**ALEXANDER J. ROSENBERG, Ph.D.**

Postdoctoral Fellow

Department of Physiology & Anatomy

University of North Texas Health Science Center (UNTHSC)

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**Education:**

2012-2017 **Doctor of Philosophy (Ph.D.)**, Kinesiology, Nutrition, and Rehabilitation

University of Illinois at Chicago, Chicago, IL

2010-2012 **Master of Science** in Kinesiology

University of Illinois at Chicago, Chicago, IL

2005-2009 **Bachelor of Science** in Exercise Science (Pre-medical track)

Ithaca College, Ithaca, NY

**Professional Experience:**

2018-Present Postdoctoral Fellow, Department of Physiology and Anatomy

University of North Texas Health Science Center, Fort Worth, TX (PI: Caroline A. Rickards, PhD)

Projects:

1. A Novel Approach for Improving Cerebral Tissue Blood Flow and Oxygenation via Pulsatile Perfusion Therapy.
2. Development of a Test for Assessment of Cerebral Vascular Function.

2012-2017 Ph.D. Candidate and Research Assistant; University of Illinois at Chicago (PI: Tracy Baynard, PhD)

Conducted and managed research projects in the Integrative Physiology Laboratory, with a primary focus upon arterial, micro-vascular, and cardiac responses to exercise.

Projects:

1. Multimodal Exercise Training Stimulus in Multiple Sclerosis.
2. Effects of Ageing and Physical Activity on Blood Pressure and Endothelial Function during Acute Inflammation.
3. Sex Specific Differences in Heart and Vessel Function during Hyperglycemia in Heart Failure.
4. Racial Differences in Macrovascular and Microvascular Function Following Acute Antioxidant Supplementation.
5. Gender Disparities and Vascular Function in Chronic Kidney Disease Outcomes: Gender Differences in Endothelial Function and the Role of Endothelial Function as a Predictor of CKD Progression.
6. Cardiovascular & Chemical Exposure Risks in Modern Firefighting.
7. Autonomic response to Low Level of Lower Body Negative Pressure in Down Syndrome.
8. Validity of Seated Measures of Arterial Stiffness.
9. The Effects of Acute Exercise on Cerebral Blood Flow and Cognition in Persons with Multiple Sclerosis.
10. The Effects of Sex and Aging on Cerebral Blood Flow in Response to Acute Resistance Exercise.

2009-2010 Ithaca College Strength and Conditioning Coach – Women’s basketball, softball, and wrestling

2009-2010 YMCA Fitness Staff

2009-2010 Curves Staff Member/Personal Trainer

2009-2010 City Health Club Health and Fitness coordinator/Personal Trainer

**Awards and Honors:**

2018 UNTHSC Research Appreciation Day - 1st Place for Postdoctoral Fellow Oral Presentation

2018 UNTHSC Postdoctoral Research Associate Travel Award

2017 Graduated from the University of Illinois at Chicago, IL, Cum Laude, Ph.D.

2017 Artery Conference Bursary Award Recipient

2017 Graduate College’s Student Presenter’s Travel Award, University of Illinois at Chicago, IL

2017 Health Professional Student Council Travel Grant Award, University of Illinois at Chicago, IL

2016 Artery Conference Bursary Award Recipient

2016 The 2016 North American Artery Young Investigator Award Recipient

2016 Health Professional Student Council Travel Grant Award, University of Illinois at Chicago, IL

2016 Department of Kinesiology & Nutrition Travel Grant, University of Illinois at Chicago, IL

2015 The 2015 North American Artery Young Investigator Award Finalist

2015 Department of Kinesiology & Nutrition Certificate of Recognition for Graduate Student Research, University of Illinois at Chicago, IL

2015 Health Professional Student Council Travel Grant Award, University of Illinois at Chicago, IL

2015 Graduate College’s Student Presenter’s Travel Award, University of Illinois at Chicago, IL

2014 Department of Kinesiology & Nutrition Travel Grant, University of Illinois at Chicago, IL

2012 Graduated from the University of Illinois at Chicago, IL, Cum Laude, Master of Science

2010 Honor Society Member, University of Illinois at Chicago, IL

2005-2009 Presidential Scholarship, Ithaca College, NY

2007-2009 Empire Eight Conference President List of Academic Achievement, Ithaca College, NY

