

# Curriculum Vitae

## S. Tony Wolf, Ph.D.

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### EDUCATION

- Ph.D. Kinesiology (Exercise Physiology), September 2020, The Pennsylvania State University, University Park, PA  
*Advisor: W. Larry Kenney, Ph.D.*
- M.A. Kinesiology (Exercise Science), December 2016, California State University, Fresno, Fresno, CA  
*Advisor: J. Luke Pryor, Ph.D.*
- B.S. Kinesiology (Exercise Science), December 2012, California State University, Fresno, Fresno, CA

### ACADEMIC APPOINTMENTS

- 2023- Assistant Professor  
Director, Integrative Cardiovascular Physiology Laboratory  
Department of Kinesiology, University of Georgia
- 2021-2023 Post-Doctoral Scholar  
Thermal and Microvascular Physiology Laboratory, Department of Kinesiology, The Pennsylvania State University
- 2017-2020 Pre-Doctoral Fellow/Research Assistant  
Thermal and Microvascular Physiology Laboratory, Department of Kinesiology, The Pennsylvania State University
- 2017 Lecturer  
Department of Kinesiology, California State University, Fresno
- 2015-2016 Graduate Assistant  
California State University, Fresno

### HONORS AND AWARDS

#### Fellowships

- 2023 National Institutes of Health (F-32) Post-Doctoral Fellowship, The Pennsylvania State University, University Park, PA

- 2018-2020 National Institutes of Health (T-32) Pre-Doctoral Training Fellowship, The Pennsylvania State University, University Park, PA
- 2017-2018 University Graduate Fellowship, The Pennsylvania State University, University Park, PA

### **Awards**

- 2022 International Conference on Environmental Ergonomics, Best Oral Presentation, Post-Doc, 3<sup>rd</sup> Place
- 2021 Mid-Atlantic Regional Chapter, American College of Sports Medicine Early-Stage Investigator Award
- 2021 Environmental & Exercise Physiology Section CANTROL New Investigator Research Award - American Physiological Society
- 2020 Penn State College of Health and Human Development Limited Endowment Fund for Dissertation Research
- 2019 Penn State Center for Human Evolution and Diversity Seed Grant
- 2018 Penn State Dermatology Marks Endowment Fund
- 2018 American College of Sports Medicine Foundation Doctoral Student Research Grant
- 2016 Graduate with Distinction, California State University, Fresno
- 2016 Graduate Student Research and Creative Activities Support Award, California State University, Fresno

### **GRANTS**

#### **Funded**

- 2023 National Institutes of Health (F32). Characterization of *passive whole-body heat stress responses in obese and non-obese adults*. \$202,746, Principal Investigator.
- 2021-22 American College of Sports Medicine (Mid-Atlantic Chapter). *Characterization of passive whole-body heat stress responses in obese and non-obese adults*. \$1,500, Principal Investigator.
- 2020-21 Penn State Center for Human Evolution and Diversity. *Modulating Role of Vitamin D in Oxidative Stress-Induced Vascular Dysfunction in Darkly-Pigmented African Americans*. \$17,500, Principal Investigator.
- 2019-20 Penn State Dermatology Marks Endowment Fund. *Mechanisms and Interventions Mediating the Role of Ultraviolet Radiation Exposure on Microvascular Endothelial Function*. \$3,000, Principal Investigator
- 2019-20 American College of Sports Medicine Foundation Grant. *Mechanisms and Interventions Mediating the Role of Ultraviolet Radiation Exposure on Microvascular Endothelial Function*. \$5,000, Principal Investigator

## **Submitted**

## **Not Funded**

- 2023-2024 Invited Proposal: American Physiological Society Postdoctoral Fellowship. *Effect of vitamin D on muscle sympathetic nerve activity and blood pressure responses at rest and during static handgrip exercise.* \$50,000, Principal Investigator.
- 2023-25 National Institutes of Health (K99/R00). *Sex-specific mechanistic roles for vitamin D on cutaneous microvascular function in differently-pigmented skin.* \$960,844. Principal Investigator.
- 2023-2024 American Heart Association Career Development Award. *Effects of vitamin D supplementation on endothelial function and blood pressure control in darkly pigmented men and women.* \$231,000, Principal Investigator.

