

November 4, 2019

CURRICULUM VITAE

Shane A. Phillips PT, PhD, FAHA
Professor and Associate Head
UIC, Department of Physical Therapy
Senior Associate Dean for Clinical Affairs
UIC, College of Applied Health Sciences

NAME: Shane A. Phillips

OFFICE ADDRESS: Department of Physical Therapy
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EDUCATION

08/1994 - 05/1998	B.S., Marquette University, Milwaukee, WI
08/1998 - 05/2000	MPT., Marquette University, Milwaukee, WI
07/2000 - 05/2004	Ph.D., Physiology, Medical College of Wisconsin, Milwaukee, WI

POSTGRADUATE TRAINING AND FELLOWSHIP APPOINTMENTS:

03/2004 - 08/2004	Postdoctoral Fellow, Physiology, Medical College of Wisconsin, Milwaukee, WI (Mentor: Julian Lombard, PhD)
08/2004 - 07/2006	Postdoctoral Fellow, Medicine (Cardiovascular), Medical College of Wisconsin, Milwaukee, WI (Mentor: David Gutterman, MD)
07/2005 – 09/2007	Clinical Research Scholars (NIH-K30) Medical College of Wisconsin, Milwaukee, WI
07/2007 – 12/2009	Scholar, Center for Clinical and Translational Science University of Illinois Medical Center, Chicago, IL

FACULTY AND ADMINISTRATIVE APPOINTMENTS:

08/2002 - 12/2002	Visiting Instructor, Department of Physical Therapy Marquette University, Milwaukee, WI.
01/2003 - 05/2003	Adjunct Instructor, Graduate School of Nursing, Marquette University, Milwaukee, WI.
05/2004 – 08/2007	Adjunct Clinical Assistant Professor, University of Illinois at Chicago, Department of Physical Therapy; Chicago, IL.
07/2006 – 06/2007	Instructor, Department of Medicine, Division of Cardiovascular Medicine, Medical College of Wisconsin. Milwaukee, WI.
07/2006 – 06/2007	Instructor (secondary), Department of Surgery. Division of Trauma and Critical Care, Medical College of Wisconsin. Milwaukee, WI.
07/2007 – 08/2007	Assistant Professor, Departments of Medicine and Surgery, Medical College of Wisconsin, Milwaukee, WI

CV-Shane A. Phillips, Ph.D.

08/2007	Adjunct Assistant Professor, Departments of Medicine and Surgery, Medical College of Wisconsin, Milwaukee, WI
08/2007 – 08/2011	Assistant Professor (tenure track; primary), Department of Physical Therapy, University of Illinois, Chicago, IL
12/2007 – 08/2011	Clinical Assistant Professor (secondary), Department of Medicine, Section of Endocrinology, Diabetes, and Metabolism, University of Illinois College of Medicine, Chicago, IL
08/2010 – present	Associate Head, Department of Physical Therapy, University of Illinois at Chicago, Chicago, IL
08/2011 – 08/2015	Clinical Associate Professor, Department of Medicine, Section of Endocrinology, Diabetes, and Metabolism, University of Illinois College of Medicine, Chicago, IL
08/2011 – 08/2015	Associate Professor (tenure), Department of Physical Therapy, University of Illinois at Chicago, Chicago, IL
08/2012 – present	Member, Integrative Physiology Laboratory, College of Applied Health Sciences, University of Illinois at Chicago, Chicago, IL
08/2012 – 07/2013	Interim co-Director of Professional Education (DPT), Department of Physical Therapy, University of Illinois at Chicago
08/2013 – present	Faculty Fellow, Honors College, University of Illinois at Chicago
08/2015 – present	Professor (tenure), Department of Physical Therapy, University of Illinois at Chicago, Chicago, IL
08/2015 – present	Professor (clinical), Department of Medicine, Section of Endocrinology, Diabetes, and Metabolism, University of Illinois College of Medicine, Chicago, IL
03/2015 – 12/2017	Guest Researcher, Department of Physiotherapy, Federal University of Sao Carlos, SP, Brazil
2015	Guest Professor, Faculty of Medicine, University of Osijek, Osijek, Croatia
07/2016 – present	Director, Clinical Rehabilitation and Technology Research Certificate Program
08/2017 – present	Senior Associate Dean of Clinical Affairs, College of Applied Health Sciences, University of Illinois at Chicago, Chicago, IL

LICENSURE

Physical Therapist	Previous: State of Wisconsin Issue Date: 2000
	Current: State of Illinois Issue Date: 2008

PREVIOUS CLINICAL POSITIONS

1999-2000	Physical Therapist Internship, Columbia Hospital, Milwaukee, WI
2000	Physical Therapist Internship, Columbus Hospital, Chicago, IL
2000-2005	Physical Therapist, St. Michael's Hospital, Milwaukee, WI

AWARDS AND HONORS

Personal

1993	Eagle Scout, Boy Scouts of America
1994	High School All American Swimming Award

Clinical/Research

- 1997 Howard Hughes Medical Institute Undergraduate Summer Research Award:
Marquette University
- 2001-2004 National Institutes of Health – Institutional Predoctoral Award National Research
Service Award. Medical College of Wisconsin
- 2004-2005 National Institutes of Health – Institutional Postdoctoral Award National
Research Service Award. Medical College of Wisconsin
- 2004 Microcirculatory Society Benjamin Zweifach Student Award
- 2005 Iowa Physiological Society (IPS): Trainee Award Finalist
- Abstract competition at annual IPS Meeting (4 finalists)
- 2005 American Heart Association Postdoctoral Fellowship Award
- 2006 Young Investigator Award- Clinical Science Cardiovascular Section of the
American Physiological Society (APS)
- 1 award selected annually by the cardiovascular section of APS for the
outstanding clinical research abstract presented at Experimental Biology
- 2007 Center for Clinical Translational Science Scholars Award
University of Illinois Medical Center at Chicago
- 2008 American College of Sports Medicine Research Endowment Award
- 2009 Top paper award for clinical science contribution to Hypertension
- 1 award selected for the most significant original paper published in the journal
Hypertension in 2008
- 2010 Presidential Early Career Award for Scientists and Engineers (PECASE) Nominee
- 2011 Educator of the Year Award, Physical Therapy, College of Applied Health
Sciences, UIC
- 2013 Researcher of the Year, College of Applied Health Sciences, UIC
- 2013 Fellow, American Heart Association, Council on Arteriosclerosis, Thrombosis and
Vascular Biology
- 2015 UIC Chancellor's Proof of Concept Award Winner
- 2017 Professor of the Year, College of Applied Health Sciences, University of Illinois at
Chicago, Chicago, IL

Academic /Scholastic

- 1998 Phi Beta Kappa, Marquette University
- 1998 Alpha Sigma Nu, Marquette University
- 1999 Wisconsin Physical Therapy Association Academic Award
- 2004 MCW/Excellence in Physiology Award – Summa Cum Laude
- Awarded annually for excellence in research and academics by the Medical
College of Wisconsin, Department of Physiology Graduate Program

MEMBERSHIPS IN HONORARY AND PROFESSIONAL SOCIETIES:

- 04/1999 – present American Physical Therapy Association
Sections of Cardiovascular and Pulmonary Physical Therapy and Acute
Care Physical Therapy
- 04/1999 – 08/2007 Wisconsin Physical Therapy Association
- 06/2004 – present American Physiological Society
- 12/2003 – present Microcirculatory Society, Inc.
- 06/2005 – present American Heart Association

10/2008 – present Illinois Physical Therapy Association
03/2012 – present APTA Section on Research; APTA Cardiovascular and Pulmonary

EDITORIAL BOARDS/INVITED REVIEWER:

Editorial Board Member:

01/2007 – present American Journal of Physiology: Heart and Circulatory Physiology
01/2010 – present Microcirculation
2014 - 2016 Advances in Vascular Medicine
2015 Guest Editor, Progresses in Cardiovascular Diseases
2016 - present Associate Editor, Brazilian Journal of Physical Therapy
2016 - present Review Editor, Frontiers in Physiology, Exercise Physiology
2019 Guest Editor, Nutrients Journal

Invited Journal Reviewer:

2004 – present American Journal of Physiology: Heart and Circulatory Physiology; Journal of Applied Physiology, Journal of Vascular Research; European Journal of Clinical Investigation; Journal of the American College of Cardiology; Diabetes; American Journal of Physiology: Regulatory, Integrative, and Comparative Physiology; Obesity; Hypertension; Journal of Nutrition, Metabolism, and Cardiovascular Disease; Metabolism; Journal of Internal Medicine; Applied Physiology, Nutrition, and Metabolism, Frontiers in Physiology; Journal of Physiology; Medicine, Science, and Sports in Exercise; Progress in Cardiovascular Disease: Circulation, Circulation Research, Journal of the American Heart Association

