

Curriculum Vitae
Demetra Demetriou Christou, Ph.D.

September 2015

Office address

Department of Applied Physiology and Kinesiology
University of Florida
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Gainesville, FL 32611
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Education and Research Training

- 2000-2006 **Postdoctoral Research Training**
Research focus: *Human Cardiovascular Physiology of Aging*
Department of Integrative Physiology
University of Colorado at Boulder
Mentor: Douglas R. Seals, Ph.D.
- 2000 **Doctor of Philosophy**
Major area of study: *Exercise Physiology and Body Composition*
Department of Kinesiology
University of Illinois at Urbana-Champaign
Doctoral Advisor: Richard A. Boileau, Ph.D.
- 1998 **Master of Science**
Major area of study: *Exercise Physiology*
Department of Kinesiology
University of Illinois at Urbana-Champaign
MS Thesis Advisors: Richard A. Boileau, Ph.D & Mary H. Slaughter, Ph.D.
- 1994 **Bachelor of Science, Cum Laude.**
Major area of study: *Exercise Physiology and Cardiac Rehabilitation*
Department of Health and Exercise Science
Minor in *Biofeedback*
Department of Psychology
Truman State University

Professional Positions

2010-date	Assistant Professor	Department of Applied Physiology and Kinesiology University of Florida Gainesville, Florida
2010-date	Director	Integrative Cardiovascular Physiology Laboratory University of Florida Gainesville, Florida
2008-2010	Faculty Member	Intercollegiate Faculty of Nutrition Texas A&M University College Station, Texas
2007-2010	Assistant Professor	Department of Internal Medicine Division of Cardiology Texas A&M University Health Science Center College Station, Texas
2006-2010	Assistant Professor	Department of Health and Kinesiology Texas A&M University College Station, Texas
2006-2010	Director	Integrative Cardiovascular Physiology Laboratory Texas A&M University College Station, Texas
2006-2010	Affiliate Member	Institute for Obesity Research and Program Evaluation Texas A&M University College Station, Texas
2006-2010	Faculty Member	Cardiovascular Research Institute College of Medicine Texas A&M Health Sciences Center College Station, Texas
2000-2006	Research Associate	Integrative Physiology of Aging Laboratory Department of Integrative Physiology University of Colorado at Boulder, Boulder, Colorado

Research Grant Funding

Pending

\$412,500

R21 (Role: PI)

4/1/2015-3/31/2017

National Institutes of Health

Submitted on 6/2014

Endothelial Dysfunction in Older Adults with Type 2 Diabetes: Effect of Exercise Training

Application scored at 11%ile for 1st submission.

\$799,358

VA Clinical Sciences (Role: Co-I, PI: M Segal)

04/01/2016-03/31/2021

R&D Merit Award

Submitted on 09/2015

Frequent, Low-Dose Erythropoietin: A Mechanistic Approach to Mitigate Adverse Cardiovascular Effects of Erythropoietin Therapy in Patients with Chronic Kidney Disease

Active

Extramural Funding

\$401,109

NIA R21 (Role: PI*)

09/30/2013-06/30/2017 (no cost extension)

National Institutes of Health

Ankle Dorsiflexion Splinting Enhances Endothelial Function of Aged Leg Muscles

**This is a multiple PI grant.*

Intramural Funding

\$83,000

DSR Opportunity Fund (Role: Co-I, PI: L Hayward)

07/01/14 - 06/30/2016

University of Florida

Developing a Novel Non-invasive Non-contact Method for Cardiorespiratory Monitoring of Small Rodents

Completed

Completed Extramural Funding

\$125,526

NIA R03 (Role: PI)

07/01/08-08/31/12 (no cost extension)

National Institutes of Health

Endothelial Dysfunction in Older Adult Humans with the Metabolic Syndrome

\$140,000

Beginning Grant-in-Aid (Role: PI)

07/01/08 - 07/30/10

American Heart Association

Role of Mineralocorticoid Receptors in Endothelial Dysfunction in Older Adults with Metabolic Syndrome

Completed Intramural Funding

\$4,881

Huffines Institute Faculty Research Grants (Role: PI)

2008

Texas A&M University

Effect of Xanthine Oxidase Inhibition on Vascular Endothelial Function in Individuals with Metabolic Syndrome

Publications

In Review

1. Hwang MH, Yoo JK, Luttrell M, Kim HK, Meade T, English M, Talcott S, Jaffe I, **Christou** DD. Acute effect of mineralocorticoid receptor antagonism on vascular function in healthy older adults. *Experimental Gerontology*, in review.

Published

26. Hwang MH, Yoo JK, Luttrell M, Meade T, English M, **Christou** DD. Effect of selective mineralocorticoid receptor blockade on flow-mediated dilation and insulin resistance in older adults with metabolic syndrome. *Metabolic Syndrome and Related Disorders*, in Press. Impact factor: 1.976.
25. Hayward LF, Hampton EE, Ferreira LF, **Christou** DD, Yoo JK, Hernandez ME, Martin EJ. Chronic heart failure alters orexin and melanin concentrating hormone but not corticotrophin releasing hormone-related gene expression in the brain of male Lewis rats. *Neuropeptides*, 2015, in Press. Impact factor: 2.546.
24. Min K, Kwon O, Smuder AJ, Wiggs MP, Sollanek K, **Christou** DD, Yoo JK, Hwang MH, Szeto HH, Kavazis AN, Powers SK. Increased mitochondrial emission of reactive oxygen species and calpain activation are required for doxorubicin-induced cardiac and skeletal muscle myopathy. *Journal of Physiology*, 593 (8): 2017-36, 2015. Impact factor: 4.544.
23. Yoo JK, Hwang MH, Kim HK, Luttrell M, Meade T, English M, Segal M, **Christou** DD. Higher levels of adiponectin in vascular endothelial cells are associated with greater brachial artery flow-mediated dilation in older adults. *Experimental Gerontology*, 63: 1-7, 2015. Impact factor: 3.529.