## **SOCIETY MEMBERSHIPS**

- 2017-present American College of Sports Medicine
- 2017-present American Physiological Society
- 2019-present American Heart Association

## **COMMUNITY OUTREACH**

- 2017-18 Physiology Understanding (PhUn) Week, Program sponsored by the American Physiological Society, State College Area High School, State College, PA
- 2016 Sports Science Institute, California State University, Fresno

## **SERVICE TO THE PROFESSION**

### **Committees**

- 2022-2023 Research Committee, Mid-Atlantic Regional Chapter, American College of Sports Medicine

### **Editorial Boards**

- Editorial Board, Journal of Applied Physiology
- Early Career Review Board, American Journal of Physiology – Regulatory, Integrative, and Comparative Physiology

### **Reviewer**

- American Journal of Physiology – Heart and Circulatory Physiology
- Medicine and Science in Sport and Exercise

Experimental Physiology  
American Journal of Clinical Nutrition  
Applied Physiology, Nutrition, and Metabolism  
Nutrients  
Physiological Reports  
International Journal of Exercise Science  
Microvascular Research  
Nutrition, Metabolism, and Cardiovascular Diseases  
The Journal of Primary Prevention

## PUBLICATIONS

1. **Wolf ST**, Cottle RM, Fisher KG, Vecellio DJ, & Kenney WL. Heat stress vulnerability and critical environmental limits for older adults (PSU HEAT Project). Under Review.
2. Ashley CD, Lopez RM, Odera AM, **Wolf ST**, Kenney WL, & Bernard TE. Acclimatization in the context of WBGT-based exposure assessment. Under Review.
3. Bernard TE, Ashley CD, **Wolf ST**, Lopez RM, & Kenney WL. Distribution of upper limit of the prescriptive zone values for acclimatized and unacclimatized individuals. *J Appl Physiol*, 2023. doi: 10.1152/jappphysiol.00724.2022
4. Cottle RM, Fisher KG, **Wolf ST**, & Kenney WL. Onset of cardiovascular drift during progressive heat stress in young adults (PSU HEAT Project). *J Appl Physiol*, 2023. doi: 10.1152/jappphysiol.00222.2023
5. Dillon GA, **Wolf ST**, Williams AC, Kenney WL, & Alexander LM. Nitric oxide-mediated cutaneous microvascular function is not altered in middle-aged-to-older adults following mild SARS-CoV-2 infection: A pilot study. *Physiol Rep*, 2023. doi: [10.14814/phy2.15704](https://doi.org/10.14814/phy2.15704)
6. Fisher KG, Kenney WL, & **Wolf ST**. Seasonal tanning-induced increases in skin pigmentation do not impact nitric oxide-mediated vasodilation of the cutaneous microvasculature. *J Appl Physiol*, 2023. doi: 10.1152/jappphysiol.00118.2023
7. **Wolf ST**, Havenith G, & Kenney WL. Influence of individual characteristics on critical WBGT limits at low and high humidity in healthy young men and women (PSU HEAT). *J Appl Physiol*, 2023. doi: 10.1152/jappphysiol.00657.2022
8. Vecellio DJ, Cottle RM, **Wolf ST**, & Kenney WL. Critical environmental limits for human thermoregulation in the context of a changing climate. *Exerc Sport Mov*, 2023. doi: 10.1249/ESM.0000000000000008
9. Cottle RM, Lichter ZS, Vecellio DJ, **Wolf ST**, & Kenney WL. Core temperature responses to compensable vs. uncompensable heat stress in young adults (PSU HEAT Project). *J Appl Physiol*, 2022. doi: <https://doi.org/10.1152/jappphysiol.00388.2022>
10. **Wolf ST**, Dillon GA, Alexander LM, Jablonski NG, & Kenney WL. Skin pigmentation is negatively associated with both circulating vitamin D concentration and cutaneous

microvascular endothelial function. *Am J Physiol Heart Circ Physiol*, 2022. doi: 10.1152/ajpheart.00309.2022