GRANT REVIEW COMMITTEES AND SERVICE

2009 – 2011 Reviewer, American Heart Association, Vascular Biology and Blood Pressure Study Group Review Committee (Regular member).
2011 – present Reviewer, American Heart Association, Vascular Biology and Blood Pressure Clinical and Translational Review Group (Regular Member)
2011, 2012 Reviewer, NIH/NHLBI Clinical and Integrative Cardiovascular Sciences Study Section (Temporary Member)
2012- present UIC Campus Research Board; Co-Chair 2018
2013 Board of the Austrian Science Fund, Invited Scientific Reviewer
2013 Vidi Program; Innovation Research Initiative, Netherlands
2015,2019 Ad Hoc study section, NIH/NHLBI Atherosclerosis and Inflammation of the Cardiovascular System Study Section
2016 – 2018 Chair, Scientific Review Committee, AHA Vascular Biology and Blood Pressure Clinical Translational
2017 Member, NASA Human Exploration Research Opportunities, Radiation Cardio Panel
2018 Member, NASA Space Biology, Integrative Physiology Panel
2018, 2019 Reviewer, NIH/NHLBI Clinical and Integrative Cardiovascular Sciences Study Section (Ad Hoc)
2019 Member, NASA HERO crew Radiation Cardio Review Panel

APPOINTED/ELECTED LEADERSHIP AND COMMITTEE POSITIONS

08/2005 – present	Member, Doctor of Physical Therapy Program Admissions Committee, Department of Physical Therapy, University of Illinois at Chicago
09/2007 – 2010	Faculty Advisory Committee (elected), Department of Physical Therapy, University of Illinois at Chicago
2008	Graduate Education Task Force (appointed), Department of Physical Therapy, University of Illinois at Chicago
2009	Faculty Search Committee (appointed), Department of Physical Therapy, University of Illinois at Chicago, Assistant Professor
2009 – 2017	Graduate Admissions Committee (appointed), M.S. in Rehabilitation Sciences, Department of Physical Therapy, University of Illinois at Chicago
2010	Faculty Search Committee, Department of Physical Therapy, University of Illinois at Chicago, Clinical Assistant Professor, Assistant Professor
08/2010 – present	Associate Head, Department of Physical Therapy, University of Illinois at Chicago
08/2010 – present	Faculty Advisory Committee (appointed), Department of Physical Therapy Committee
2011	Member, Faculty Search Committee, Department of Kinesiology and Nutrition, University of Illinois at Chicago, Assistant Professor
2011 – present	Member, Editorial Board of the Department of Physical Therapy Newsletter (“Moment”), University of Illinois at Chicago
2011 – 2016	Member, PhD (Rehabilitation Track) program academic performance committee, College of Applied Health Sciences, University of Illinois at Chicago
2011 – 2017	Member, Promotion and Tenure Committee, College of Applied Health Sciences, University of Illinois at Chicago
2012- 2013	Member, Committee on the formation of a new PhD in Rehabilitation, UIC College of Applied Health Sciences. *Co-developed University application for the formation a new PhD in Rehabilitation
2012	Chair (appointed), Faculty Search Committee for Assistant Director of Clinical Education, Department of Physical Therapy, University of Illinois at Chicago
2012	Chair (appointed), Faculty Search Committee for Clinical Assistant/Associate Professor, Department of Physical Therapy, University of Illinois at Chicago
2012-2013	Interim Co-Director of Professional Education (appointed), Department of Physical Therapy, University of Illinois at Chicago
2012 – present	Member, Promotion and Tenure Committee (elected), Department of Physical Therapy, University of Illinois at Chicago
2012	Member, Search Committee for Associate Dean for Research, College of Applied Health Sciences, UIC
2014	Chair, Search Committee for Clinical Instructor, Department of Physical Therapy, UIC

2015 – 2016	Chair, Ad hoc Policy and Procedures Review Committee, Department of Physical Therapy, UIC
2015	Chair, Search Committee for Clinical Assistant Professor, Director of Cardiac Rehabilitation, Department of Physical Therapy, UIC
2015, 2019	Chair, Search Committee for Tenure Track Assistant Professor, Department of Physical Therapy, UIC
2016 – present	Chair, Department of Physical Therapy Promotion and Tenure Committee, UIC
2016 – present 2019	Member, committee on PhD in Rehabilitation Sciences Curriculum Center for Clinical and Translation Sciences, Education and Professional Development Advisory Committee, UIC
2019 – present	Chair, Department of Physical Therapy Tenure Track Faculty Search Committee, UIC

OTHER UNIVERSITY AND COMMUNITY SERVICE

College and Department Service and Program Development

- 2012 Development of the Departmental strategic plan for Excellence for Physical Therapy Education and Research
- Lead and implemented the expansion in the enrollment of our professional DPT program by 40%
 - Expansion and reformatting of the PhD and M.S. in Rehabilitation programs to meet market demands for qualified faculty teaching and research scholars for professional education
 - The development of a research focus and faculty recruitment in neuro-rehabilitation, cardiovascular and pulmonary physical therapy, wound care, orthopedic and sports physical therapy
 - Oversaw the expansion of education space and resources from 12,170 square feet in 2007 to more than 20,000 square feet in 2014.
 - Co-Lead the strategic plan development and implementation for the Department of Physical Therapy (2012, 2015, and 2019).
- 2014 Co-Developed and planned the Orthopedic Physical Therapy faculty practice space and clinic
- Planned, remodeled and designed more than 3500 square feet
 - Hired 3 clinical service faculty and residency mentors
 - More than 25,000 clinic visits for Orthopedic Physical Therapy
- Co-Developed the Department of Physical Therapy Post-Professional Orthopedic Residency Certificate Program and Clinical Practice
- Developed PT 594: Educator Practicum
 - Developed PT 594: Physical Therapy Residency Mentorship
 - Course Description: During Physical Therapy Residency Mentorship, while being mentored and supervised by physical therapists with expertise in a particular practice setting, residents apply and develop advanced skills in a specialized clinical environment that fosters learning, inquiry, and critical/creative thinking.
 - Residency accreditation achieved in 2015, 3 residents per cohort.

- Educational model with combined DPT to PhD to residency published in: Integrated approaches to physical therapy education: a new comprehensive model from the University of Illinois at Chicago. *Physiother Theory Pract.* 33: 353-360. 2017.
- 2013 Co-Developed the Department of Physical Therapy Proposal (MOU) for Professional Pipeline to Promote Diversity in Physical Therapy with UIC and Chicago Public Schools
- 2014 Co-Developed the Department of Physical Therapy new Anatomy course proposal
- PT604 Anatomy of the Central Nervous System, Head and Neck for Physical Therapy
 - PT603 Human Gross Anatomy for Physical Therapy
- 2015 Developed the Department of Physical Therapy Certificate in Clinical Rehabilitation and Technology Research
- Mission: The mission of the University of Illinois at Chicago Certificate in *Human Subject Research Training for Health Professionals* is to provide physical therapists, physical therapy students and other health professionals, who have completed their degree or are still students, advanced knowledge and skills needed to actively participate on a human subject research team. This certificate training will produce clinicians who have an advanced understanding of how to contribute to the development of and participate in human subject research projects.
- 2014 External research contracts developed with Revolution Physical Therapy and Weight Loss for research development and clinical outcomes analysis. (\$36,000/year).
- Results and model: *Physiother Theory Pract* 34: 13-21. 2018.
- 2015 External research and faculty contracts develop with React Physical Therapy for clinical outcomes analysis (\$50,000/year).
- 2015 Co-Developed and Implemented the Department of Physical Therapy Program for the UIC Applied Health Sciences cardiac rehabilitation program with the College of Medicine and the University of Illinois Health Sciences System
- Combined Cardiac Rehabilitation program with on-site heart failure physician practice
 - Developed a billable exercise testing laboratory service for heart and cardiovascular patients
 - Hired 2 FTE faculty exercise physiologist to administer the program and attained accreditation 2018.
 - Model described in: Ozemek C, **Phillips SA**, et al. Enhancing Participation in Cardiac Rehabilitation: A Question of Proximity and Integration of Outpatient Services. *Curr Probl Cardiol* 43: 424-435. 2018.
- 2017 Leadership team for the DPT program CAPTE re-accreditation self-study and evaluation process.
- 10 year accreditation granted by CAPTE

- 2018 Developed a billable and embedded physical therapy practice in bariatric surgery clinical practice
- Oversee the credentialing process for physical therapist enrollment in insurance plans
 - Developed the pro-forma and business planning for the practice proposal
- 2019 Development of College of Applied Health Sciences clinical services infrastructure and planning
- Leadership in college clinical affairs strategic planning development
 - Coordinated billing and revenue cycle management for clinical faculty (more than 50 personnel) in Physical Therapy, Occupational Therapy, Psychology, Speech Language Pathology, and exercise physiology.

University Service

- 2010 – 2013 Member, Research Advisory Council Member, Office of the Vice Chancellor for Research, University of Illinois at Chicago
- 2011- 2013 Co-Director and organizer of the Department of Physical Therapy hosted career fair, University of Illinois at Chicago
- 2012 - 2016 Member/Reviewer Campus Research Board, Office of the Vice Chancellor for Research, University of Illinois at Chicago
- 2016 – 2019 UIC faculty Senate
- 2016 – present UIC Vice Chancellor for Research Conflicts of Interest Committee Member

Campus Wide Workshops and Training

- 2015 Office of the Vice Chancellor for Research (Research and Development Services); Presenter of “Writing for the Reviewer: Strengthening your NIH Mentored K Proposal”
- 2009-2011 Office of the Vice Chancellor for Research (Research and Development Services); Moderator of “Writing for the Reviewer: Strengthening your NIH Mentored K Proposal”
- 2009-2012 Center for Clinical and Translational Sciences; Invited panel member of session entitled “Overcoming Research Pitfalls as a New Investigator” for the summer program in CCTS Clinical and Translational Research Methods.
- 2015 UIC Postdoctoral Association, Invited workshop on, “Basics of Writing and Winning a Winning Early Career Development Grant.”
- 2016 UIC Future of Science Seminar Series, Invited seminar on, “Introduction to Writing Effective Specific Aims.”