22. Empinado HM, Deevska GM, Nikolova-Karakashian M, Yoo, JK, **Christou** DD, Ferreira LF. Diaphragm dysfunction in heart failure is accompanied by increases in neutral sphingomyelinase activity and ceramide content. *European Journal of Heart Failure*, 16(5): 519-525, 2014. Impact factor: 6.577.
21. Hwang MH, Yoo JK, Kim HK, Hwang CL, Mackay K, Hemstreet O, Nichols W, **Christou** DD. Validity and reliability of aortic pulse wave velocity and augmentation index determined by the new cuff-based SphygmoCor Xcel. *Journal of Human Hypertension*, 1-7, 2014. Impact factor: 2.692.
20. Nichols WW, Petersen JW, Denardo SJ, **Christou** DD. Arterial stiffness, wave reflection amplitude and left ventricular afterload are increased in overweight Individuals. *Artery Research*, 7: 222-229, 2013.
19. Hwang MH, Yoo JK, Luttrell M, Kim HK, Meade T, English M, Segal M, **Christou** DD. Mineralocorticoid receptors modulate vascular endothelial function in human obesity. *Clinical Science*, 125: 513-520, 2013. Impact factor: 5.629.
18. Hwang MH, Yoo JK, Luttrell M, Kim HK, Meade T, English M, Nichols W, **Christou** DD. Role of mineralocorticoid receptors in arterial stiffness in human aging. *Experimental Gerontology*, 48: 701-704, 2013. Impact factor: 3.529.
17. **Christou** DD, Pierce GL, Walker AE, Hwang MH, Yoo JK, Luttrell MJ, Meade TH, English MD, Seals DR. Vascular smooth muscle responsiveness to nitric oxide is reduced in healthy adults with increased adiposity. *American Journal of Physiology: Heart and Circulatory Physiology*, 303:H743-H750, 2012. Impact factor: 4.012.
16. Muller-Delp JM, Gurovich AN, **Christou** DD, Leeuwenburgh C. Redox balance in the aging microcirculation: new friends, new foes, and new clinical directions. *Microcirculation*, 19(1):19-28, 2012. Impact factor: 2.263.
15. Silver A, **Christou** DD, Donato AJ, Beske S, Moreau K, Seals DR. Protein expression in vascular endothelial cells obtained from human peripheral arteries and veins. *Journal of Vascular Research*, 47:1-8, 2010. Impact factor: 2.443.
14. McNeal CJ, Wilson DP, **Christou** D, Bush RL, Shepherd LG, Santiago J. The use of surrogate vascular markers in youth at risk for premature cardiovascular disease. *Journal of Pediatric Endocrinology and Metabolism*, 22(3):195-211, 2009. Impact factor: 0.711.

13. **Christou** DD and Seals DR. Decreased maximal heart rate with aging is related to reduced β -adrenergic responsiveness, but is largely explained by a reduction in intrinsic heart rate. *Journal of Applied Physiology*, 105: 24-29, 2008. Impact factor: 3.434.
12. Silver A, Beske S, **Christou** DD, Donato A, Moreau K, Eskurza I, Gates PE, Seals DR. Overweight and obese humans demonstrate increased vascular endothelial NAD(P)H oxidase-p47^{phox} expression and evidence of endothelial oxidative stress. *Circulation*, 115: 627-637, 2007. Impact factor: 14.948.
11. **Christou** DD, Gentile CL, DeSouza CA, Seals DR, Gates PE. Fatness is a better predictor of cardiovascular disease risk factor profile than aerobic fitness in healthy men. *Circulation*, 112: author reply, e253-e254, 2005. Impact factor: 14.948.
10. **Christou** DD, Gentile CL, DeSouza CA, Seals DR, Gates PE. Fatness is a better predictor of cardiovascular disease risk factor profile than aerobic fitness in healthy men. *Circulation*, 111: 1904-1914, 2005. Impact factor: 14.948.
9. **Christou** DD, Jones PP, Jordan J, Diedrich A, Robertson D, Seals DR. Women have lower tonic autonomic support of arterial blood pressure and less effective baroreflex buffering than men. *Circulation*, 111: 494-498, 2005. Impact factor: 14.948.
8. **Christou** DD, Jones PP, Pimentel A, & Seals DR. Increased abdominal-to-peripheral fat distribution contributes to altered autonomic-circulatory control with human aging. *American Journal of Physiology Heart and Circulatory Physiology*, 287: H1530-H1537, 2004. Impact factor: 4.012.
7. Bell C, Day D, Jones PP, **Christou** DD, Petitt DS, Osterberg K, Melby CL, Seals DR. High energy flux mediates the tonically augmented β -adrenergic support of resting metabolic rate in habitually exercising older adults. *Journal of Clinical Endocrinology and Metabolism*, 89: 3573-3578, 2004. Impact factor: 6.31.
6. Gates PE, Gentile C, Seals D, **Christou** D. Adiposity contributes to differences in left ventricular structure and diastolic function with age in healthy men. *Journal of Clinical Endocrinology and Metabolism*, 89(3): author reply, 1485-6, 2004. Impact factor: 6.31.
5. Gates PE, Gentile C, Seals D, **Christou** D. Adiposity contributes to differences in left ventricular structure and diastolic function with age in healthy men. *Journal of Clinical Endocrinology and Metabolism*, 88(10): 4884-90, 2003. Impact factor: 6.31.

4. Layman DK, Boileau RA, Erickson DJ, Painter JE, Shiue H, Sather C, **Christou D**. Reduced ratio of dietary carbohydrate to protein improves body composition and blood lipid profiles during weight loss in adult women. *Journal of Nutrition*, 133, 2, 411-417, 2003. Impact factor: 4.196.
3. **Christou D**, Jones P, Seals D. Baroreflex buffering in sedentary and endurance exercise-trained healthy men. *Hypertension*, 41: 1219-1222, 2003. Impact factor: 7.632.
2. Jones P, **Christou D**, Jordan J, Seals D. Baroreflex buffering is reduced with age in healthy men. *Circulation*, 107: 1770-1774, 2003. Impact factor: 14.948.
1. Boileau RA, McAuley E, **Demetriou D**, Devabhaktuni N, Dykstra GL, Katula J, Nelson J, Pascale A, Pena M, Talbot H-M. Aerobic exercise training and cardiorespiratory fitness in older adults: A Randomized Control Trial. *Journal of Aging and Physical Activity*, 7: 374-385, 1999. Impact factor: 1.411.