11. **Wolf ST**, Vecellio DJ, & Kenney WL. Invited Review: Adverse heat-health outcomes and critical environmental limits (PSU HEAT). *Am J Hum Biol*, 2022. doi: 10.1002/ajhb.23801
12. Vecellio DJ, **Wolf ST**, Cottle RM, & Kenney WL. Utility of the Heat Index in defining the upper limits of thermal balance during light physical activity (PSU HEAT), *Int J Biometeorol*, 2022. doi: 10.1007/s00484-022-02316-z
13. **Wolf ST**, Bernard TE, & Kenney WL. Heat exposure limits for young unacclimatized males and females at low and high humidity. *J Occup Environ Hyg*, 2022. doi: 10.1080/15459624.2022.2076859
14. Dillon GA, **Wolf ST**, & Alexander LM. Nitric oxide-mediated microvascular function is not altered in young, otherwise healthy adults following SARS-CoV-2 infection. *Am J Physiol Heart Circ Physiol*, 2022. doi: 10.1152/ajpheart.00602.2021
15. Vecellio DJ, **Wolf ST**, Cottle RM, & Kenney WL. Evaluating the 35°C wet-bulb temperature adaptability threshold for young, healthy adults (PSU HEAT). *J Appl Physiol (1985)*, 2022. doi: 10.1152/jappphysiol.00738.2021
16. Cottle RM, **Wolf ST**, Zachary S. Lichter, & Kenney WL. Validity and Reliability of a Protocol to Establish Human Critical Environmental Limits (PSU HEAT). *J Appl Physiol (1985)*, 2022. doi: 10.1152/jappphysiol.00736.2021
17. **Wolf ST**, Cottle RM, Vecellio DJ, & Kenney WL. Critical environmental limits for young, healthy adults (PSU HEAT). *J Appl Physiol (1985)*, 2022. doi: 10.1152/jappphysiol.00737.2021
18. Berry CW, **Wolf ST**, Cottle RM, Murray B, & Kenney WL. Hydration is more important than exogenous carbohydrate intake during push-to-the finish cycle exercise in the heat. *Front Sport and Act Living*, 2021. doi: 10.3389/fspor.2021.742710
19. **Wolf ST**, Folkerts, MA, Cottle RM, Daanen HAM, & Kenney WL. Metabolism- and sex-specific critical WBGT limits in unacclimatized young adults. *Am J Physiol Regul Integr Compo Physiol*, 2021. doi: 10.1152/ajpregu.00101.2021
20. **Wolf ST** & Kenney WL. Invited Review: Skin pigmentation and vitamin D–folate interactions in vascular function: An update. *Curr Opin Clin Nutr and Metab Care*, 2021. doi: 10.1097/mco.0000000000000788
21. Kenney WL, **Wolf ST**, Dillon GA, Berry CW, & Alexander LM. Invited Review: Temperature regulation during exercise in the heat: insights for the aging athlete. *J Sci Med Sport*, 2021. doi: 10.1016/j.jsams.2020.12.007
22. **Wolf ST**, Jablonski NG, & Kenney WL. Examining “race” in physiology. *Am J Physiol Heart Circ Physiol*, 2020. doi: 10.1152/ajpheart.00698.2020
23. **Wolf ST**, Jablonski NG, Ferguson SB, Alexander LM, & Kenney WL. Four weeks of vitamin D supplementation improves nitric oxide-mediated microvascular function in college-aged African Americans. *Am J Physiol Heart Circ Physiol*, 2020. doi: 10.1152/ajpheart.00631.2020

24. Greaney JL, Stanhewicz AE, **Wolf ST**, & Kenney WL. Thermoregulatory reflex control of cutaneous vasodilation in healthy aging. *Temperature*, 2020. doi: 10.1080/23328940.2020.1832950
25. Berry CW, **Wolf ST**, Murray B, & Kenney WL. Hydration efficacy of a milk permeate-based oral hydration solution. *Nutrients*, 2020. doi: 10.3390/nu12051502
26. **Wolf ST**, Berry CW, & Dillon GD. A role for endothelin-A receptors in altered blood flow and pressor responses during exercise in hypertensive adults. *J Physiol*, 2020. doi: 10.1113/jp279344
27. **Wolf ST**, Kenney LE, & Kenney WL. Ultraviolet radiation exposure, risk, and protection in military and outdoor athletes. *Curr Sports Med Rep*, 2020. doi: 10.1249/jsr.0000000000000702
28. **Wolf ST** & Kenney WL. The vitamin D-folate hypothesis in human vascular health. *Am J Physiol Regul Integr Comp Physiol*, 2019. doi:10.1152/ajpregu.00136.2019
29. **Wolf ST**, Berry CW, Stanhewicz AE, Kenney LE, Ferguson SB, & Kenney WL. Sunscreen or simulated sweat minimizes the impact of acute ultraviolet radiation on cutaneous microvascular function in healthy humans. *Exp Phys*, 2019. doi: 10.1113/ep087688
30. **Wolf ST**, Stanhewicz AE, Clarke MM, Chevront SN, Kenefick RW, & Kenney WL. Age-related differences in water and sodium handling following commercial hydration beverage ingestion. *J Appl Physiol (1985)*, 2019. doi: 10.1152/jappphysiol.01094.2018
31. Clark MM, Stanhewicz AE, **Wolf ST**, Chevront SN, Kenefick RW, & Kenney WL. A randomized trial to assess beverage hydration index in healthy older adults. *Am J Clin Nutr*, 2019. doi: 10.1093/ajcn/nqz009
32. **Wolf ST**, Stanhewicz AE, Jablonski NG, & Kenney WL. Acute ultraviolet radiation exposure attenuates nitric oxide-mediated vasodilation in the cutaneous microvasculature of healthy humans. *J Appl Physiol (1985)*, 2018. doi: 10.1152/jappphysiol.00501.2018
33. Pryor JL, **Wolf ST**, Sforzo G, Swensen T. The effect of betaine on nitrate and cardiovascular response to exercise. *Int J Ex Sci.*, 2017.