**Publications:**

***Published***

* + 1. **Rosenberg, AJ.,** Lane, AD., Wee, SO., White, DW., Hilgenkamp, T., Fernhall, B., Baynard, T. Healthy Aging and Carotid Performance: Strain Measures and Beta-Stiffness Index. Hypertension Research. In-press: Accepted 2/18/2018.
    2. Kappus, RM., Bunsawat, K., **Rosenberg, AJ.,** Fernhall, B. No Evidence of Racial Differences in Endothelial Function and Exercise Blood Flow in Young, Healthy Males Following Acute Antioxidant Supplementation. Int J Sports Med. 2017 Mar;38(3):193-200. doi: 10.1055/s-0042-119203. Epub 2017 Feb 20. PMID: 28219102.

1. Schroeder, EC., **Rosenberg, AJ.,** Hilgenkamp, TI., White, DW., Baynard, T., Fernhall, B. Effect of Upper Body Position on Arterial Stiffness: Influence of Hydrostatic Pressure and Autonomic Function. J Hypertens. 2017 Dec;35(12):2454-2461. doi: 10.1097/HJH.0000000000001481. PMID: 28704262

***Submitted***

1. Wee, SO., Yan, H., Heffernan, KS., Lane-Cordova, AD., Ranadive, SM., **Rosenberg, AJ.,** White, DW., Fernhall, B. Sex Differences in Synthesized Aortic Hemodynamics using Wave Separation Analysis Following Acute Exercise. International Journal of Sports Medicine.
2. Bunsawat, K., Grigoriadis, G., Schroeder, E., **Rosenberg, AJ.,** Fadel, P., Clifford, P., Fernhall, B., Baynard, T. Preserved Ability to Blunt Sympathetically-Mediated Vasoconstriction in Exercising Skeletal Muscle of Young Obese Humans. Journal of Applied Physiology.

**Manuscripts Publications - In Preparation**

1. **Rosenberg, AJ.,** Wee, SO., Schroeder, E., Bunsawat, K., Grigoriadis, G., Fernhall, B., Baynard, T. The Influence of Aging on Central Artery Stiffness and Cerebral Vascular Function Following an Acute Bout of Resistance Exercise.
2. **Rosenberg, AJ.,** Wee, SO., Schroeder, E., Bunsawat, K., Grigoriadis, G., Fernhall, B., Baynard, T. The Influence of Sex on Central Artery Stiffness and Cerebral Vascular Function Following an Acute Bout of Resistance Exercise.
3. **Rosenberg, AJ.,** Kay, V.L., and Rickards, C.A. The Impact of Acute Central Hypovolemia on Cerebral Hemodynamics: Does Sex Matter?
4. **Rosenberg, AJ**., White, DW., Baynard, T. Arterial Stiffness in Response to Exercise: Differential Effects of Sex.
5. Ricardo, AC, Diab, M., Lash, JP., **Rosenberg, AJ.,** Fernhall, B., Carmona, E., Cohan, J., Gender-related Disparities in Endothelial Function Among Individuals with Chronic Kidney Disease.