Published Abstracts and Presentations

48. Ferreira LF, Coblenz PD, Ahn B, Patel N, Yoo JK, **Christou DD** (2015). Mitochondrial-targeted antioxidant treatment prevents elevation in diaphragm mitochondrial reactive oxygen species and weakness in chronic heart failure. *FASEB Journal*, 29: 826.12, 2015. Presented at the 2015 Experimental Biology Annual Meeting, Boston, Massachusetts.
47. Hotta K, Behnke BJ, Christou DD, Ghosh P, Maher P, Kurien D, Verma R, Muller-Delp J (2014). Effects of muscle shortening on endothelium-dependent vasodilation and skeletal muscle blood flow of aged rats. *Circulation*, 130: A12490. Presented at the 2014 American Heart Association Annual Meeting, Chicago, Illinois.
46. **Christou DD**, Hwang MH, Yoo JK, Kim HK, Hwang CL, Mackay KR, Hemstreet O, Nichols WW (2013). Validity and Reliability of Aortic Pulse Wave Velocity and Augmentation Index Determined by the New Cuff-based SphygmoCor Xcel. Presented at the 2013 UF Department of Medicine Research Day.
45. Kim HK, Hwang MH, Yoo JK, Luttrell MJ, Meade TH, English MW, **Christou DD** (2013). Acute Mineralocorticoid Receptor Blockade Leads to Decreased Vascular Endothelial Function in Healthy Older Adults. *FASEB Journal*, 27:1165.23, 2013. Presented at the 2013 Experimental Biology Annual Meeting, Boston, Massachusetts.
44. Yoo JK, Hwang MH, Kim HK, Luttrell MJ, Meade TH, English MW, **Christou DD** (2013). Vascular Endothelial Cell Protein Expression of Adiponectin is Related

- with Vascular Endothelial Function in Healthy Older Adults. *FASEB Journal*, 27:901.9, 2013. Presented at the 2013 Experimental Biology Annual Meeting, Boston, Massachusetts.
43. **Christou** DD, Hwang MH, Walker AE, Zigler M, Seals DR (2013). Angiotensin II Receptor Signaling Modulates Vascular Smooth Muscle Sensitivity to Nitric Oxide in an Adiposity-specific Manner in Healthy Adults. *FASEB Journal*, 27:1165.22, 2013. Presented at the 2013 Experimental Biology Annual Meeting, Boston, Massachusetts.
42. Hwang CL, Hwang MH, Yoo JK, Kim HK, Mackay KR, Hemstreet O, Vasconez E, Jacobs K, Nichols WW, **Christou** DD (2013). Relations of aortic pulse wave velocity and augmentation index assessed by the new brachial cuff SphygmoCor Xcel with other arterial stiffness measures. *FASEB Journal*, 27:683.7, 2013. Presented at the 2013 Experimental Biology Annual Meeting, Boston, Massachusetts.
41. Hwang MH, Yoo JK, Kim HK, Hwang CL, Mackay K, Hemstreet O, Vasconez E, Jacobs K, Nichols WW, **Christou** DD (2013). Validity, intra- and inter-test reliability of arterial stiffness and wave reflection measured by the new brachial cuff SphygmoCor Xcel. *FASEB Journal*, 27:683.2, 2013. Presented at the 2013 Experimental Biology Annual Meeting, Boston, Massachusetts.
40. Hayward LF, Dickerson EE, Ferreira LF, Yoo JK, **Christou** DD (2013). Chronic Heart Failure in Male Lewis Rats Alters Corticotropin Releasing Hormone Receptor-2 mRNA Expression in Both Cardiac and Brain Tissue. *FASEB Journal*, 27:697.14, 2013. Presented at the 2013 Experimental Biology Annual Meeting, Boston, Massachusetts.
39. **Christou**, DD, Yoo JK, Hwang MH, Luttrell MJ, Kim HK, Meade TH, English MW (2012). Mineralocorticoid Receptor Blockade Does Not Result in Arterial Destiffening in Healthy Older Adults. *Circulation*, 126: A22474, 2012. Invited presentation at the Best of American Heart Association (AHA) Specialty Conferences: Best of HBPR, 2012 AHA Annual Meeting, Los Angeles, California.
38. **Christou**, DD, Yoo JK, Hwang MH, Luttrell MJ, Kim HK, Meade TH, English MW (2012). Mineralocorticoid Receptor Blockade Does Not Result in Arterial Destiffening in Healthy Older Adults. Presented at the 2012 AHA High Blood Pressure Research Annual Meeting, Washington DC.