Public Service

- 2009 – 2011 Volunteer Instructor on the value of Science for Careers in Rehabilitation Sciences and Research, UIC College Prep Health Science Day (program designed to facilitate urban high school students’ interested in the health sciences).
- 2011 Volunteer and faculty mentor for the Susan G. Komen 3-day walk for the cure
- 2012 Volunteer Research Mentor, Proviso Math and Science Academy, Maywood, IL. Provided hands on research and scientific mentorship for 2 senior high schools students.

- 2015-2016 Advisory Board Member to the Chicago Grant Park Conservancy for the outdoor Health Space
- 2016-2017 American Heart Association Work Site Wellness Task force committee (Chicago Midwest office).

Professional Committees and Symposium Chaired

- 2008 Chair, Featured Topic Symposium on “Exercise, Oxidative Stress, and Endothelial Function” sponsored by the Cardiovascular Section of the American Physiological Society at Experimental Biology 2008.
- 2010 Chair, Symposium on Integration and Mechanisms in Hypertension III at the 2nd International Symposium on Hypertension: Translational Medicine in Hypertension Meeting, Osijek, Croatia (11/18/2010 – 11/21/2010).
- 2012 Member, APTA Academic Council for Physical Therapy Education
- 2012 Nominated, member of the Exercise Physiology Task Force of the Academic Council for Physical Therapy Education
- 2012 Member, Consortium of the Research-Intensive Physical Therapy Programs (RIPPs) Consortium.
- Established to promote academic excellence by strengthening the community of research-intensive physical therapy programs.
- 2012 Member, Education Programming Committee, APTA Combined Sections Meeting, Section on Cardiovascular and Pulmonary Physical Therapy Education
- 2013 Co-Chair, Symposium on Environmental and Exercise Physiology at the Croatian Physiological Society (09/11/2013-09/15/2013).
- 2013 Co-Chair/Moderator, session on Translational Insights in the Regulation of Vascular Resistance in Health and Disease, American Heart Association Scientific Sessions (11/19/2013).
- 2013 Poster Professor, session on Microcirculation and Cerebral, Coronary, and Peripheral Circulation, American Heart Association Scientific Sessions (11/18/2013).
- 2015 Research Society on Alcohol Symposium co-Chair on Binge Drinking in Young Adults: Is it time for an eye opener?
- 2016 Co-Chair and Moderator, Symposium Mitochondrial Redox Signaling and Vascular Function in Health and Disease, American Heart Association Scientific Sessions (11/14/2016).
- 2016 Co-Chair and Moderator, Symposium on Mobile Health Technologies and Chronic Disease Management: Applications in Rehabilitation, American Congress on Rehabilitation Medicine, Chicago, IL (10/31/2017).
- 2017 Co-Chair and presenter, APTA Combined Sections Meeting session on It takes a team! An interdisciplinary approach to fitness, wellness and prevention for children, San Antonio, TX (02/16/2017)
- 2018 Co-Chair, APTA Combined Sections Meeting session on Hospitalizations Hinder Patient’s return to their Prior Level of Function, APTA section on Acute Care Physical Therapy (02/22/2018)
- 2018 Co-Chair, Symposium on From Mice to Men and Back: What have we really learned about the regulation of Coronary Vascular Function in Health and Disease?, Experimental Biology, San Diego, CA (04/21/2018)

2019 Platform member, Symposium on Of Molecules, Mice, and Men: PT Faculty-led Basic and Translational Research. Physical Therapy Combined Sections Meeting, Washington, DC (01/06/2019). Presentation on “Growing and Fostering Translational Research that Complements the Academic Missions”

RESEARCH GRANTS/AWARDS/CONTRACTS/PROJECTS

Active-Peer Review

National/Institutional

Source: **NIH/NHLBI R01 HL073965**
Multi PI: Irena Levitan, PhD, Shane Phillips PT, PhD, David Eddington PhD
Title: Cholesterol Regulation of Endothelial K⁺ Channels
Dates: 04/01/13 – 03/31/20 (NCE)
Role: PI (Multiple PI)
Direct Funds: \$1,028,840.00

Source: **NIH/NHLBI R01 HL130513A1**
Title: Improving Blood Pressure and Vascular Risk with Resistance Exercise in African Americans
PI: Shane A. Phillips PT, PhD
Role: PI
Dates: 7/01/16 – 6/31/21
Direct Funds: \$2,330,347

Source: **NIH/NIDDK R01 DK109948**
Title: Strategies and functional outcomes of enhancing in vivo production of soluble RAGE isoforms
PI: Jacob Haus, PhD
Role: consultant/co-I
Dates: 7/01/16 – 6/31/21
Direct Funds: \$2,204,831

Source: **NIH/NIAAA R21 AA024535**
Title: Binge Drinking and Cardiovascular Risk in Young Adults
PI: Shane A. Phillips PT, PhD, Mariann Piano, RN, PhD,
Role: PI (Multiple PI)
Dates: 3/01/17– 2/28/20 (NCE)
Direct Funds: \$350,000

Source: **NIH/NHLBI K99/R00 HL14004**
Title: DNA Methylation and Vascular Function in Obesity: Role of Exercise and Weight Loss
PI: Abeer M. Mohamed, MD, PhD
Role: Mentor and co-I
Dates: 01/01/18 – 12/31/19
Direct Funds: \$212,640 K phase; \$962,730 R phase

Source: **NIH/NHLBI T32 HL134634**

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Title: Precision Lifestyle Medicine and Translation Research (PREMIER)
Role: Mentorship core faculty
PI: Ben Gerber MD/Jun Ma PhD(Co-PIs)
Dates: 04/01/18-03/31/23
Direct Funds: \$251,106; Year 1
Source: **NIH/NHLBI T32HL139439**
Title: Training Program in Personalized Cardiovascular Medicine (TPIPCVM)
Role: Mentor
PI: Dawood Darbar MD
Dates: 07/01/2018 – 06/30/2023
Direct Funds: \$213,300 Year 1

Source: **NIH/NHLBI R01HL141120**
Title: Microvascular Endothelial Kir Channels in Flow Induced Dilation and Hypertension
Multi PI: Irena Levitan PhD and Shane A. Phillips PT, PhD
Role: PI
Dates: 04/01/19 – 3/30/24 (%: 10)
Direct Funds: \$1,607,572

Source: **K01 HL148503**
Title: The impact of a resistance training intervention on blood pressure control in older adults with Sarcopenia
PI: Deepika Laddu, PhD
Role: Mentor
Dates: 06/01/19 – 05/31/24
Direct: \$806,733 (Impact: 10)

International

Source: **Brazilian Scientific Mobility Program- 303524/2014-6**
PI: Audrey Bohrgi-Silva (Federal University of Sao Carlos)
Title: The Peripheral Muscle Oxygenation and Ventilation During Dynamic Exercise High Intensity Players in Football: A randomized trial of the effects of the Respiratory Muscle Training Improves Exercise Tolerance clinical trial.
Dates: 7/1/2014 – 06/30/17 extended to 12/30/18
Role: Visiting Research Professor to Federal University of Sao Carlos, Sao Paulo, Brazil
Total Funds: 518,186.66 BRL ~ \$232,000 USD

B. Previous International Grants

Source: **Ministry of Science, Education, and Sports (Republic of Croatia)**
PI: Shane A. Phillips PT, PhD (Host Laboratory International Research Training Exchange with Faculty of Medicine in Osijek Croatia)
Title: Project 1: Mechanisms of microvascular reactivity in resistance arteries.
Project 2: Influence of diet and exercise on vascular reactivity and vascular stiffness.

Dates: 06-15-2011 to 12-15-2011
Role: PI
Funds: \$26,000

C. Previous Non-Peer Review

Title: ***Cardiovascular Translational Research (Development Funds)***
Source: Advancing a Healthier Wisconsin – Medical College of Wisconsin
PI: David Gutterman MD
Role: Co-Investigator
Date: 08/01/2006-7/31/2009
Funds: \$305,835 (3 years)

Title: ***A randomized, double-blind, placebo-controlled, 2-period cross-over study to evaluate the effects of single and multiple oral doses of extended release niacin (Niaspan®) on endothelium-dependent and endothelium-independent vascular reactivity in subjects with hypercholesterolemia.***
Source: Merck Pharmaceuticals
PI: David Gutterman MD
Role: Co-Investigator
Date: 06/01/2007 – 05/30/2009
Direct Funds: \$91,302

E. Completed Peer Review

Title/Source: ***NIH (T32) Institutional National Research Service Award (post doctoral) Mechanisms of Human Arteriolar Dilation***

PI: Allen Cowley Ph.D.
Dates: 8/1/2004-7/1/2005
Role: Postdoctoral Fellow

Source: ***American Heart Association: Greater Midwest Affiliate. Post doctoral Fellowship***

Title: Role of Endothelial Cytoskeleton in Flow Mediated Dilation of Human Coronary Arterioles.