**Scientific Abstracts: ORAL Presentations**

1. Rickards, CA., Sprick, JD., Park, FS., **Rosenberg, AJ.**, Anderson GK. Cerebral Blood Velocity and Oxygenation Responses to Hypovolemic Oscillatory Lower Body Negative Pressure. *2018 Cerebral Autoregulation Research Network Meeting, Oxford, UK.*
2. **Rosenberg, AJ.,** Schroeder, EC., Grigoriadis, G., Wee, SO., Griffith, GJ., Fernhall, B., Baynard, T. The Influence of Aging on Central Artery Stiffness and Cerebral Vascular Function Following an Acute Hypertensive Stimulus. *2018 Experimental Biology, San Diego, CA.*
3. **Rosenberg, AJ.,** Kay, VL., Rickards, CA.The Impact of Acute Central Hypovolemia on Cerebral Hemodynamics: Does Sex Matter? *2018 Okanagan Cardiovascular and Respiratory Symposium, BC, Canada.*
4. **Rosenberg, AJ.,** Wee, SO., Schroeder, EC., Bunsawat, K., Grigoriadis, G., Fernhall, B., Baynard, T. Effect of Acute Resistance Exercise on Arterial Hemodynamics and Cerebral Blood Flow Dynamics: Does Sex Matter? *2017 Artery Conference, Pisa, Italy.*
5. **Rosenberg, AJ.,** Wee, SO., Schroeder, EC., Grigoriadis, G., Sandroff, BM., Bunsawat, K., Hilgenkamp, TI., Griffith, GJ., Molt, R., Baynard, T. The Effects of Acute Exercise on Cerebral Blood Flow and Cognition in Persons with Multiple Sclerosis. 2017 *Experimental Biology, Chicago, IL. Abstract: 201. FASEB J April 2017 31:842.4*
6. **Rosenberg, AJ.,** Wee, SO., Schroeder, E., Bunsawat, K., Grigoriadis, G., Fernhall, B., Baynard, T. Effect of acute isokinetic resistance exercise on systemic arterial hemodynamics and cerebral blood flow dynamics: Is there a mismatch? *2016 North American Artery Annual Meeting, Chicago, IL.* *Abstract:* *Artery Research, Vol. 16, p101–102. December 2016.*
7. **Rosenberg, AJ.,** Lane, AD., Bunsawat, K., Wee, SO., Baynard, T.*,* Fernhall, B. The influence of sex and age on arterial function in response to an acute inflammatory stimulus. *2015 Artery Conference, Krakow, Poland. Abstract: Artery Research, Vol. 12, p46. December 2015.*
8. **Rosenberg, AJ.,** Lane, AD., Bunsawat, K., Wee, SO., Kappus, RM., Baynard, T.*,* Fernhall, B. Carotid arterial circumferential strain has a greater association to vascular aging that conventional carotid arterial stiffness. *2015 North American Artery Annual Meeting, Chicago, IL.* *Abstract:* *Artery Research, Vol. 12, December 2015.*
9. **Rosenberg, AJ.,** Wee, SO., Ranadive, S., Lane, AD., Kappus, RM., Fernhall, B. Racial differences in pressure wave separation responses following an 8 week endurance training program. *2013 Midwest American College of Sports Medicine Conference. Merrillville, IN. Abstract: Med Sci Sport Exer 46: 338-339, 2014.*
10. **Rosenberg, AJ.,** Wee, SO., Ranadive, S., Lane, AD., Kappus, RM., Fernhall, B. Racial differences in pressure response following peak exercise: insight from pressure wave separation analysis*. 2013 North American Artery Annual Meeting, Chicago, IL.*
11. **Rosenberg, AJ**., Hu M.,Yan, H., Ranadive, SM., Agiovlasitis, S., Fahs, CA., Atiq, M., Atique, N., Fernhall,B. Arterial stiffness response to exercise in persons with and without Down Syndrome. *2012 Midwest American College of Sports Medicine Conference. Toledo, OH. Abstract: Med Sci Sport Exer 45: 514-514, 2013.*