37. Ferreira LF, Deevska GM., Empinado H, Nikolova-Karakashian M, Yoo JK, **Christou** DD (2012). Heart Failure Increases Neutral Sphingomyelinase Activity and Ceramide Content in Rat Diaphragm. *FASEB Journal*, 26:1075.13, 2012.
36. **Christou** DD, Pierce GL, Seals DR (2011). Vascular Smooth Muscle Responsiveness to a Nitric Oxide Donor is Impaired in Healthy Adults with Increased Adiposity. *Circulation*, 124: A17226, 2011. Presented at the 2011 American Heart Association Annual Meeting, Orlando, Florida.
35. **Christou** DD, Moreau KL, Seals DR. (2011). Higher Levels of Leisure-time Physical Activity and Aerobic Fitness are Related to Greater Vascular Endothelial Function Independent of Age and Sex. Presented at the 2011 7th International Conference on Kinesiology and Exercise Sciences Athens, Greece.
34. Hwang MH, Yoo JK, Luttrell MJ, Cernosek MM, Meade TH, English MW, **Christou** DD (2011). Mineralocorticoid Receptor Blockade Increases Carotid Intima-media Thickness in Older Adults with Metabolic Syndrome. *Medicine and Science in Sports and Exercise*, Vol 43, 5, Suppl. S514, 2011. Presented at the 2011 American College of Sports Medicine Annual Meeting, Denver, Colorado.
33. Yoo JK, Hwang MH, Luttrell MJ, Cernosek MM, Meade TH, English MW, **Christou** DD (2011). Mineralocorticoid Receptor Blockade Does Not Reduce Pulse Wave Velocity in Older Adults with Metabolic Syndrome. *Medicine and Science in Sports and Exercise*, Vol 43, 5, Suppl. S515, 2011. Presented at the 2011 American College of Sports Medicine Annual Meeting, Denver, Colorado.
32. **Christou** DD, Hwang MH, Yoo JK, Luttrell MJ, Cernosek MM, Meade TH, English MW (2011). Effect of Acute Mineralocorticoid Receptor Blockade on Flow-mediated Dilation in Middle-aged and Older Adults with Metabolic Syndrome. *Journal of Diabetes*, vol 3, Suppl. 1, 2011. Presented at the 4th International Congress on Prediabetes and Metabolic Syndrome, Madrid, Spain.
31. Yoo JK, Hwang MH, Luttrell MJ, Cernosek MM, Meade TH, English MW, **Christou** DD (2011). Mineralocorticoid Receptor Blockade does not Affect Arterial Compliance in Middle-aged and Older Adults with and without Metabolic Syndrome. *FASEB Journal*, 25: 1b480, 2011. Presented at the 2011 Experimental Biology Annual Meeting, Washington D.C.
30. Hwang MH, Yoo JK, Luttrell MJ, Cernosek MM, Meade TH, English MW, **Christou** DD (2011). Mineralocorticoid Receptor Blockade does not Improve Vascular Endothelial Function in Older Adults with Metabolic Syndrome.

- FASEB Journal*, 25: 821.45, 2011. Presented at the 2011 Experimental Biology Annual Meeting, Washington D.C.
29. **Christou** DD, Eskurza I, Silver AE, Beske SD, Gates PE, Walker A, Connell M, Seals DR, Pierce GL (2009). The Relation between Body Fatness and Vascular Endothelial Function in Healthy Adults is Dependent on Age and Sex. Presented at the Keystone Symposia on Molecular and Cellular Biology joint meeting on Dissecting the Vasculature: Function, Molecular Mechanisms and Malfunction, and Complications of Diabetes and Obesity. Vancouver, Canada.
 28. Gates PE, **Christou** DD, Tanaka H, Seals DR (2008). Plasma low density lipoprotein-cholesterol scores within the normal range predict large artery compliance. Presented at the 2008 Annual British Microcirculation Society Meeting, London, United Kingdom.
 27. **Christou** DD, Seals DR (2006). Decreased intrinsic heart rate and α -adrenergic responsiveness contribute to the decline in maximal heart rate with human aging. *Circulation*, 114, 18, II-310, 2006. Presented at the 2006 American Heart Association Annual Meeting, Chicago, Illinois.
 26. Silver AE, **Christou** DD, Beske SD, Moreau KL, Eskurza I, Gates PE, Seals DR (2006). Framingham Risk Score, serum lipids and insulin resistance are related to vascular endothelial expression of proteins involved in nitric oxide production, oxidative stress and inflammation in adult humans. *Arterioscler Thromb Vasc Bio*, 26(5): P259, May 2006. Presented at the 2006 Arteriosclerosis, Thrombosis and Vascular Biology Annual meeting, Denver, Colorado.
 25. Silver, AE, **Christou** DD, Beske SD, Moreau KL, Eskurza I, Gates PE, Levy AS, Radford AG, Seals DR (2006). Adiposity and vascular endothelial expression of pro- and anti-oxidant proteins in humans. *FASEB Journal*, 20(5):742.12, 2006. Presented at the 2006 Experimental Biology Annual Meeting, San Francisco, California.
 24. **Christou** DD, Jones PP, Jordan J, Diedrich A, Robertson D, Seals DR (2004). Women have lower autonomic support of blood pressure and less effective baroreflex buffering than men. *Circulation*, 110, 17, III-955. Presented at the 2004 American Heart Association Annual Meeting, New Orleans, Louisiana.
 23. **Christou** DD, Seals DR, Jones PP (2003). Relation of sex to baroreflex buffering in healthy young adults. *The FASEB Journal*, 17, 5, part I, A112. Presented at the 2003 Experimental Biology Annual Meeting, San Diego, California.

22. Gentile C, **Christou** D, Seals D, Gates P (2003). Relative contributions of adiposity and large artery stiffness to age-associated left ventricular remodeling and diastolic function in healthy men. *The FASEB Journal*, 17, 5, part II, A850. Presented at the 2003 Experimental Biology Annual Meeting, San Diego, California.
21. **Christou** D, Gates P, Seals D (2003). Is fatness or fitness the best predictor of cardiovascular disease risk profile in healthy men? *Medicine and Science in Sports and Exercise*, 35, Suppl. 5. Presented at the 2003 American College of Sports Medicine, Annual Meeting, San Francisco, California.
20. Seals DR, Jones PP, Pimentel A, **Christou** DD (2003) Adiposity contributes to age-related differences in autonomic nervous system-circulatory control in healthy men. *Clinical Autonomic Research*, 13:358. Presented at the 2003 American Autonomic Society Annual Meeting, Saint Troy, Virgin Islands.
19. Christou E, **Christou** D (2002). The influence of muscle mass on power is greater during fast and eccentric contractions in old adults. *Medicine and Science in Sports and Exercise*, 34, Suppl.5. Presented at the 2002 American College of Sports Medicine, Annual Meeting, St. Louis, Missouri.
18. **Christou** D, Gates P, Shapiro L, Seals D, Jones P (2002). Autonomic support of blood pressure is similar in young healthy women and men. *The FASEB Journal*, 16, 5, part I, A484. Presented at the 2002 Experimental Biology Annual Meeting, New Orleans, Louisiana.
17. **Christou** D, Seals D, Shapiro L, Jones P (2002). Arterial baroreflex sensitivity is not enhanced in exercise trained men: a novel approach. *Medicine and Science in Sports and Exercise*, Suppl. 5. Presented at the 2002 American College of Sports Medicine, Annual Meeting, St. Louis, Missouri.
16. Gentile C, **Christou** D, Seals D, Shapiro L, Jones, P (2002). Decreased arterial baroreflex sensitivity with age: a novel measurement approach. *The FASEB Journal*, 16, 5, part II, A834. Presented at the 2002 Experimental Biology Annual Meeting, New Orleans, Louisiana.
15. Pimentel A, **Christou** D, Seals D, Jones P (2002). Age-related increases in abdominal fat distribution partially explain increased autonomic support of blood pressure. *The FASEB Journal*, 16, 5, part I, A484. Presented at the 2002 Experimental Biology Annual Meeting, New Orleans, Louisiana.