Dates: 7/1/2005-6/30/2007
Status: Completed
Funds: \$91,272

Title: ***Role of Epoxyeicosatrienoic Acids as EDHF in Human Coronary Arterioles***

Source: VA Merit Review
PI: David Gutterman MD
Role: Co-Investigator (25%)
Dates: 10/01/03-9/30/08
Direct Funds: \$717,000

Title: ***Mechanisms of Human Coronary Arteriolar Dilation***

Source: NIH/NHLBI (R01)
PI: David Gutterman MD
Role: Co-Investigator (25%)
Dates: 12/1/05 – 11/30/10
Direct Funds: \$1,250,000

Title: ***Role of oxidative stress and apoptosis in endothelial dysfunction in AL amyloidosis and protection using antioxidant (MitoQ) and antiapoptotic (Bax inhibitor peptide) therapy***

Source: Amyloidosis Research Foundation
PI: Raymond Migrino, MD
Role: Co-Investigator
Date: 03/1/2007 – 02/30/2009
Direct Funds: \$30,000

Title: ***The Protective Effect of Soy on Vascular Endothelial Health***

Source: Soy Health Research Program Incentive Grant Program
PI: Shane Phillips PT, PhD
Role: Principal Investigator
Date: 03/15/2006 – 03/15/2008
Direct Funds: \$10,000

Source: **American College of Sports Medicine-Research Endowment Award**

Title: Exertional Hypertension and Vascular Dysfunction
PI: Shane Phillips PT, PhD
Dates: 7/1/2008 – 1/30/2010
Direct Funds: \$10,000

Source: ***University of Illinois at Chicago Center for Clinical and Translational Science***

Title: Center for Clinical and Translational Science Scholar Award
PI: Shane Phillips PT, PhD
Role: Principal Investigator
Dates: 09/1/2007 – 8/31/2009
Direct Funds: \$50,000

Source: ***NIH/NHLBI (ROI HL095701A2S1)***

Title: Supplement to Promote Diversity in Health Related Research to the Effects of low carbohydrate and low fat diets on endothelium function in human obesity
PI: Shane A. Phillips PT, PhD
Role: PI (mentor to Graduate Assistant Nina Franklin)
Dates: 05/09/11 – 07/30/13 (returned early due to graduation)
Direct Funds: \$77,481

Source: ***Massage Therapy Foundation***

PI: Nina Franklin, M.S.

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Title: Efficacy of massage therapy in attenuating vascular dysfunction after exertion-induced muscle injury
Dates: 09/01/10 – 4/30/12
Role: Sponsor and co-PI
Funds: \$30,000

Source: ***UIC Chancellors Discovery Fund Award***
Title: Role of adipose tissue in mediating cardio-protective effects of alternate day fasting
PI: Shane A. Phillips PT, PhD
Role: Co-Principal Investigator
Dates: 01/04/2010-12/30/2012
Direct Funds: \$58,000

Source: ***NIH/NHLBI (K23 HL085614) Mentored-Patient Oriented Research Career Development Award***
Title: Mechanisms of exertional hypertension and vascular dysfunction
PI: Shane A. Phillips PT, PhD
Role: PI
Dates: 08/25/2007 – 6/30/2013 (no cost extension)
Direct Funds: \$596,897

Source: ***American Heart Association-Scientific Development Grant***
Title: Alternate day fasting for weight loss and cardio-protection
PI: Krista Varady PhD
Role: Co-Investigator
Dates: 01/01/10 – 12/31/2014
Direct Funds: \$325,000

Source: ***UIC College of Nursing Internal Research Support Program***
PI: Mariann Piano RN, PhD
Title: The Effects of Binge Drinking on Endothelin-1 and Vascular Function
Dates: 04/01/2012 to 03/31/2014
Role: Co-PI
Funds: \$10,000

Source: ***NIH/NHLBI (RO1 HL095701-03S1)***
Title: Supplement to Promote Diversity in Health Related Research to the Effects of low carbohydrate and low fat diets on endothelium function in human obesity
PI: Shane A. Phillips PT, PhD
Role: PI (mentor to Graduate Assistant Austin Robinson)
Dates: 09/01/12 – 07/30/15
Direct Funds: \$105,537

Source: ***International Society of Sports Nutrition***
PI: Austin Robinson (PhD in Rehabilitation Sciences Student)

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Title: The Effects of Inorganic Nitrate Supplementation on Macro and Microvasculature Function Following Acute Exercise
Dates: 6-1-2014 – 12-30-2015
Direct Funds: \$10,000

Source: ***UIC- Office of Vice Chancellor for Research***
Title: Developing methods and measures to investigate the impact of binge drinking on cardiovascular and cerebrovascular structure and function in young adults
PI: Piano (PI)
Role: Co-I
Dates: 05/01/13 – 12/01/2014
Funds: \$20,000

Source: ***UIC Campus Research Board***
PI: Michael Brown PhD
Title: Optimizing Vascular Health in African Americans
Dates: 1/1/2014 – 12/30/2014
Role: Co-I
Direct Funds: \$20,000

Source: ***UIC College of Nursing Internal Research Support Program***
PI: Pamela Martyn-Nemeth RN, PhD
Title: Measurement of Insulin Resistance in Adolescents and Young Adults with Type 1 Diabetes
Dates: 05/01/10 to 12/30/15 (extended)
Role: Co-Investigator
Funds: \$10,000

Source: ***UIC College of Nursing Internal Research Support Program***
PI: Laurie Quinn RN, PhD
Title: Factors Associated with Exercise Intolerance in Heart Failure
Dates: 04/01/2010 to 03/31/2014 (extended)
Role: Co-Investigator
Funds: \$10,000

Source: ***NIH/NIDDK (R01 DK084016)***
Title: Intradialytic protein supplementation and exercise training in dialysis patients
Dates: 09/01/10 – 08/31/15
PI: Ken Wilund PhD
Role: Co-Investigator
Direct Funds: \$1,672,392 (UIC Direct: \$409,105)

Source: ***NIH/NIDDK T32 DK080674***
PI: Terry Unterman MD
Title: Diabetes, Nutrition, and Obesity Training Program
Dates: 07/01/10 – 06/30/15

Role: Co-Investigator (Primary Trainer)
Direct Funds: FY 11: \$128,659

Source: **NIH/NHLBI R01 HL095701**
Title: Effects of low carbohydrate and low fat diets on endothelium function in human obesity
PI: Shane A. Phillips PT, PhD
Role: PI
Dates: 08/13/10 – 06/30/16 (no-cost extension)
Direct Funds: \$1,250,000

Source: **UIC Chancellor's Proof of Concept**
PI: Shane A. Phillips PT, PhD
Title: Wearable Continuous Cardiovascular Sensor and Algorithm for Healthcare and Rehabilitation
Role: PI
Dates: 8/01/2015 – 03/31/2017
Direct Funds: \$60,000

Source: **NIH/NHLBI R01 HL070187**
PI: Tohru Fukai MD, PhD
Title: Modulation of Vascular Superoxide Dismutase
Dates: 09/13/13 – 08/31/18
Role: Co-I
Direct Funds: \$1,645,229

Source: **NIH K23 DK094829-01A1**
Title: Gender Disparities and Vascular Function in Chronic Kidney Disease Outcomes
PI: Ricardo (PI)
Role: Co-I
Dates: 01/15/13 – 12/30/18

INTELLECTUAL PROPERTY AND DISCOVERY

- 10/2011 **Title:** A wearable cardiovascular and physical activity monitor that includes a field adaptive neural network processor, modular extensible functional interface, and open communications framework for healthcare delivery and research platforms (Disclosure to UIC Office of Technology Management; DF050; Provisional Patent)
- 05/2014 **Title:** A non-invasive ePhysiologic monitor with an adaptive regression algorithm for continuous blood pressure measurement from multispectral photo pulse-plethysmography (Disclosure to UIC Office of Technology Management: DH150).
- 09/2019 PCT Patent Application No. PCT/US2018/052144
(based on U.S. Application No. 62/561,802)
Title: Sensor and Methods for Continuous Non-Invasive Blood Pressure

Measurement and Cardiovascular Hemodynamics Monitoring in Healthcare,
Rehabilitation and Wearable Wellness Monitors
Filing Date: September 21, 2018

INVITED LECTURES/WORKSHOPS/PRESENTATIONS:

International

1. **Phillips S.A.** “Exercise, Oxidative Stress and Human Endothelial Function.” at the 5th Croatian Congress of Pharmacology and the 2nd Congress of Croatian Physiological Society Meeting, Osijek, Croatia, (9/19/2007 – 9/23/2007).
2. Gutterman D.D., B.T. Larsen, **S.A. Phillips**, Y.P. Liu. “Endothelial Function and Cardiovascular Risk” Presented at 5th ICCP conference, Beijing, China, (10/9/2009 – 10/12/2009).
3. **Phillips S.A.** Invited symposium speaker on “Microcirculation, Blood Pressure, and Physical Exercise.” at the 2nd International Symposium on Hypertension: Translational Medicine in Hypertension Meeting, Osijek, Croatia (11/18/2010 – 11/21/2010).
4. Clark J.D., C.A. Courtney, M.K. Barrack, **S.A. Phillips**. Presentation on “The relationship between altered nociception and cardiovascular dysfunction following ACL rupture” at the International Federation of Orthopedic Manipulative Physical Therapists. World Congress of Manual/Musculoskeletal Physiotherapy. Quebec City, Canada (9/30/2012 – 10/5/2012).
5. **Phillips S.A.** Invited international speaker on “Vascular Dysfunction and Exercise.” At Congress of Croatian Physiological Society and Regional Physiological Society. Rijeka, Croatia (09/13/2013 – 09/15/2013). *Member International Organizing Board.
6. **Phillips S.A.** Invited speaker on “Acute and Chronic Effects of Physical Exercise on Peripheral Vascular Function.” at XVII International Symposium of Cardiopulmonary Physiotherapy and Intensive Care Physiotherapy. Salvador, Brazil (09/04/2014).
7. **Phillips S.A.** Invited speaker on “Clinical Implications of Diet and Exercise on Microvascular Function.” at XVII International Symposium of Cardiopulmonary Physiotherapy and Intensive Care Physiotherapy. Salvador, Brazil (09/05/2014).
8. **Phillips S.A.** Invited speaker on “Exercise, Diet, and Vasodilator Function in the Microcirculation” at the Total Cardiology Symposium. Calgary, Canada (09/24/2014).
9. **Phillips S.A.** Invited speaker on “Lifestyle Implications and Microvascular Function in Obesity” at Cardiology Grand Rounds, University of Calgary, Calgary, Canada (9/30/2014).
10. **Phillips S.A.** Invited speaker on “Lifestyle Interventions and Hydrogen Peroxide: Implications for Cardiometabolic Disease” at the Department of Pharmacology, Faculty of Medicine, University of Sao Paulo, Ribeirão Preto, SP, Brazil (03/19/2015).
11. **Phillips S.A.** Invited workshop on “Cardiovascular Biomarkers and Risk Measurement Tools for Research and Rehabilitation” at the Department of Physiotherapy, Federal University of Sao Carlos, Sao Carlos, SP, Brazil (3/23/2015-3/25/2015).
12. **Phillips S.A.** Invited lecture on “Cardiovascular Biomarkers and Risk Measurement Tools for Research and Rehabilitation” at the Society of Cardiology in Sao Paulo, Sao Paulo Brazil (07/13/2015).
13. **Phillips S.A.** Invited lecture on “Evaluating Endothelial Function: Applications for Clinical Practice” at the Congress of the Society of Cardiology of Sao Paulo, Sao Paulo, Brazil. (05/27/2016).

14. **Phillips S.A.** Invited lecture on “Cardiac Rehabilitation and Exercise Prescription for Primary and Secondary Prevention” at the Congress of the Society of Cardiology of Sao Paulo, Sao Paulo, Brazil. (05/27/2016).
15. **Phillips S.A.** Invited workshop on “Cardiovascular Biomarkers and Risk Measurement Tools for Research and Rehabilitation” at the Department of Physiotherapy, Federal University of Sao Carlos, Sao Carlos, SP, Brazil (6/1/2016).
16. **Phillips S.A.** Invited speaker on “Exercise Interventions and Peripheral Arterial Function: Implications for Cardiometabolic Disease” XVIII International Symposium of Cardiopulmonary Physiotherapy and Intensive Care Physiotherapy; Congress of Brazilian Cardiovascular Physical Therapy. Belo Horizonte, MG, Brazil. (06/08/2016).
17. **Phillips S.A.** Invited speaker on “Peripheral Vascular Biomarkers in Cardiac Rehabilitation and Practice” XVIII International Symposium of Cardiopulmonary Physiotherapy and Intensive Care Physiotherapy; Congress of Brazilian Cardiovascular Physical Therapy. Belo Horizonte, MG, Brazil. (06/10/2016).
18. **Phillips S.A.** Invited speaker on “Interprofessional Education and Cardiac Rehabilitation Programs.” International symposium on Innovative Experiences in Cardiac Rehabilitation Programs. XVIII International Symposium of Cardiopulmonary Physiotherapy and Intensive Care Physiotherapy; Congress of Brazilian Cardiovascular Physical Therapy. Belo Horizonte, MG, Brazil. (06/10/2016).
19. **Phillips S.A.** Invited lecture on “Endothelial Dysfunction in Health and Disease: Implications for Exercise.” At the Department of Physiology, Federal University of Sao Carlos, Sao Paulo, Brazil. (12/05/2016).
20. **Phillips S.A.** Invited lecture on “Endothelial Dysfunction in Health and Disease: Implications for Exercise.” At the Department of Cardiology, University of Sao Paulo, Ribeiro Preto, Brazil. (12/06/2016).
21. **Phillips S.A.** Invited lecture on “Exercise and Weight Loss Uncovers Novel Vasodilator Mechanisms in Human Microcirculation.” At the Department of Pharmacology, School of Medicine, University of Sao Paulo, Ribeiro Preto, Brazil. (12/09/2016).
22. **Phillips S.A.** Invited workshop on “Cardiovascular Risk Biomarkers in Rehabilitation.” At the Department of Rehabilitation Sciences at the Universidade de Nove de Julho, Sao Paulo, Brazil (04/11/2017).
23. **Phillips S.A.** Invited lecture on “Cardiovascular Risk Markers in Rehabilitation.” At the School of Physical Education and Physical Therapy, Federal University of the Amazonas, Manaus, Brazil (06/12/2017).

National

1. **Phillips S.A.** “Exercise, Oxidative Stress and Endothelial Function in Humans.” at the American College of Sports Medicine: Integrative Physiology of Exercise Meeting, Indianapolis, IN, (9/28/2006-9/31/2006).
2. **Phillips S.A.** “The Effects of Acute Exertion on Human Endothelial Function.” at Experimental Biology, San Diego, CA, (4/9/2008).
3. **Phillips S.A.**, “Obtaining a Mentored Award: An Awardees Perspective.” at the American College of Sports Medicine, Seattle, WA, 2009.
4. **Phillips S.A.** “Submitting an R01 Proposal.” at the NIH National Heart, Lung, and Blood Institute Clinical (K23) Awardees Meeting: Planning for Independence, Washington, DC, 2011.

5. Martino S and **S.A. Phillips**, Invited pre-conference course on “Assessment and treatment of the obese patient across the lifespan: The role of physical therapy” at the Combined Sections meeting of the APTA, San Diego, CA. January 21, 2013.
6. Martino S. and **S.A. Phillips**, Course on “Evidence Based Practice for the Prevention and Treatment of Cardiovascular Disease across the Lifespan” at the American Congress of Rehabilitation Medicine, Dallas, TX, 2015.
7. Martino S. and **S.A. Phillips**, Lecture on “Evidence Based Practice for the Prevention and Treatment of Cardiovascular Disease across the Lifespan” at the Combined Sections meeting of the APTA, Anaheim, CA, 2016.
8. Phillips S.A. Symposium speaker on “Overview of Health Technologies and Management of Non-communicable, Chronic Disease” at the American Congress on Rehabilitation Medicine, Chicago, IL, 2016.

Invited Seminars and Lectures (Local and National)

1. **Phillips S.A.**, “Effect of Temperature and pH on Skeletal Muscle Fatigue in Rat Soleus Muscle” *Howard Hughes Undergraduate Summer Research Training Seminar*, Marquette University-Biology Department, Milwaukee, WI; 1997.
2. **Phillips S.A.**, “Role of Angiotensin Receptors in Peripheral Vascular Function” in the Department of Physiology, Medical College of Wisconsin, Milwaukee, WI; 2001.
3. **Phillips S.A.**, “The Role of the Angiotensin AT₁ receptor in Altered Reactivity of Skeletal Muscle and Cerebral Resistance Arteries” in the Department of Physiology, Medical College of Wisconsin, Milwaukee, WI; 2002.
4. **Phillips S.A.**, “Angiotensin AT₁ Receptor Activation Maintains the Normal Mechanisms of Vascular Relaxation” in the Department of Physiology, Medical College of Wisconsin, Milwaukee, WI; 2003.
5. **Phillips S.A.**, Invited lecture on “The Renin Angiotensin System Maintains the Normal Mechanisms of Vascular Relaxation” in the School of Veterinary Medicine, University of Wisconsin, Madison, WI; 2003.
6. **Phillips S.A.**, Invited lecture on “Vascular Function in Health and Disease” in the Department of Physical Therapy, University of Illinois at Chicago, Chicago, IL; 2003
7. **Phillips S.A.**, Invited lecture on “The Role of the Renin Angiotensin System in Vascular Disease” in the Department of Physical Therapy, University of Illinois at Chicago, Chicago, IL; 2004.
8. **Phillips S.A.**, Invited lecture on “Vascular Consequences of Obesity and Exercise” in the Department of Human Nutrition, University of Illinois at Chicago, Chicago, IL; 2005.
9. **Phillips S.A.**, Invited lecture on “Vascular Consequences of Diet and Exercise: Oxidative Stress and Human Endothelial Function” University of Wisconsin-Milwaukee in the Department of Human Movement Sciences, Milwaukee, WI; 2007.
10. **Phillips S.A.**, “The Effects of Low Carbohydrate and Low Fat Diets on Vascular Endothelial Function” in the Division of Pulmonary Medicine, Medical College of Wisconsin, Milwaukee, WI; 2007.
11. **Phillips S.A.**, “Oxidative Stress and Human Endothelial Function: Implications of Diet and Exercise” in the Division of Geriatrics, Medical College of Wisconsin, VA Medical Center-Milwaukee, WI; 2007.