**Scientific Abstracts: POSTER Presentations**

1. Hibner, BA., Griffith, GJ., Schroeder, EC., **Rosenberg, AJ.,** Hilgenkamp, TI., Bollaert, R., Molt, R., Baynard, T., Fernhall, B. Impact of Aerobic Capacity, Age and Duration of Disease on Arterial Function in individuals with Multiple Sclerosis. *2018 Experimental Biology, San Diego, CA.*
2. Sardeli1, A.V., Gáspari1, A.F., Ferreira1, M.L.V., Santos, L.C.; **Rosenberg, A.J.**, Fernhall, B., Cavaglieri1, C.R., Chacon-Mikahil1, M.P.T. The Influence of Total Load on Cardiac Autonomic Recovery Following Resistance Exercise in Young and Older Adults. *2018 Experimental Biology, San Diego, CA.*
3. Schroeder, EC., **Rosenberg, AJ.**, Grigoriadis, G.,Wee, SO., Fernhall, B., Baynard, T. Differences in Autonomic Recovery Following Maximal Resistance Exercise in Young And Older Adults. *2018*  *Experimental Biology, San Diego, CA.*
4. Grigoriadis, G., **Rosenberg, AJ.**, Wee, SO., Schroeder, EC., Griffith, GJ., Baynard, T. Acute Effect of Aerobic Exercise on Carotid Strain in Individuals with Multiple Sclerosis. *2018 Experimental Biology, San Diego, CA.*
5. **Rosenberg, AJ.,** Schroeder, EC., Grigoriadis, G., Wee, SO., Griffith, GJ., Fernhall, B., Baynard, T. The Influence of Aging on Central Artery Stiffness and Cerebral Vascular Function Following an Acute Hypertensive Stimulus. *2018 Experimental Biology, San Diego, CA.*
6. Sardeli1, A.V., Gáspari1, A.F., Ferreira1, M.L.V., Santos, L.C.; **Rosenberg, A.J.**, Fernhall, B. FACSM, Cavaglieri1, C.R., Chacon-Mikahil1, M.P.T. Cardiovascular Responses To Different Resistance Exercise Intensities In Young And Older Adults. *2018 American College of Sports Medicine Annual meeting, Minneapolis, MN.*
7. Grigoriadis, G., **Rosenberg, AJ.**, Wee, SO., Schroeder, EC., Griffith, GJ., Fernhall, B. FACSM, Baynard, T. FACSM. No Sex Differences in Arterial Stiffness and Hemodynamics Response to Resistance Exercise in Older Individuals. *2018 American College of Sports Medicine Annual meeting, Minneapolis, MN.*
8. Griffith, GJ., **Rosenberg, AJ.,** Grigoriadis, G., Bunsawat, K., Wee, SO., Schroeder, EC., Saed, B.M., Baynard T. FACSM. Cardiometabolic Prediction Equations Overestimate Cardiorespiratory Fitness for Treadmill and Cycle Ergometry in Multiple Sclerosis Patients. *2018 American College of Sports Medicine Annual meeting, Minneapolis, MN.*
9. Wee, SO., Schroeder, EC., Grigoriadis, G., **Rosenberg, AJ.,** Bunsawat, K., Griffith, GJ., Baynard T., Fernhall B. Effects of Acute Aerobic Exercise on Cognitive Function in Individuals with Down Syndrome. *2017 Southwest American College of Sports Medicine, Long Beach, CA.*
10. **Rosenberg, AJ.,** Wee, SO., Schroeder, EC., Grigoriadis, G., Bunsawat, K., Griffith, G., Baynard, T. Effect of Age on Cerebral Blood Flow Dynamics Following Acute Resistance Exercise. *2017 APS Conference: Cardiovascular Aging, New Frontiers and Old Friends.*
11. Grigoriadis, G., **Rosenberg, AJ.**, Wee, SO., Schroeder, EC., Bunsawat, K., Griffith, G., Baynard, T. Sex Differences in Carotid Strain Following Resistance Exercise. *2017 North American Artery Conference. Artery Research, May 2017.*
12. **Rosenberg, AJ.,** Wee, SO., Schroeder, E.C., Grigoriadis, G., Bunsawat, K., Griffith, G., Baynard, T. Effect Of Age On Carotid Artery Circumferential Strain Following Acute Maximal Resistance Exercise. *2017 North American Artery Conference. Artery Research, May 2017.*
13. **Rosenberg, AJ.,** Wee, SO., Schroeder, E.C., Bunsawat, K., Grigoriadis, G., Saed, B.M., Fernhall, B. FACSM, Baynard, T. FACSM. Effects of Sex on Arterial Hemodynamics and Cerebral Blood Flow Dynamics Following Acute Resistance Exercise. *2017 American College of Sports Medicine Annual meeting, Denver, CO.*
14. Grigoriadis, G., **Rosenberg, AJ.**, Wee, SO., Schroeder, EC., Bunsawat, K., Fernhall, B. FACSM, Baynard, T. FACSM. Sex Differences in the Influence of Leg Strength on Arterial Stiffness. *2017 American College of Sports Medicine Annual meeting, Denver, CO.*
15. Wee, SO., **Rosenberg, AJ.,** Bunsawat, K., Griffith, G., Baynard T., Fernhall B. Responses in Arterial Distensibility and Compliance Following Lower Body Negative Pressure Challenge in Individuals with Down Syndrome. *2017 American College of Sports Medicine Annual meeting, Denver, CO.*