14. Crawley M, Bell, C, **Christou** D, Seals D, Jones P (2002). Responses of leptin and cardiovascular/autonomic function to reduced energy expenditure. *Medicine and Science in Sports and Exercise*, Suppl. 5. Presented at the 2002 American College of Sports Medicine, Annual Meeting, St. Luis, Missouri.
13. Day D, Moreau K, **Christou** D, Seals D, Jones P (2002). Greater age-related increase in muscle sympathetic nerve activity in women is not explained by adiposity. *Medicine and Science in Sports and Exercise*, Suppl. 5. Presented at the 2002 American College of Sports Medicine, Annual Meeting, St. Luis, Missouri.
12. **Christou** D, Boileau R A, Washburn R (2001). Influence of physical activity on age-related change in muscle mass in 60- to 85-year-olds. *Medicine and Science in Sports and Exercise*, 33, (Suppl.5), S118. Presented at the 2001 American College of Sports Medicine, Annual Meeting, Baltimore, Maryland.
11. **Christou** D, Bell C, Day DS, Osterburg K, Melby C L, Seals DR, Jones, PP (2001). Relation of muscle sympathetic nerve activity to energy flux in habitually exercising older adults. *The FASEB Journal*, vol. 15, no. 5, part II, A794. Presented at the 2001 Experimental Biology Meeting, Orlando, Florida.
10. Bell C, Day DS, **Christou** D, Osterburg K, Melby CL, Seals DR, Jones PP (2001). Influence of energy flux on resting metabolic rate in habitually exercising older adults. *The FASEB Journal*, vol. 15, no. 5, part II, A794. Presented at the 2001 Experimental Biology Meeting, Orlando, Florida.
9. Bell C, Day DS, **Christou** D, Osterburg K, Melby CL, Seals DR, Jones PP (2001). Beta-adrenergic support of resting metabolic rate is reduced in habitually exercising older adults following an acute decrease in energy flux. *International Journal of Obesity and Related Metabolic Disorders*, V25, suppl. 3, S14-S15.
8. **Christou** D (2000). Influence of overall habitual physical activity on the age-related change in muscle mass in 60 to 85 year-olds (Sarcopenia). Ph.D. dissertation, University of Illinois at Urbana-Champaign, abstract in *Dissertation Abstracts International*, Vol 61-10, Section B, page 5266.
7. **Christou** D, Grossman M (2000). Mathematical modeling of O₂ uptake kinetics during rest, VO_{2max} test and recovery. *Medicine and Science in Sports and Exercise*, 32 (Suppl. 5). Presented at the 2000 American College of Sports Medicine, Annual Meeting, Indianapolis, Indiana.

6. **Demetriou** D, Boileau R, McAuley E, Devabhaktuni N, Dykstra G, Katula J, Nelson J, Pascale, A. (1999). Exercise training and aerobic fitness in older adults. Presented at the 9th Annual Conference on Gerontology and Aging, Champaign, Illinois.
5. **Demetriou** D, Christou E, Pascale A, & Boileau RA (1998). Influence of body mass distribution on running economy. *Medicine and Science in Sports and Exercise*, 30, (Suppl.5), S1355. Presented at the 1998 American College of Sports Medicine, Annual Meeting, Orlando, Florida.
4. Boileau RA, McAuley E, **Demetriou** D, Devabhaktuni N, Dykstra GL, Nelson J (1998). Exercise training and aerobic fitness in the elderly. *The FASEB Journal*, 12. A1038. Presented at the 1998 Experimental Biology Meeting, San Francisco, California.
3. Dykstra GL, **Demetriou** DG, Copay AG, Boileau RA (1996). Effect of six week sprint and endurance training programs on prepubescent children. *Medicine and Science in Sports and Exercise*, 28 (Suppl. 5), S41. Presented at the 1996 American College of Sports Medicine, Annual Meeting, Cincinnati, Ohio.
2. **Demetriou** D, Roach J, Capps J, Boedefeld M, Matthews D, Visich P (1993). Assessing kilocaloric expenditure at different exercise intensities. Presented at the Annual MAHPERD convention, St. Louis, Missouri.
1. **Demetriou** D, Christou EA, Mayhew J (1993). Relationship between body size and selected structural dimensions to bench press and squat strength in trained athletes. Presented at the Missouri Academy of Science Annual Meeting, Kansas City, Missouri.

Invited Presentations

“Aging and Vascular Function”, May 2015, Seminar, Department of Nutrition and Exercise Physiology, University of Missouri.

“Cardiovascular Research in Aging and Disease”, July 1014, Research Conference, Department of Cardiovascular Medicine, University of Florida.

“Mineralocorticoid Receptor Blockade Does Not Result in Arterial Destiffening in Healthy Older Adults.” Best of American Heart Association (AHA) Specialty Conferences: Best of HBPR, November 2012, AHA Annual Meeting, Los Angeles, California.

“Mineralocorticoid Receptors and Vascular Function in Healthy Aging”, September 2012, Seminar, Endocrine and Diabetes Research Conference, Department of Medicine, University of Florida.

“Relation of Adiponectin to Vascular Endothelial Function”, July 2013, Hypertension Center Research Retreat, University of Florida.