12. **Phillips S.A.**, “Oxidative Stress and Human Endothelial Function: Implications of Diet and Exercise” in the Division of Cardiovascular Medicine, Medical College of Wisconsin, Milwaukee, WI; 2007.
13. **Phillips, S.A.**, “Exercise and Vascular Health: Is there Ever too much of a Good Thing?” in the College of Medicine, Clinical and Translational Scholars Program, University of Illinois at Chicago, Chicago, IL; 2007.
14. **Phillips S.A.**, Invited panel discussion on “Overcoming Research Pitfalls” in the UIC School of Public Health, Center for Clinical and Translational Sciences Intensive Summer Program in Clinical and Translational Research, Chicago, IL; 2008.
15. **Phillips, S.A.**, “Oxidative Stress and Human Endothelial Function: Implications for Diet and Exercise” in the Department of Community and Physical Medicine (Division of Physical Therapy), Duke University, Durham, NC, 2008.
16. **Phillips, S.A.**, “Exercise, Diet, and Endothelial Function: Is there Ever too Much of a Good Thing?” in the Department of Physical Therapy, University of Illinois at Chicago, Chicago, IL 2008.
17. **Phillips, S.A.**, “Writing for the Reviewer: Strengthening your NIH Mentored K Proposal” in Office of the Vice Chancellor for Research, University of Illinois at Chicago, Chicago, IL, 2008.
18. **Phillips, S.A.**, “Effects of Exercise and Diet on Macro- and Micro- Vascular Function: Mechanisms and Implications.” In the Department of Kinesiology, Cardiovascular Seminar Series, University of Illinois at Urbana-Champaign, Urbana, IL, September 18, 2009.
19. **Phillips, S.A.**, “The Effects of Exercise on Macro- and Micro- Vascular Endothelium” in the College of Medicine, Grand Rounds, Division of Metabolism and Endocrinology, University of Illinois at Chicago, Chicago, IL, 2009.
20. **Phillips, S.A.**, Moderator of the Career Development Session entitled, “Writing for the Reviewer: Strengthening your NIH Mentored K Proposal” in the Office of the Vice Chancellor for Research, University of Illinois at Chicago, Chicago, IL, 2009.
21. **Phillips S.A.**, Wound Healing Seminar Series Lecture entitled, “Exercise and Vascular Endothelium: Role of Reactive Oxygen Species.” In the Center for Wound Healing and Tissue Regeneration, College of Dentistry, University of Illinois at Chicago, Chicago, IL October 15, 2009.
22. **Phillips S.A.**, “Exercise and Diet for Macro- and Micro- Vascular Function: Mechanisms and Implications.” In the Department of Kinesiology and Nutrition Seminar Series, University of Illinois at Chicago, Chicago, IL, October 16, 2009.
23. **Phillips S.A.**, Exercise, “Diet, and Human Endothelial Function: Mechanisms and Implication.” Invited presentation in the Department of Cellular and Integrative Physiology, Indiana University School of Medicine, Indianapolis, IN, March 9, 2010.
24. **Phillips S.A.**, “Exercise, Diet, and Human Endothelial Function: Mechanisms and Implications” in the Department of Pathology Seminar, University of Illinois at Chicago, College of Medicine, Chicago, IL September 18, 2011.
25. **Phillips S.A.** and Corcos D., “Optimizing the Grant Submission and Resubmission Process” in the Department of Physical Therapy, University of Illinois at Chicago, Chicago, IL September 23, 2011.
26. **Phillips S.A.**, Invited lecture on “Impact of Exercise and Diet on Vascular Function: Mechanisms and Implications” in the Department of Physical Therapy. University of Alabama-Birmingham, Birmingham, AL. 2012
27. **Phillips S.A.**, Invited lecture on “Impact of Exercise and Diet on Vascular Function: Mechanisms and Implications” in the Division of Physical Therapy, Department of Physical Medicine and Rehabilitation, Medical School, University of Minnesota, Minneapolis, MN. 2012.

28. **Phillips S.A.**, Invited lecture on “Hydrogen Peroxide and Vasodilator Plasticity in the Microcirculation” AHS College Researcher of the Year Award lecture, University of Illinois at Chicago, Chicago, IL 2013.
29. **Phillips S.A.**, Invited speaker on “The Importance of Physical Activity for Vascular Health” American Heart Association-Global Congress on Exercise, Scientific Sessions, Dallas, TX 2013.
30. **Phillips S.A.**, Invited speaker on “Midlife Adulthood: Interventions to Promote Physical Activity in Overweight and Obese Adults” American Heart Association-Global Congress on Exercise, Scientific Sessions, Dallas, TX 2013.
31. **Phillips S.A.**, Invited speaker on “Exercise and Vascular Endothelial Function” at the American Heart Association Scientific Session, Chicago, IL. 2014.
32. **Phillips S.A.**, Invited speaker on “Exercise, Diet, and Vasodilator Plasticity in the Microcirculation” at Texas A&M University, College Station, TX. 2014.
33. **Phillips S.A.**, Invited speaker on “Basics of Preparing and Writing a Winning Early Career Grant Application” at the University of Illinois at Chicago Post-doctoral Association Seminar, Chicago, 2015.
34. **Phillips, S.A.** Invited workshop speaker on “Basics of Preparing and Writing a Career Development Award: Perspectives, Strategies, and Basic Components.” NIH K12 Neurosurgery Scholars Session, Chicago, IL 2015.
35. **Phillips S.A.**, Invited lecture on “Introduction to Writing Effective Specific Aims.” at the University of Illinois at Chicago Future in Science Seminar, Chicago, 2016.
36. **Phillips S.A.** Invited Health and Rehabilitation Science Graduate Student Seminar Speaker on “Exercise, Diet and the Mechanisms of Vasodilator Function: Translational Mechanisms” for Cardiovascular Disease, Stony Brook University and Medical Center, Stony Brook, NY. 2016.
37. **Phillips S.A.** Invited seminar on “Exercise, Diet, and the Mechanisms of Human Arterial Function” for the Cardiovascular Center, Medical College of Wisconsin, Milwaukee, WI. 2016.
38. **Phillips S.A.** Invited seminar on “Exercise Interventions and Arterial Function Testing in Cardiac Rehabilitation Research and Practice” for the Department of Physical Therapy, Marquette University, Milwaukee, WI. 2016.
39. **Phillips S.A.** Invited seminar on “Exercise and Weight Loss Uncovers Novel Vasodilator Mechanisms in the Microcirculation” for the Department of Bioengineering, University of Texas at Arlington, Arlington, TX. 2016.
40. **Phillips S.A.** Invited speaker on “Effect of Exercise and Shear Stress on Vascular Mitochondria” at Symposium on Mitochondrial Redox Signaling and Vascular Function in Health and Disease, American Heart Association Scientific Session, Chicago, IL. 2016.
41. **Phillips, S.A.** Invited speaker on “Role of H₂O₂ in Exercise Induced Vasodilation in the Human Microcirculation” at the Center for Cardiovascular Research, University of Illinois at Chicago, Chicago, IL 2017.
42. **Phillips, S.A.** Invited speaker on “Exercise and Weight Loss uncovers Novel Mechanisms of Vasodilation in the Human Microcirculation” Department of Medicine, Division of Asthma, Pulmonary and Critical Care, University of Illinois at Chicago, Chicago, IL 2017.
43. **Phillips, S.A.** Invited seminar speaker on “Mechanisms of Vasodilator Plasticity Following Exercise and Elevated Pressure in the Human Microcirculation” Department of Medical Physiology, Texas A and M University, College Station, TX. 2019.

PEER REVIEWED WORKSHOPS/PRESENTATIONS:

National

1. **Phillips, S.A.** and J.C. Frisbee. “Superoxide Scavengers Restore Impaired Vasodilator Reactivity in Obese Zucker Rats” at Experimental Biology 2004, Washington, D.C., 2004.
2. **Phillips, S.A.** Kulinski J.P., Syed A.Q., Syed A., Pleuss J., Jurva J.W., D.D. Gutterman. “Do Low Fat and Low Carbohydrate Diets Show Similar Improvement in Endothelial Function?” at Experimental Biology 2006, San Francisco, CA, 2006.
3. **Phillips, S.A.** “Chronic Exercise Protects against Macro- and Micro- vascular Endothelial Dysfunction Induced by Acute Hypertension during Exertion” at American Heart Association Scientific Sessions 2007, Orlando, FA, 2007.
4. **Phillips, S.A.** “The Effects of Acute Exertion on Human Endothelial Function” at Experimental Biology 2008, San Diego, CA, 2008.
5. **Phillips, S.A.** “Reduced leptin and resistin and increased adiponectin are associated with improved endothelial function during weight loss with low fat compared to low carbohydrate diets” at Experimental Biology 2010, Anaheim, CA, 2010.
6. **Phillips S.A.** and Vuckovic K. Invited presentation on “Research on Exercise Interventions on Peripheral Vascular Health in Patients with Heart Failure: Methods and Clinical Implications,” at the American Physical Therapy Association meeting, Bar Harbor, MD, 2011.
7. Franklin N.C., M. Ali, M. Goslawski, **S. A. Phillips**. Reduced Brachial Artery Smooth Muscle Function after Acute Exhaustive Resistance Exercise in Obesity. *APTA Combined Sections Meeting* (platform presentation). Chicago, IL. 2012.
8. Szczurek M., J.T. Bian, C. Ranieri, I. Grizelj, A. Cavka, A. Robinson, **S.A. Phillips**. Hypocaloric, but not Isocaloric, Low Fat Diets Improve in Microvascular Nitric Oxide Dependent Vasodilator Responses, American Heart Association Scientific Sessions, Dallas, TX, 2013.