## PUBLISHED ABSTRACTS

1. **Wolf ST**, Cottle RM, Vecellio DJ, & Kenney WL. Critical environmental limits for young, healthy adults (PSU HEAT). *Experimental Biology*, 2022.
2. Cottle, RM, **Wolf ST**, Lither ZS, & Kenney WL. Critical environmental limit protocol: validity and reliability (PSU HEAT). *Experimental Biology*, 2022.
3. Vecellio DJ, **Wolf ST**, Cottle RM, & Kenney WL. Suitability of thermal indices in describing heat stress compensability. *Experimental Biology*, 2022.
4. Berry CW, **Wolf ST**, & Kenney WL. Hydration, ad libitum consumption and performance are similar between a milk permeate solution, a traditional sports drink, and water following overnight fluid restriction in recreationally active adults. *Experimental Biology*, 2022.

5. **Wolf ST**, Jablonski NG, Ferguson SB, Alexander LM, & Kenney WL. Skin pigmentation is negatively associated with both circulating vitamin D concentration and cutaneous microvascular endothelial function. *Experimental Biology*, 2021.
6. **Wolf ST**, Greaney JL, Stanhewicz AE, Alexander LM & Kenney WL. The nitric oxide contribution to reflex cutaneous vasodilation is similar when quantified either within or between sites using intradermal microdialysis. *Experimental Biology*, 2020.
7. **Wolf ST**, Greaney JL, Stanhewicz AH, Alexander LM, & Kenney WL. Delayed time course of nitric oxide-dependent reflex vasodilation in aged human skin. *International Conference on Environmental Ergonomics*, 2019.
8. Kenney WL, **Wolf ST**, & Kenney LE. Ultraviolet radiation exposure and human skin health. *Extreme Environmental Physiology*, 2019.
9. **Wolf ST**, Stanhewicz AE, Jablonski NG, Ferguson SB, & Kenney WL. The modulating effects of sunscreen and simulated sweat on ultraviolet radiation-induced microvascular dysfunction in the human cutaneous vasculature. *The Federation of American Societies for Experimental Biology*, 2019.
10. Berry CW, Hill IN, **Wolf ST**, Stanhewicz AE, & Kenney WL. Skin erythema and blood flow responses to acute ultraviolet radiation exposure. *The Federation of American Societies for Experimental Biology*, 2019.
11. Hill IN, **Wolf ST**, Stanhewicz AE, & Kenney WL. Skin erythema and blood flow responses to acute ultraviolet radiation exposure. *Mid-Atlantic Chapter of the American College of Sports Medicine Annual Meeting*, 2018, Harrisburg, PA.
12. Kenney WL, Stanhewicz AE, & **Wolf ST**. Acute UV exposure impairs NO-mediated vasodilation through degradation of the folate metabolite 5-MTHF. *Proceedings of the 9th International Conference on Skin Ageing and Challenges*, 2018.
13. **Wolf ST**, Stanhewicz AE, Garner TB, Jablonski NG, & Kenney WL. Acute ultraviolet radiation exposure attenuates nitric oxide-mediated vasodilation in the cutaneous microvasculature. *Medicine and Science in Sports and Exercise*, 2018.

## PRESENTATIONS

1. **Wolf ST**, Havenith G, & Kenney WL. Influence of individual characteristics on critical WBGT limits at low and high humidity in healthy young men and women (PSU HEAT). *American Physiological Summit*, 2023. Poster.
2. **Wolf ST**. "Race" and skin pigmentation in vascular health. *Europhysiology*, 2022. Copenhagen, DK. Invited Presentation.
3. **Wolf ST**, Cottle RM, & Kenney WL. Influence of individual characteristics on critical WBGT limits at low and high humidity in young adults. *International Conference on Environmental Ergonomics*, 2022. Niagara Falls, Ontario, CA. Oral Presentation.
4. **Wolf ST**. Ultraviolet radiation, skin pigmentation, and vitamin D-folate interactions in cutaneous microvascular function. *American College of Sports Medicine Annual Meeting*, 2022. San Diego, CA, USA. Invited Presentation.
5. Culver MN, Linder BA, Jeong S, Hutchison ZJ, Barnett AM, Fuller-Rowell TE, Grosicki GJ, **Wolf ST**, Robinson AT. The influence of skin pigmentation and vitamin D status on central and peripheral blood pressure and arterial stiffness in young adults. *Vascular*