“Mineralocorticoid Receptors and Vascular Function in Older Adults with and without Metabolic Syndrome”, November 2011, Seminar, Department of Physiology and Functional Genomics, University of Florida.

“Vascular Function in Metabolic Syndrome: Role of Mineralocorticoid Receptors”, November 2011, Seminar, Department of Applied Physiology and Kinesiology, University of Florida.

“The Relation between Body Fatness and Vascular Endothelial Function in Healthy Adults is Dependent on Age and Sex”, March 2009, Seminar, Department of Applied Physiology and Kinesiology, University of Florida, Florida.

“Body Fatness and Vascular Endothelial Function”, February 2009, Seminar, Intercollegiate Faculty of Nutrition Seminar Series, Texas A&M University, Texas.

“Vascular Endothelial Dysfunction is Selectively Related to Fatness in Humans”, October 2008, Seminar, Cardiovascular Research Institute, College of Medicine, Texas A&M Health Sciences Center, Texas.

“Role of Mineralocorticoid Receptors in Endothelial Dysfunction in Men and Women with Metabolic Syndrome”, March 2008, Scott & White Clinic, Texas.

Chair for “Vascular Biology and Pathologic Signaling” Session, October 2007, 3rd Annual Cardiovascular Research Institute Research Retreat, Texas.

“Overweight and Obese Humans Demonstrate Increased Vascular Endothelial NAD(P)H Oxidase-p47^{phox} Expression and Evidence of Oxidative Stress”, October 2006, 2nd Annual Cardiovascular Research Institute Research Retreat, Texas.

“A Model for Studying Systemic, Cellular and Molecular factors Associated with Endothelial Dysfunction”, October 2006, Research Meeting, Scott and White Clinic, Texas.

“Overweight and Obese Humans Demonstrate Increased Vascular Endothelial NAD(P)H Oxidase-p47^{phox} Expression and Evidence of Oxidative Stress”, Fall 2006, Seminar, Department of Health and Kinesiology, Texas A&M University, Texas.

“An Integrative, Minimally Invasive Model for Studying Factors Influencing Risk of Atherosclerosis in Humans”, Fall 2005, Seminar, Department of Health and Kinesiology, Texas A&M University, Texas.

“Cardiovascular Effects of the Renin Angiotensin System”, Fall 2004, Guest lecturer for doctoral level Cardiovascular Physiology course, Department of Integrative Physiology, University of Colorado at Boulder, Colorado.

“Role of Renin Angiotensin System on Obesity Related Endothelial Dysfunction”, Spring 2004, General Clinical Research Center, University of Colorado at Boulder, Colorado.

“The Modulatory Influence of Overall Habitual Physical Activity on Age-related Muscle Mass Changes in 60 to 85 Year-olds”, Fall 2000, “*Colloquium in Integrative Physiology*”, senior level undergraduate/graduate course, Department of Integrative Physiology, University of Colorado at Boulder, Colorado.

Advisee Honors and Awards

Chueh Lung Hwang, PhD student, University of Florida, recipient of **Benny Vaughn and Dr. Joan Carroll Scholarship**, College of Health and Human Performance (2015-2016).

Chueh Lung Hwang, PhD student, University of Florida, recipient of **Dr. Norma M. Leavitt Scholarship**, College of Health and Human Performance (2014-2015).

Karen Mackay, MS student, University of Florida, recipient of **Fulbright Scholarship** (2012-2014).

Karen Mackay, MS student, University of Florida, recipient of the **BECAS Chile Scholarship** (2013-2014).

Chueh Lung Hwang, PhD student, University of Florida, recipient of **Predoctoral Scholarship**, Ministry of Education, Republic of China (Taiwan) (2012-2015).

Chueh Lung Hwang, PhD student, University of Florida, recipient of **Dr. Linton E. Grinter PhD Fellowship**, College of Health and Human Performance (2012-2013).

Han Kyul Kim, PhD student, University of Florida, recipient of **Dr. Linton E. Grinter PhD Fellowship**, College of Health and Human Performance (2011-2012).

Meredith Luttrell, PhD student, Texas A&M University, recipient of the **Distinguished Graduate Student Award for Excellence in Research** (2014).

Meredith Luttrell, PhD student, Texas A&M University, recipient of the **Texas A&M Regents Fellowship** (2009).

Professional Research Service

Grant Reviewer for

- National Institutes of Health:* NIBIB, Special Emphasis Panel/Scientific Review Group
Ad hoc reviewer
(Spring 2012)
- American Heart Association:* Vascular Biology and Blood Pressure Study Section
Regular member
(Fall 2009, Fall & Spring 2010, Fall & Spring 2011,
Fall & Spring 2012, Spring 2015)
- American Heart Association:* Behavioral Science, Epidemiology and Prevention Section
Regular member
(Spring 2008 & 2009)
- Italian Ministry of Health:* Directorate for Health and Technologies Research
Ad hoc reviewer
(Fall 2009)

Editorial Board Member

Exercise and Sports Science Reviews

Editorial Advisory Panel Member

Clinical Science

Journal Ad Hoc Reviewer for

Amino Acids
Atherosclerosis
American Journal of Clinical Nutrition
American Journal of Hypertension
American Journal of Physiology: Heart and Circulatory Physiology
American Journal of Physiology: Regulatory, Integrative and Comparative
Clinical Science
European Journal of Applied Physiology
European Journal of Sport Science
Heart
International Journal of Cardiology
International Journal of Obesity
International Journal of Psychophysiology
Journal of American College of Cardiology
Journal of Applied Physiology
Journal of Internal Medicine
Kidney and Blood Pressure Research
Medicine and Science in Sports and Exercise
Metabolic Syndrome and Related Disorders
Nutrition, Metabolism & Cardiovascular Diseases

Physiological Genomics
Preventive Medicine
Obesity

Reviewer for

Stanley Lecture Poster Competition	University of Florida (2015)
Poster Competition at Graduate Student Research Day	University of Florida (2013)
Student Research Week Awards	Texas A&M University (2009)
Texas A&M-CONACYT Grants	Collaborative Research Program Texas A&M University (2008)
Study Abroad Scholarship Applications	Texas A&M University (2008)
Oral and Poster Presentation Awards	Annual Cardiovascular Research Institute Retreat, Temple (2007)
International Research Travel Assistance Grants	Office of the Associate Vice President for International Programs Texas A&M University (2007)

