data NCARNation.

Chair. Experimental Biology 2015. Boston, MA. Sponsored by: Neural Control and Autonomic Regulation Section (American Physiological Society).

Speakers: Various abstracts presented

Standing on the Edge: Transformational Teaching and Learning Beyond the Classroom Walls.

Chair. Experimental Biology 2016, San Diego, CA. Sponsored by: Teaching of Physiology Section (American Physiological Society)

Speakers: Michael J. Joyner (Mayo Clinic), Patricia A. Halpin (U of New Hampshire-Manchester), Aaron Bunker (Morningside College), Nicole Garneau (Denver Museum of Nature and Science).

Creative Science Communications through Improv.

Co-Chair. Experimental Biology 2017, Chicago, IL. Sponsored by: Communications Committee (American Physiological Society)

Presenters: The Second City Works.

Helping Others See Your Science: A Picture Is Worth a Thousand Words

Co-Chair. Experimental Biology 2020, San Diego, CA. Sponsored by: Communications Committee (American Physiological Society) – Cancelled due to COVID-19 pandemic

Committee Appointments

National Organizations

- Member, Communications Committee American Physiological Society 1/15-1/18
- Member, Steering Committee, Teaching Section, American Physiological Society 1/15-1/18
- Member, Leadership Team, Physiology Majors Interest Group 6/18-Present
- Chair, Communications Committee, American Physiological Society 1/19-1/20

Institutional (University of Dayton)

- Member, University Library Committee 5/14-5/17
- Member, Institutional Review Board 6/14-Present
- Member, Human Resources Advisory Council 7/14-7/17
- Co-Chair, Strategic Visioning Process, Working Group 2: Teach and Learn 7/16-12/16
- Senator, Academic Senate 4/17-5/20, Present
- Chair, Academic Policies Committee 4/17-5/18
- Member, Educational Leadership Council 4/17-5/20
- Member, Academic Advising Task Force 10/17-12/18
- Member, Transfer Credit Task Force 9/18-5/19
- Member, Executive Committee, Academic Senate 4/19-5/20
- Member, University Budget Alignment Steering Committee 1/20-Present
- Member, Common Academic Program Committee 5/20-7/21

Unit-Level (School of Education and Health Sciences)

- Secretary, Faculty Affairs Committee 8/14-5/19
- Member, Strategic Planning Working Group 2 8/17-5/18
- Undergraduate Academic Affairs 5/20-Present
- Facilities Task Force 9/20-Present

Departmental (Health and Sport Science)

- Curriculum Review Committee 3/13-Present
- Internationalization committee 1/14-Present
- Peer Advisory Committee, communications subcommittee 1/16-Present
- Promotion and Tenure Committee 8/20-Present
- Testing and Consultation Task Force 10/20-Present

Other Service

Departmental

- Coordinator, HSS Honors Student Information Sessions, September 2014, 2015
- Participant, Departmental Recruitment Activities, 2013-Present
- Creation of Advising Guide, October 2015
- Search Committee, Assistant Professor, November 2015-May 2016
- Revision of Exercise Physiology Program Website, January 2016
- McCarthy Donation (\$200,000) proposal and spending, Fall 2016
- Revision of DegreeWorks for degree programs, 2016
- Pre-Health Professions, program prerequisite database, coordination, Fall 2016
- Frericks 5K Volunteer, photographer, November 2016
- Search Committee, Assistant Professor, November 2016-March 2017
- Open House presentation development, April 2017

- Google Site creation and development, August 2017
- Frericks 5K Volunteer, body composition assessment, September 2017
- Doris Drees Speaker Organizer and Host, October 2017
- Search Committee, Assistant Professor, September 2017-March 2018
- Open House Laboratory Tour Host and Presenter, Fall 2017-Present
- Search Committee Chair, Director of BSN Program, April 2018-June 2018
- Undergraduate Program Revision, May 2018-Present
- Course Revisions (HSS 465 Professional Seminar), October 2018
- Course Creation (HSS 444 Pharmacology), October 2018
- McCarthy Donation (\$100,000) proposal, July 2019
- Advising guide development, 2019, 2020
- CAP Course Approval Coordinator (HSS 206 Fundamentals of Anatomy and Physiology), February 2021
- Search Committee Co-Chair, Lecturer, March 2021-May 2021

University

- Search Committee, Assistant Director for University Honors Program July-August 2014
- University Honors Program, Thesis Review Committee, 2014-2018
- University Honors Program, Berry Summer Thesis Institute Review Committee, 2014-2017
- Panel Member, Active-Learning Workshop, Learning and Teaching Center, January 2016
- Facilitator, Midterm Instructional Diagnosis, Learning and Teaching Center, March 2015, October 2015, March 2017, October 2017
- Communications Graduate Certificate curriculum and proposal development, Summer 2016
- Miami Valley Hospital/University of Dayton Healthcare Symposium Planning Committee, Spring 2019
- HHMI Driving Change Initiative, Core Leadership Team, Spring 2020-Present
- Global Voices Symposium, Presenter, Spring 2020
- Search Committee, Event Coordinator, School of Education and Health Sciences Feb-Apr 2020
- Wellbeing Undergraduate Certificate curriculum and proposal development, 2020-2021
- Creative Council, IACT GEMnasium, Jan 2021-Present

Professional

- Book Chapter Review, *ACSM Research Methods*, Wolters Kluwer Health, July 2014
- Volunteer Tour Guide, American Physiological Society's Workshop for High School Life Science Teachers and Students at Experimental Biology, April 2014, April 2017
- Lead Coordinator, Physiology Understanding (PhUn) Week partnership with Dayton Early College Academy, November 2014, 2015, 2016, 2018; Antioch School, November 2017; Holy Angels Elementary, 2019
- Contributor, *Physiology: A Student's Self-test Colouring Book*. Global Book Publishing. 2016

Community

- Participant, UD Alumni Mentoring Program, Katherine Gross, 2014-2017
- Science Fair Judge, Trotwood Madison High School, January 2015
- Invited Speaker, FREEFAHL Benefit Concert for Breast Cancer Awareness, Zeta Tau Alpha Sorority, University of Dayton, October 2015
- Invited Speaker, Fellowship Dinner, Maple Tree Cancer Alliance, Dayton OH, November 2015
- Invited Speaker, Student Athletes Breast Cancer Awareness, Dayton OH, October 2017
- Invited Speaker, Supervisor Training, Building Healthy Workplaces, University of Dayton, November 2017
- Hispanic Community Health Fair Co-Chair, October 2017 – Ongoing
- Higher Education Fellow, Dayton Regional STEM Center STEM Fellowship Program, August 2019-April 2020
- Scientist Presentations, Skype a Scientist, April 2020, October 2020, November 2020, March 2021, September 2021
- BioBat Steam Camp – [Career Presentation, November 2020](#)