16. Griffith, G., Hilgenkamp, TI., **Rosenberg, AJ.,** Grigoriadis, G., Bunsawat, K., Wee, SO., Schroeder, EC., Saed, B.M., Baynard T. FACSM. Treadmill vs. Cycle Ergometry Graded Exercise Test Responses in Multiple Sclerosis Patients. *2017 American College of Sports Medicine Annual meeting, Denver, CO.*
17. Schroeder, EC., Hilgenkamp, TI., **Rosenberg, AJ.,** White, DW., Baynard, T., Fernhall, B. Effect of Upper Body Position on Arterial Stiffness: Influence of Hydrostatic Pressure and Autonomic Function. *2017* *Experimental Biology, Chicago, IL.*
18. Wee, SO., **Rosenberg, AJ.,** Bunsawat, K., Griffith, G., Baynard T., Fernhall B. Difference in Carotid Vascular Conductance in Individuals with Down Syndrome Following Lower Body Negative Pressure Challenge. *2017* *Experimental Biology, Chicago, IL.*
19. Grigoriadis, G., **Rosenberg, AJ.**, Wee, SO., Schroeder, EC., Hilgenkamp, TI., Griffith, G., Baynard T. Effects of Aerobic Capacity on Arterial Stiffness in Individuals with Multiple Sclerosis. *2017* *Experimental Biology, Chicago, IL.*
20. **Rosenberg, AJ.,** Wee, SO., Schroeder, EC., Grigoriadis, G., Sandroff, BM., Bunsawat, K., Hilgenkamp, TI., Griffith, GJ., Molt, R., Baynard, T. The Effects of Acute Exercise on Cerebral Blood Flow and Cognition in Persons with Multiple Sclerosis. *2017* *Experimental Biology, Chicago, IL. FASEB J April 2017 31:842.4*
21. Wee, SO., **Rosenberg, AJ.,** Bunsawat, K., Baynard T., Fernhall B. Effect of Acute Aerobic Exercise on Cerebral Blood Flow and Cognitive Function in Individuals with Down Syndrome. *2016 American Federation of Adapted Physical Activity Conference in Alberta, Canada.*
22. Wee, SO., **Rosenberg, AJ.,** Bunsawat, K., Griffith, G., Baynard T., Fernhall B. Higher Carotid Strain in Individuals with Down Syndrome at Rest and During Hypovolemic Pressure Challenge. *2016 Artery Conference, Copehagen, Denmark. Artery Research, Vol. 16, p63. December 2016.*
23. **Rosenberg, AJ.,** Bunsawat, K., Wee, SO., Baynard, T., Horn, G., Smith, D., Fernhall, B. The Detrimental Effects of Live Firefighting on Arterial Function in Firefighters. *2016 Artery Conference, Copehagen, Denmark. Artery Research, Vol. 16, p62. December 2016.*
24. Schroeder, EC., Hilgenkamp, TI., **Rosenberg, AJ.,** White, DW., Baynard, T., Fernhall, B. Body Mass Index as an Independent Predictor of Change in Arterial Stiffness Parameters with Change in Body Position. *2016 North American Artery Conference. Artery Research, Vol. 16, p95. December 2016.*
25. Wee, SO., **Rosenberg, AJ.,** Bunsawat, K., Griffith, G., Baynard T., Fernhall B. Vascular Function in Individuals with Down Syndrome: Central and Systemic Vascular Function. *2016 North American Artery Conference. Artery Research, Vol. 16, p91–92. December 2016.*
26. Bunsawat K, Kappus RM, **Rosenberg AJ**, Wee SO, Fernhall B, and Baynard T. Parasympathetic Modulation in Aging Adults: The Influence of Body Composition. *2016 American College of Sports Medicine Annual meeting, Boston, MA. Med Sci Sports Exerc 48: 50, 2016.*
27. Grigoriadis G, Wee SO, Griffith G, **Rosenberg AJ**, Bunsawat K, Fernhall B, and Baynard T. Blood Pressure and Wave Separation Analysis: Lower Body Negative Pressure In Individuals With Down Syndrome. *2016 American College of Sports Medicine Annual meeting, Boston, MA. Med Sci Sports Exerc 48: 840, 2016.*
28. **Rosenberg, AJ.,** White, DW., Schroeder, EC., Hilgenkamp, TI., Baynard, T., Fernhall, B. Gravitational effects on clinical assessment of arterial stiffness with cardio-ankle vascular index. *2016 American College of Sports Medicine Annual meeting, Boston, MA. Med Sci Sports Exerc 48: 1018, 2016.*
29. Wee, SO., **Rosenberg, AJ.,** Bunsawat, K., Griffith, G., Baynard T., Fernhall B. Hemodynamic and Peripheral Vascular Conductance in Individuals with Down Syndrome Following Hypovolemic Pressure Challenge. *2016 American College of Sports Medicine Annual meeting, Boston, MA. Med Sci Sports Exerc* 48: 840, 2016.
30. **Rosenberg, AJ.,** White, DW., Schroeder, EC., Hilgenkamp, TI., Baynard, T., Fernhall, B. Height Correction for Carotid Blood Pressure Measurement During Positional Changes Is Important to Account for Gravitational Effects when Assessing Arterial Stiffness. *2016 Experimental Biology, San Diego, CA. FASEB J April 2016 30:763.1.*