*Biology and Hypertension Symposium. University of Alabama at Birmingham, 2022. Birmingham, AL, USA. Poster.*

6. Jeong S, Linder BA, Barnett AM, Hutchison ZJ, Fuller-Rowell TE, **Wolf ST**, Grosicki GJ, Robinson AT. The influence of vitamin D status on nocturnal blood pressure dipping in healthy young adults. *Vascular Biology and Hypertension Symposium. University of Alabama at Birmingham, 2022. Birmingham, AL, USA. Poster.*
7. **Wolf ST**. Ultraviolet radiation and Vitamin D-folate metabolism in differently pigmented skin. *Experimental Biology, 2022. Philadelphia, PA, USA. Invited Presentation.*
8. **Wolf ST**, Cottle RM, Vecellio DJ, & Kenney WL. Critical environmental limits for young, healthy adults (PSU HEAT). *Experimental Biology, 2022. Philadelphia, PA, USA. Poster.*
9. **Wolf ST**. "Race" and Skin Pigmentation in Vascular Health. *University of Illinois Chicago, Integrative Physiology Symposium, 2022. Invited Presentation.*
10. **Wolf ST**, Jablonski NG, Ferguson SB, Alexander LM, & Kenney WL. Skin pigmentation is negatively associated with both circulating vitamin D concentration and cutaneous microvascular endothelial function. *Experimental Biology, 2021. Virtual Poster.*
11. **Wolf ST**, Greaney JL, Stanhewicz AE, Alexander LM & Kenney WL. The nitric oxide contribution to reflex cutaneous vasodilation is similar when quantified either within or between sites using intradermal microdialysis. *Experimental Biology, 2020. Virtual Poster.*
12. **Wolf ST**, Greaney JL, Stanhewicz, AE, Alexander LM, & Kenney WL. Delayed time course of nitric oxide-dependent reflex vasodilation in aged human skin. *International Conference on Environmental Ergonomics, 2019. Amsterdam, NL. Oral Presentation.*
13. **Wolf ST**, Stanhewicz AE, Clarke MM, Chevront SN, Kenefick RW, & Kenney WL. Age-related differences in water and sodium handling following commercial hydration beverage ingestion. *Experimental Biology, 2019. Orlando, FL, USA. Poster.*
14. **Wolf ST**, Stanhewicz AE, Jablonski NG, Ferguson SB, & Kenney WL. The modulating effects of sunscreen and simulated sweat on ultraviolet radiation-induced microvascular dysfunction in the human cutaneous vasculature. *Experimental Biology, 2019. Orlando, FL, USA. Poster.*
15. **Wolf ST**, Stanhewicz AE, Jablonski NG, Ferguson SB, & Kenney WL. The modulating effects of sunscreen and simulated sweat on ultraviolet radiation-induced microvascular dysfunction in the human cutaneous vasculature. *Mid-Atlantic Chapter of the American College of Sports Medicine Annual Meeting, 2018. Harrisburg, PA, USA. Oral Presentation.*
16. **Wolf ST**, Stanhewicz AE, Jablonski NG, & Kenney WL. Acute ultraviolet radiation exposure attenuates nitric oxide-mediated vasodilation in the cutaneous microvasculature. *American College of Sports Medicine Annual Meeting, 2018. Minneapolis, MN, USA. Thematic Poster.*
17. **Wolf ST**, Stanhewicz AE, Garner TB, Jablonski NG, Kenney WL. Acute ultraviolet radiation exposure attenuates nitric oxide-mediated vasodilation in the cutaneous microvasculature. *Mid-Atlantic Chapter of the American College of Sports Medicine Annual Meeting, 2017. Harrisburg, PA, USA. Oral Presentation.*



18. **Wolf ST**, Pryor RR, Singh B, Pryor JL. Efficacy of a personalized hydration plan on repeated countermovement jump performance after exercise-heat stress. *American College of Sports Medicine Annual Meeting*, 2017. Denver, CO, USA. Poster.

### **TEACHING EXPERIENCE**

2023-	KINS 4630/4630L	Exercise Physiology w/ Lab
2021-2023	KINES 588	Scientific Writing (Co-Instructor)
2017	KINES 163	Fitness and Wellness
2017	KINES 165	Performance Related Fitness Lab
2015-2016	KINES 121	Body Composition (Co-Instructor)