Research Mentoring

Research Scholar

Jae-Hyun Yoo	(2014-)
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Doctoral Students

Jisok Lim (Chair)	(2015-)
Chueh Lung Hwang (Chair)	(2012-)
Han Kyul Kim (Chair)	(2011-)
Jeung Ki Yoo (Chair)	(2011-)
Moon Hyon Hwang (Chair)	(2006-2014)
Meredith Luttrell (Chair)	(2009-2010)
Ashley Walker	(2004-2006)
Annemarie Pimentel	(2001-2005)

Master's Students

Lauren Lob (Chair)	(2014-)
Kate Ingebretsen (Chair)	(2014-)
Fitian Bayan (Chair)	(2014-2015)
Andrea Vasconez (Chair)	(2013-2015)
Megan Lorow (Chair)	(2012-2014)
Karen Mackay (Chair)	(2012-2014)
Fern Christensen (Chair)	(2010-2012)
Jeung Ki Yoo (Chair)	(2009-2011)
Molly Cernosec (Chair)	(2009-2010)
Deepesh Khanna (Chair)	(2008-2010)
Mayank Rao (Chair)	(2007-2008)
Gregory Propst (Chair)	(2007-2009)
Meredith Luttrell (Chair)	(2007-2009)
Priyanka Naik (Chair)	(2007-2009)
Ryan Dalton (Chair)	(2006-2009)
Meghan Boucher	(2004-2005)
Melanie Connell	(2004-2006)
Christopher Gentile	(2001-2003)
Danielle Day	(2000-2001)

Undergraduate Honor's Thesis Students

Andrea Vasconez (Chair)	(2013)
Lauren Silva (Chair)	(2013)

Undergraduate Research Interns

Michelle Pinto	(2015)
Blake Dalley	(2015)
Andre Revell	(2015)
Kevin Privy	(2015)
Dina Walters	(2014)
Lindsay Wainman	(2014)
Drew Dubendorfer	(2014)
Brittany Knight	(2014)
Mateo Betancourt	(2013)
Olivia Hemstreet	(2013)
Tyler Mills	(2013)
Andrea Estefania Vasconez	(2013)

Undergraduate Research Assistants

Raymond King	(2015-)
Carter Hargreaves	(2015-)
Heather Baeta	(2015-)
Juan Barajas	(2015-)
Kathleen Basile	(2015-)
Jessica Howard	(2014-)
Lili Malone	(2014-)
Jessica MacWilkinson	(2014)
Sofia Sofianos	(2013-)
Kevin Priddy	(2013-2015)
Andre Revell	(2013-2015)
Blake Dalley	(2013-2015)
Austin Nolz	(2013-2014)
Olivia Hemstreet	(2012-2013)
Andrea Vasconez	(2012-2013)
Kimberly Jackson	(2011-2012)
Sophia Nguyen-NIH-HHMI scholar	(2005-2006)
Chelsey Sova-URAP funding	(2004-2005)
Nicholas LeBois-UROP funding	(2003)
Meghan Mayhood-URAP	(2002-2003)
Lindsey Willett	(2000-2001)
Stella Verdos-UROP funding	(2000-2001)
Jennifer Boklewski	(1999-2000)
Becky Fox	(1999-2000)
Ingrid Meier	(1998-1999)
Darlene Villalobos-McNair Scholar	(1997-1998)

Professional Research Assistants

Anindita Ahmed, M.D.	(2006-2007)
Whitney Elliott, M.S.	(2004-2006)
Stella Verdos, B.S.	(2001-2003)
Matthew Crawley, B.S.	(2000-2001)

Other Graduate Research Committee Memberships*PhD committee member for*

Paloma Sardina, Dept. of Applied Physiology & Kines., University of Florida
 Joseph Avery, Dept. of Applied Physiology & Kines., University of Florida
 Payal Ghosh, Dept of Applied Physiology & Kines., University of Florida, 2014
 John Stabley, Dept. of Applied Physiology & Kines., University of Florida, 2013
 Danielle McCullough, Dept. of Applied Physiology & Kines., University of Florida, 2013

Dan Trott, Dept. of Health & Kinesiology, Texas A&M University, 2010

Chang Woock Lee, Dept. of Health & Kinesiology, Texas A&M University, 2009

MS committee member for

Krupa Mehta, Department of Health & Kinesiology, Texas A&M University, 2008

Kevin West, Department of Health & Kinesiology, Texas A&M University, 2008

Bhavini Patel, Department of Health & Kinesiology, Texas A&M University, 2008

Teaching Experience

2015 **Instructor** for undergraduate course “Physiology of Exercise Training”, Department of Applied Physiology and Kinesiology, University of Florida.

2015 **Instructor** for graduate course “Research Methods”, Department of Applied Physiology and Kinesiology, University of Florida.

2015 **Co-instructor** for graduate course “Recent Advances in Hypertension Research”, Department of Physiology and Functional Genomics, College of Medicine, University of Florida.

2013 **Instructor** for graduate course “Research Methods”, Department of Applied Physiology and Kinesiology, University of Florida.

2011-2015 **Instructor** for undergraduate course “Physiology of Exercise Training”, Department of Applied Physiology and Kinesiology, University of Florida.

2009 **Co-instructor** for graduate course “Experimental Techniques in Molecular, Cell, and Systems Biology II”, Department of Systems Biology and Translational Medicine, Texas A&M University Health Sciences Center.

2009 **Instructor** for graduate course “Seminar in Vascular Function” Department of Health and Kinesiology, Texas A&M University.

2008 **Instructor** for graduate course “Seminar in Exercise Physiology” Department of Health and Kinesiology, Texas A&M University.

2006, 2008 **Instructor** for graduate course “*Theory of Research in Health and Kinesiology*”, Department of Health and Kinesiology, Texas A&M University.