31. Wee, SO., **Rosenberg, AJ.,** Bunsawat, K., Griffith, G., Baynard T., Fernhall B. Vascular Responses to Hypovolemic Pressure Challenge in Individuals with Down Syndrome*.* *2016 Experimental Biology, San Diego, CA. FASEB J April 2016 30:763.9.*
32. Kappus, RM., Bunsawat, K., **Rosenberg, AJ.**, Baynard, T., Haus, JM., Phillips, SA., Brown, MD., Fernhall, B.The Effect of Acute Antioxidant Supplementation on Vascular Dysfunction with Aging. *2015 American College of Sports Medicine Annual meeting, San Diego, CA. Med Sci Sports Exerc*. *47(5S): 851, May 2015.*
33. Bunsawat, K., Kappus, RM., **Rosenberg, AJ.**, Shafer, B., Wee, SO., Baynard, T., Brown, MD., Haus, JM., Phillips, SA., Fernhall, B. Autonomic Function During Exercise in Older Adults: the Influence of Antioxidant Supplementation. *2015 American College of Sports Medicine Annual meeting, San Diego, CA. Med Sci Sports Exerc*. *47(5S): 744, May 2015.*
34. **Rosenberg, AJ.,** Bunsawat, K., Kappus, RM., Shafer, B., Wee, SO., Baynard, T., Brown, MD., Haus, JM., Phillips, SA., Fernhall, B. Racial Differences in HRV in Response to an Acute Bout of Forearm Exercise. *2015 American College of Sports Medicine Annual meeting, San Diego, CA. Med Sci Sports Exerc. 47(5S): 161, May 2015.*
35. **Rosenberg, AJ.,** Bunsawat, K., Kappus, RM., Shafer, B., Wee, SO., Baynard, T., Fernhall, B. Influence of age on blood pressure variability and baroreceptor sensitivity in response to acute exercise. *2015 Experimental Biology, Boston, MA. FASEB J April 2015 29:LB672*
36. Lane A, **Rosenberg A**, Kappus R, Baynard T, Phillips S, Woods J, Motl R, and Fernhall B. Sex affects vascular responses to acute inflammation in older adults. *2014 Experimental Biology, San Diego, CA. FASEB J April 2014 28:852.2*
37. **Rosenberg, AJ.,** Lane, AD., Wee, SO., Kappus, RM., Baynard, T.*,* Fernhall, B. Age-dependent differences in carotid artery circumferential strain measurements, independent of blood pressure, aerobic fitness capacity, gender and conventional non-invasive parameters of vascular stiffness. *2014 Artery Conference, Maastricht, Netherlands. Artery Research, Vol. 8, Issue 4, p137, December 2014.*
38. Bunsawat, K., **Rosenberg, AJ.**, Wee, SO., Kappus, R., Hultgren, K., Fernhall, B., Baynard, T.Effects of Caffeine on Cardiac Autonomic Function During Exercise Recovery. *2014 American College of Sports Medicine Annual Meeting, Orlando, FL. Med Sci Sports Exerc*. 46(5S): 327, *May 2014.*
39. Wee, SO., **Rosenberg, AJ.,** Ranadive, S., Lane, AD., Kappus, RM., Yan, H., Fernhall, B. Sex Differences in Hemodynamic Responses Following 8 Weeks of Aerobic Exercise Training : Wave Separation Analysis. *2014 American College of Sports Medicine Annual Meeting, Orlando, FL. Med Sci Sport Exer 46: 666-666, 2014.*
40. **Rosenberg, AJ.,** Wee, SO., Ranadive, S., Lane, AD., Kappus, RM., Fernhall, B. Racial differences in pressure wave separation responses following an 8 week endurance training program. *2014 American College of Sports Medicine Annual Meeting, Orlando, FL. Med Sci Sport Exer 46: 338-339, 2014.*
41. Wee, SO, Lane AD, Bunsawat K, **Rosenberg AJ**, Fernhall B. Sex Differences in Hemodynamic Responses Following Acute Inflammation: Wave Separation Analysis. *2014 North American Artery Annual Meeting, Chicago, IL. Artery Research* 8(4): 174-175, *December 2014.*
42. **Rosenberg, AJ.,** Lane, AD., Wee, SO., Kappus, RM., Baynard, T.*,* Fernhall, B. Carotid strain does not explain sex differences in blood pressure. *2014 North American Artery Annual Meeting, Chicago, IL. Artery Research, Vol. 8, Issue 4, p176–177. December 2014.*
43. Bunsawat, K., **Rosenberg, AJ.**, Wee, SO., Kappus, R., Hultgren, K., Fernhall, B., Baynard, T.Effects of Caffeine Supplementation on the Relationship between Total Arterial Compliance and Hemodynamic Parameters during Exercise Recovery. *2013 North American Artery Annual Meeting, Chicago, IL.*
44. Wee, SO., **Rosenberg, AJ.,** Ranadive, S., Lane, AD., Kappus, RM., Fernhall, B. Sex Differences in Post Exercise Hypotension. *2013 North American Artery Annual Meeting, Chicago, IL.*
45. **Rosenberg, AJ**., Hu M.,Yan, H., Ranadive, SM., Agiovlasitis, S., Fahs, CA., Atiq, M., Atique, N., Fernhall,B. Arterial stiffness response to exercise in persons with and without Down Syndrome. *2013 American College of Sports Medicine Annual Meeting, Indianapolis, IN. Med Sci Sport Exer 45: 514-514, 2013.*