- 2006-2008 **Instructor** for graduate course "*Reading Research Publications in Kinesiology*", Department of Health and Kinesiology, Texas A&M University.
- 2006 **Co-instructor** for doctoral course "*Professional Skills for the Research Scientist*", Department of Integrative Physiology, University of Colorado at Boulder.
- 2004 **Guest Lecturer** on "Cardiovascular effects of the Renin Angiotensin System" for graduate course "*Systemic Cardiovascular Regulations*", Department of Integrative Physiology, University of Colorado at Boulder.
- 1999 **Laboratory Instructor** for undergraduate/graduate course "*Body Composition, Evaluation and Regulation*", Department of Kinesiology, University of Illinois at Urbana-Champaign.
- 1997-2000 **Laboratory Instructor** for upper level undergraduate course "*Biodynamics of Human Movement*", Department of Kinesiology, University of Illinois at Urbana-Champaign.
- 1997, 1999 **Laboratory Instructor** for graduate course "*Scientific Basis of Physical Performance*", Department of Kinesiology, University of Illinois at Urbana-Champaign.
- 1994-1998 **Instructor** of the following courses for non-majors: "*Conditioning and Weight Control*"; "*Aerobics*"; "*Volleyball*"; "*Weight Training*", University of Illinois at Urbana-Champaign.
- 1995, 1996, 1998 **Teaching Assistant and Laboratory Instructor** for course "*Growth and Physical Development of Children*", Department of Kinesiology, University of Illinois at Urbana-Champaign.
- 1997-1998 **Teaching Assistant** for undergraduate course "*Introduction to Kinesiology*", Department of Kinesiology, University of Illinois at Urbana-Champaign.
- 1997 **Instructor** for undergraduate course for non-majors: "*Physical Activity and Health*", Department of Kinesiology, University of Illinois at Urbana-Champaign.
- 1996 **Laboratory instructor** for undergraduate course "*Bioscientific Basis of Exercise*", Department of Kinesiology, University of Illinois at Urbana-Champaign.

1995,1997 **Instructor** of sport activities and fitness concepts to children, *Sports Fitness Program*, Department of Kinesiology, University of Illinois at Urbana-Champaign.

Other Professional Service

Member of

Search Committee for Faculty	Dept. of Applied Physiology & Kinesiology University of Florida (2015-)
Search Committee for APK Chair	Dept. of Applied Physiology & Kinesiology University of Florida (2014 and 2015)
Faculty Evaluation Committee	Dept. of Applied Physiology & Kinesiology University of Florida (2012 and 2015)
Physical Activity Steering Committee	College of Health and Human Performance University of Florida (2014-date)
Search Committee for Lecturer	Dept. of Health Education & Behavior University of Florida (2014)
Graduate Fellowship Committee	Dept. of Applied Physiology & Kinesiology University of Florida (2013-2014)
Graduate Curriculum Committee	Dept. of Applied Physiology & Kinesiology University of Florida (2013-2014)
Graduate Fellowship Committee	Dept. of Applied Physiology & Kinesiology University of Florida (2011-2013)
Grade Appeals/Petitions Committee	Dept. of Applied Physiology & Kinesiology University of Florida (2012-2013)
Search Committee for Faculty	Dept. of Applied Physiology & Kinesiology University of Florida (2011)
Council of Principal Investigators	College of Education & Human Development Texas A&M University (Fall 2008-2010)
Graduate Admissions Committee	Department of Health and Kinesiology Texas A&M University (2006-2010)
Scientific Program Committee	Annual Cardiovascular Research Institute Retreat, Temple (2007)
Search Committee for Head	Department of Health and Kinesiology Texas A&M University (2007-2008)
Human Research Committee	University of Colorado-Boulder (2004-2005)

Honors and Awards

- 2012 Research abstract scored among the **top 10 %** of accepted abstracts at the American Heart Association (AHA) High Blood Pressure Conference and was invited for presentation at the Best of AHA, 2012 AHA annual meeting, Los Angeles, California.
- 2000 The **Laura J. Huelster Memorial Award** (monetary), awarded to support a female PhD student who is working on her dissertation and who has successfully completed her preliminary examination. Department of Kinesiology, University of Illinois at Urbana-Champaign.
- 1999 **Outstanding Research Poster Award** (monetary), awarded for outstanding poster presentation, 9th Spring Conference of the Office of Gerontology and Aging Studies, University of Illinois at Urbana-Champaign.
- 1999 The **Benjamin H. Massey Memorial Award** (monetary), awarded to graduate students pursuing research in physical fitness. Department of Kinesiology, University of Illinois at Urbana-Champaign.
- 1998 The **Laura J. Huelster Travel Scholarship** (monetary), awarded to support research presentation at national scientific conference. Department of Kinesiology, University of Illinois at Urbana-Champaign.
- 1996 Nominated to **List of Teachers Ranked as Excellent by Their Students**, University of Illinois at Urbana-Champaign.
- 1995 Received student ratings in the **outstanding** category and nominated to **List of Teachers Ranked as Excellent by Their Students**, University of Illinois at Urbana-Champaign.
- 1995 **Outstanding Staff Member Award** for furthering scholastic achievement as a Teaching Assistant, University of Illinois at Urbana-Champaign.
- 1994 **Cum Laude**, Truman State University
- 1993-1994 **Fulbright Scholarship** (monetary), Cyprus-America Scholarship Program.
- 1991-1994 **Dean's List**, recognized for outstanding academic achievement, Truman State University.
- 1990-1994 **President's Honorary Award** (monetary), awarded to undergraduate students for academic excellence, Truman State University.
- 1990-1994 **International Excellence Scholarship** (monetary), awarded to undergraduate students for academic achievement during undergraduate program, Truman State University.

Professional Memberships

Member of

American Physiological Society

Cardiovascular Section

Environmental & Exercise Physiology Section

American Heart Association,

Councils for Atherosclerosis, Thrombosis and Vascular Biology

Council for Nutrition Physical Activity and Metabolism

American College of Sports Medicine