**Funding History:**

***Submitted Research Support***

2018 F32 NIH Postdoctoral Individual National Research Service Award

2018 ACSM Research Endowment Grant

2016 Paul D. Doolen Graduate Scholarship for the Study of Aging, University of Illinois at Chicago, IL

**Professional Development:**

2018- April 2018 Experimental Biology Conference, “*Mentoring on the Go”* program mentee, sponsored by the Exercise and Environmental Physiology Section (Mentor Dr. Scott Powers)

2018- January “Time Management Basics” Workshop by Dr. Susan R. Johnson, Your Future in Science Seminar, University of Illinois at Chicago.

2017- November “Tales from the Trenches: Lessons learned while navigating the first years of your new faculty position” Workshop by Dr. Henar Cuervo Grajal and Dr. Deepika Laddu, Your Future in Science Seminar, University of Illinois at Chicago

2017- August “Climbing Out of the Trainee Pool: Moving from Dependence to Independence” Workshop by Dr. Gary McDowell, Your Future in Science Seminar, University of Illinois at Chicago

2016- November Exercise is Medicine (EIM) ambassador training workshop at 2016 ACSM Midwest conference

2016- December “Survival Strategies for Graduate Students and Post Docs Facing Inevitable Research Ethics Challenges” Workshop by Dr. David Wright, Your Future in Science Seminar, University of Illinois at Chicago

2015- September “What Got You Here Won't Get You There” Workshop by Dr. Philip S. Clifford, Your Future in Science Seminar, University of Illinois at Chicago

2015- JanuaryManuscript Writing Workshop at University of Illinois at Chicago, facilitated by the President of Bioscience Writers Dr. Susan Marriott from Baylor College of Medicine

**Teaching Experience:**

**University of Illinois at Chicago, IL**

***Graduate Teaching Assistant***

2014- 2016 Department of Kinesiology & Nutrition, *Introduction to Kinesiology (KN 152)*

2 laboratory sections.Enrollment: 25 students/section

Guest Lectured: 1) Temperature Regulation Lecture – Spring 2015

2) Body Composition Lecture – Fall 2015

3) Respiration and Ventilation Lecture – Spring 2016

2013-2014 Department of Kinesiology & Nutrition, *Advanced Exercise Physiology (KN 452)*

2 laboratory sections.Enrollment: 25 students/section.

Guest Lectured: 1) Measurement of Body Composition Lecture - Spring 2014

2012-2013 Department of Kinesiology & Nutrition, *Muscle Physiology (KN 441)*

2011-2012 Department of Kinesiology & Nutrition, Anatomy and Physiology High School/College Seminars Laboratory Instructor*,* Enrollment: 25-50

2010-2012 Department of Kinesiology & Nutrition, *Anatomy and Physiology (KN 251 & KN 252)*.

2 Cadaver Laboratory sections.Enrollment: 30 students/section

***Graduate Student Mentoring***

2016-2018 Pooja Iyer – University of Illinois at Chicago, Physical Therapy Master Student. Master’s Thesis Project: Influence of Transcranial Direct Current Stimulation Polarity on Upper and Lower Limb Neural Conductivity.

***Undergraduate Student Mentoring***

2016 Hernán Méndez – University of Illinois at Chicago, Summer Research Opportunities Program Awardee. Project: Sex Differences in Cardiovascular Function following Acute Lower Body Resistance Exercise

2014-2015 Kamila Bafia – University of Illinois at Chicago, undergraduate student

2013-2014 Jeremy Shoup – University of Illinois at Chicago, Helen Barton Scholarship Awardee. Project: Effect of Multi-modal Exercise Training program on Gait Kinematics in persons with Multiple Sclerosis.

**Service:**

***Service to the Department***

2018Member of Student/Trainee News section committee for the bi-annual department newsletter, Department of Physiology & Anatomy, UNTHSC

***Service to the Profession***

2016 ACSM Annual Conference - Student Moderator for Cardiac II Thematic Poster Session

**Journal Reviewer**

Journal of Human Hypertension (1 paper)

Medicine and Science in Sports and Exercise (1 paper)

Medicine and Science in Sports and Exercise (1 paper supervised by Dr. Caroline Rickards)

International Journal of Sports Medicine (1 paper supervised by Dr. Craig Horswill)

***Service to the Community***

2016- Organize and Facilitate a Week Long Health and Fitness Workshop as Visiting Health Professional at Camp Ramah, Eagle River, Wisconsin

2008-2009 Big Brother and Summer Activities Chaperone for Children With Life Threatening Illness, Chai Lifeline Organization, Chicago, Illinois

2008-2009 Volunteer atHabitat for Humanity, Ithaca, New York

2008 Volunteer at Deerfield High School Summer Wrestling Camp, Deerfield, Illinois

2007-2008 Volunteer at American Red Cross blood Drives and Food Bank, Ithaca, New York

**Professional Memberships and Certifications:**

2018- Advanced Cardiac Life Support (ACLS) training, American Heart Association

2018- Texas Chapter, American College of Sports Medicine

2014- American Heart Association

2013- American Physiology Society

2013- North American Artery Society

2012-2017 Midwest Chapter American College of Sports Medicine

2010- American College of Sports Medicine (ACSM)

2009- National Strength & Conditioning Association, Certified Strength & Conditioning Specialist (CSCS)

2008- Member of the National Strength and Conditioning Association

2008- Scuba certification from National Aquatic Services

**Extracurricular Activities:**

2005-2009 Varsity Wrestling Team, Ithaca College, NY

2007-2009 Captains Counsel of Wrestling Team, Ithaca College, NY

2007-2009 Member of the Exercise Professional Majors Club, Ithaca College, NY