Regional

1. **Phillips S.A.** and J.H. Lombard, Presentation on “Impairment of Hypoxia Induced Dilation of Skeletal Muscle Resistance Arteries in Losartan Treated Rats” at Midwest Physiological Society 2001, University of Wisconsin, Madison, WI.
2. **Phillips, S.A.**, Syed AQ, Syed A, Pleuss J, Jurva JW, DD Gutterman. Oral presentation on “The Acute Effect of Weight Lifting on Vascular Endothelial Function.” at the Iowa Physiological Society Annual Meeting, West Branch, IA. 2005.

TEACHING ACTIVITIES AND PROGRAMMATIC DEVELOPMENT:

Medical School Education

01/2002 – 05/2004 Laboratory Instructor, M1 *Medical Physiology* Course Department of Physiology, Sessions: skeletal muscle physiology, exercise physiology, circulatory control.

05/2005 – present MCW/Medical Student Summer Research Program (Research Mentor)
Medical Student Honors Thesis Advisor

Resident and Fellow Education-Medical College of Wisconsin and UIC

2006 – 2009 Supervisor, Resident and Fellows Clinical Research
During Research Rotation Months in Cardiology, Pediatric
Endocrinology, and Surgery

- 1-2 students/month + 3-4 fellows/month
- On-going guidance re: research design, IRB, procurement of resources/funding, subject recruitment, data analysis and reporting

2006 - 2007 Lecturer, “Translational Research Opportunities in Cardiovascular
Medicine”
Cardiology Fellowship Program: Core Cardiology Curriculum,
Department of Medicine

01/2008 – present Lecturer, Division of Metabolism and Endocrinology
Endocrinology Fellowship Program
Department of Medicine
University of Illinois at Chicago

08/2010 – present Faculty Research Mentor, Division of Metabolism and Endocrinology
Fellowship Program
Department of Medicine
University of Illinois at Chicago

Graduate Student Education

2006 – 2007 Invited Lecturer, “Regulation of Vascular Health during Exercise and
Weight Loss”
MCW; Population Health and Epidemiology Seminar Series. Division of
Epidemiology.

2009 Invited Panel Member, “Career Development Training and Mentoring
Plans”
K30 program, HPA 590: Grant Writing
Institute for Health and Research Policy
University of Illinois at Chicago

2009- present Preliminary/Dissertation Examination Committee
PhD program in Kinesiology, Nutrition, and Rehabilitation
Graduate College, University of Illinois at Chicago

2009– present Preliminary/Dissertation Defense Examination Committee
PhD program in Nursing, Department of Biobehavioral Sciences, College
of Nursing, University of Illinois at Chicago

OTHER TEACHING EXPERIENCE

Marquette University

07/2001 – 06/2006

Course Title

Laboratory Teaching:

Laboratory instructor, Department of Physical Therapy

Physiology of Activity

- Exercise Testing and Assessment
- Cardiac Output and Hemodynamic testing
- Nutrition Analysis and Anthropometric testing

07/2001 – 07/2004

Course Title:

Lectures:

Invited Lecturer, Department of Physical Therapy

Physical Agents and Wound Healing.

- Growth Factors: Implications for Wound Healing
- Hyperbaric Oxygen and Vacuum Assisted Closure in Wound Healing
- Inflammation and the Healing Response
- Nutrition and Wound Healing

05/2001 to 05/2003

Course Title:

Lectures Taught:

Lecturer, Department of Physical Therapy

Human Physiology, Health Career Opportunity Program

Basic concepts for neurological, muscle, lung, kidney, and cardiovascular physiology

08/2002 – 08/2002

Course Title:

Lectures:

Lecturer, Course Director

Pathophysiology in Acute Care and Medicine

- Basic Pharmacology and Implications for Rehabilitation
- Physiological Basis of Trauma and Shock Medicine
- Cardiovascular Disease Pathology
- Disease Pathogenesis affecting Multiple Systems
- Pathology of Arthritis and Rheumatoid Conditions
- Oncology and Immunology: Concepts for Rehabilitation
- Diabetes and Diabetic Complications

01/2003 – 05/2003

Course Title:

Lectures:

Lecturer and Course Director; Graduate School of Nursing

Physiological Concepts for Advanced Nursing Practice

Advanced topics in each of the following major units: Cellular Physiology, Cardiovascular Physiology, Respiratory Physiology, Renal Physiology, Endocrine Physiology, Gastrointestinal Physiology, Reproductive Physiology, Hematology, Immunology, Inflammation and Wound Healing

08/2003 – 12/2003

Course Title:

Lectures:

Lecturer and Co-course director, Department of Physical Therapy

Medicine and Surgery: Rehabilitation

- Exercise and Disease Management
- Obesity and Kidney Disease
- Cardiovascular and Pulmonary Disease
- Peripheral Vascular Disease and Diabetes

04/2006

Invited Lecture, Department of Physical Therapy

- Course Title: **Pathophysiology**
Lecture: ○ Physiology of pregnancy and implications for exercise

University of Illinois, Chicago

- 05/2004 – 2015 Instructor and Course Director, Department of Physical Therapy
Course Title: **Cardiopulmonary Dysfunction**
Lectures: Cardiac and Pulmonary Physiology and Pathology
○ Metabolism and Physiological Responses to Trauma
○ Physiological Responses to Exercise
○ Pathophysiology of Inactivity
○ Cardiac Measures and Basic ECG
○ Cardiac Assessment: Heart Sounds and Exercise Testing
○ Obesity: Physical Therapy Implications
○ Cardiac and Pulmonary Rehabilitation
○ Pulmonary Physical Therapy Assessment
○ Cardiovascular and Pulmonary Pharmacology
- 09/2006 – present Invited Lecturer, Department of Physical Therapy
Course Title: **Applied Pathophysiology**
Lectures: ● Exercise Implications and Diabetes
● Exercise implications during renal, hepatic, and GI disease
- 01/2008 – present Instructor and Director, Department of Physical Therapy
Course Title: **Independent Study in Physical Therapy**
Lectures and Instruction: ● Laboratory Methods in Vascular Biology, Exercise, and Nutrition
- 02/2008 Guest Instructor, College of Nursing
Course Title: **Laboratory Methods in Nursing**
Lectures: ● Vascular Biology Methods
- 08/2008 – present Course Director and Instructor
Course Title: **Special Topics in Physical Therapy: Current Concepts in Vascular Biology**
Topics: ● Vascular Biology Research
- 09/2008 Invited Lecturer, College of Nursing
Course Title: **Stress and Health Outcomes**
Lectures: ● Exercise Hypertension and Vascular Function
- 03/2009, 03/2011 Invited Lecturer, Department of Kinesiology and Nutrition
Course Title: **Nutrition, Physiological Aspects**
Lectures: ● Nutrition and Vascular Biology
- 04/2009, 3/2012 Invited Lecturer, Department of Kinesiology and Nutrition
Course Title: **Exercise Biology in Health and Disease**
Lectures: ● Vascular Injury and Repair
- 09/2009 – present Invited Lecturer, Department of Physical Therapy
Course Title: **Introduction to Physical Therapy**
Lectures: ● Vital Signs

2010, 2012, 2014, 2016	Course Director and Instructor
<i>Course Title</i>	Advances in Rehabilitation Sciences II
<i>Lectures</i>	<ul style="list-style-type: none">• Overview of Inflammation: Impact on Injury and Cardiovascular• Cardiovascular and Pulmonary Physiology of Rehabilitation
01/2015 – 05/2015	HPA 590; Course director and instructor, Center for Clinical and Translational Sciences, School of Public Health, College of Medicine, UIC
<i>Course Title:</i>	Grant Writing for New Investigators
	<ul style="list-style-type: none">• Designed and Directed a practical Grant Writing course for Clinical Research Scholars, Fellows and Junior Faculty

STUDENTS, FACULTY, RESIDENTS AND CLINICAL/RESEARCH FELLOWS MENTORED:

Undergraduate

08/2007 – 09/2009	Elise Kasper, UIC College of Applied Health Sciences, Department of Kinesiology and Nutrition (Class of 2009)
<i>Mentorship Role:</i>	<ul style="list-style-type: none">• Advanced research and independent study
01/2009 – 05/2010	Tselmeg Ulziibay, UIC College of Applied Health Sciences, Department of Kinesiology and Nutrition (Class of 2009)
<i>Mentorship Role:</i>	<ul style="list-style-type: none">• Advanced research and independent study
01/2010 – 12/2012	Mary Szcurek, UIC College of Liberal Arts and Sciences, Department of Biological Sciences
<i>Mentorship Role:</i>	<ul style="list-style-type: none">• Advanced research and independent study• Honors college capstone supervisor• Project Title: The Effects of Saturated Fat and Alcohol Consumption on Flow-Mediated Dilation of the Brachial Artery in Young Adults
01/2011 – 05/2011	Andrew Skoirchet, UIC College of Applied Health Sciences, Department of Kinesiology and Nutrition (Class of 2012)
<i>Mentorship Role:</i>	<ul style="list-style-type: none">• Advanced undergraduate research and independent study (PT 596: Independent Study) on exercise in chronic kidney disease
01/2011 – 05/2011	Ronny Harag, UIC College of Applied Health Sciences, Department of Kinesiology and Nutrition (Class of 2012)
<i>Mentorship Role:</i>	<ul style="list-style-type: none">• Advanced undergraduate research and independent study (KN 396: Independent Study in Kinesiology) on protein supplementation and exercise in dialysis patients
01/2011 – 05/2012	Edita Norkeviciute, UIC College of Applied Health Sciences, Department of Kinesiology and Nutrition
<i>Mentorship Role:</i>	<ul style="list-style-type: none">• Advanced undergraduate research and independent study (KN 396: Independent Study in Kinesiology) on

- 01/2011 – 12/2011 resistance exercise training and vascular function.
Zahra Walji, UIC College of Liberal Arts and Sciences,
Department of Biological Sciences
Mentorship Role:
- Advanced undergraduate research mentor and independent study (Bios 399: Independent Study in Research)
 - Project title: Combating Atherosclerosis by Inhibiting the Functionality of Heparan Sulfate Proteoglycans
- 02/2011 – 2013 Daria Shor, UIC College of Applied Health Sciences,
Department of Kinesiology and Nutrition
Mentorship Role:
- Advanced undergraduate research mentor and independent study; Capstone project mentor
 - Project title: Evaluating the amount of change in macronutrient intake as a predictor of subject compliance within a dietary study
 - Results presented at the 2012 Kinesiology and Nutrition Symposium (Spring)
- 10/2011 – present Gordon Marsh, UIC College of Liberal Arts and Sciences,
Department of Biological Sciences
Mentorship Role:
- Advanced undergraduate research mentor
- 10/2012 – present Kevin Li, UIC College of Applied Health Sciences,
Department of Kinesiology and Nutrition
Mentorship Role:
- Advanced undergraduate research mentor and independent study
 - Chancellors undergraduate research fellowship
 - UIC student research presentation award
- 08/2017 to present Assem Allythy, Project on microvascular function
- Master of Science**
- 08/2010 – 08/2012 Melissa Goslawski, UIC College of Applied Health Sciences, Department of Physical Therapy (M.S. in Rehabilitation Sciences).
Mentorship Role:
- Thesis Chair and Mentor
 - Thesis title: Binge Drinking Impairs Endothelial Function in Young Health Subjects
- 08/2010 – 05/2013 Jeff Clark PT, MBA, UIC College of Applied Health Sciences, Department of Physical Therapy (M.S. in Rehabilitation Sciences)
Mentorship Role:
- Thesis Chair and Mentor
 - Thesis title (tentative): Osteoarthritis, Inflammation, and the Susceptibility to Impaired Vascular Function
- 01/2011 – 05/2013 Sarah Schwab, UIC College of Applied Health Sciences,
Department of Kinesiology and Nutrition
Mentorship Role:
- Research Project co-mentor with Dr. Tim Koh
 - Project title (tentative): Macrophage and lymphocyte infiltration in human perivascular fat

- 01/2011 – 05/2011 Erica Weinandy, UIC College of Applied Health Sciences, Department of Kinesiology and Nutrition (M.S. Nutrition; Class 2012)
- Mentorship Role:*
- Advanced research and independent study (PT 596: Independent Study) on protein supplementation in chronic kidney disease
- 01/2011 – 05/2011 Christine Ranieri, UIC College of Applied Health Sciences, Department of Kinesiology and Nutrition
- Mentorship Role:*
- Graduate assistant and independent study on food and diet design for weight loss and vascular health
- 08/2011 – present Connie Casale, UIC College of Applied Health Sciences, Department of Physical Therapy, M.S. Rehabilitation Sciences program
- Mentorship Role:*
- M.S. Research project supervisor on resistance exercise training in COPD
- 07/2011 – 04/2012 Austin Robinson, UIC College of Applied Health Sciences, Department of Kinesiology and Nutrition
- Mentorship Role:*
- Research project supervisor (KN 496: Special Projects in Kinesiology)
 - Project title: Efficacy of Massage Therapy on Inflammation after Exhaustive Exercise
- 01/2013 – 08/2014 Mary Szczurek, UIC College of Applied Health Sciences, Department of Physical Therapy, M.S. Rehabilitation Sciences program
- Mentorship Role:*
- Thesis Chair, Mentor, Academic Advisor
 - Thesis Title: The Effects of Vitamin D on Microvascular Endothelial Function in Obese Adults
- 08/2013 – 05/2015 Shruti Shinde, UIC College of Applied Health Sciences, Department of Physical Therapy, M.S. Rehabilitation Sciences program
- Mentorship Role:*
- Project Supervisor, Mentor, Academic Advisor
 - Project Title: Exercise and Microvascular Function in Bariatric Patients
- 08/2013 – 05/2015 Po-an Tsai, UIC College of Applied Health Sciences, Department of Physical Therapy, M.S. Rehabilitation Sciences program
- Mentorship Role:*
- Project Supervisor, Mentor and Academic Advisor
 - Shear stress, endothelial cells, and ecSOD expression
- 08/2014 – 08/2016 Saleh Y. Alshammari, PT, UIC College of Applied Health Sciences, Department of Physical Therapy, M.S. Rehabilitation Sciences program
- Mentorship Role:*
- Mentor, Academic Advisor, and Thesis Supervisor
 - Thesis Title: The Effect of Kinetic Dance Training in Brachial Artery Flow-mediated Dilatation after Chronic Stroke
- 08/2014 – 07/2017 Vanessa Isles, UIC College of Applied Health Sciences,

Department of Physical Therapy, M.S. Rehabilitation Sciences program

- Mentor and Academic and Research Project Advisor
- Project Title: Anthropometric, Cardiometabolic, and Exercise Capacity Measurements among US Adults of Overweight and Obesity – A Focus on the Lower Extremity Function Scale (LEFS)

08/2015 – present

Crystal Adamos, UIC College of Applied Health Sciences, Department of Physical Therapy, M.S. Rehabilitation Sciences program

- Mentor, Academic Advisor, and Thesis Supervisor
- Thesis Title: Dyslipidemia and Endothelium

08/2016 – present

Awani Gokhale, UIC College of Applied Health Sciences, Department of Physical Therapy, M.S. Rehabilitation Sciences program

Mentorship Role Mentor, Academic Advisor

Project Title: Bariatrics Weight Loss Surgery and Hypertension Medication Status

08/2016 – present

Pedram Ahmadnezhad, UIC College of Applied Health Sciences, Department of Physical Therapy, M.S. Rehabilitation Sciences program

Mentorship Role: Mentor and Research Project Advisor

Project Title: Effect of Weight Loss Surgery on Blood Pressure in Men and Women

08/2017 – present

Oluwayomi Omosebi, UIC College of Applied Health Sciences, Department of Physical Therapy, M.S. Rehabilitation Sciences program

Mentorship Role: Mentor and Research Project Adviosr

Project Title: Exercise training and Ambulatory Blood Pressure in African American and Caucasian Adults

Physical Therapy Doctoral Students

01/2009 – 05/2011

Jessie Pipal, UIC Doctor of Physical Therapy (Class of 2011)

Mentorship Role: • Advanced research project

- Research study design and data analysis

09/2009 – 05/2012

Patrick McGinty, UIC Doctor of Physical Therapy (Class of 2012)

Mentorship Role: • Advanced research project and data analysis

- Poster presentation at UIC student forum

08/2011 – 05/2013

Mayumi Barack, UIC Doctor of Physical Therapy (Class of 2013)

Mentorship Role: • Advanced research project and data analysis

- Independent study (PT 596) on the effects of ACL injury on peripheral vascular function

06/2011 – 05/2015

Edita Norkeviciute, UIC Doctor of Physical Therapy (Class

- of 2015)
- Mentorship Role:*
- Advanced research and data analysis
 - Project on the effects of massage on blood flow and vascular function after muscle exertion.
 - Co-author on 2 abstracts presented at national conferences
 - Co-author on 2 manuscripts
- 09/2013 – 05/2015
Lauren Neuvoral, UIC Doctor of Physical Therapy (Class of 2015)
- Mentorship Role:*
- Nutrition, research design and vascular analysis
 - Co- author of 1 manuscript
- 05/2016 –12/2017
Michael Durrant, UIC Doctor of Physical Therapy (Class of 2018), Certificate in Clinical Rehabilitation Research and Technology
- Mentorship Role*
- Vascular Analysis, Regulatory and Clinical Study Design
- 05/2016 - present
Taylor Trapp, UIC Doctor of Physical Therapy (Class of 2018), Certificate in Clinical Rehabilitation Research and Technology
- Mentorship Role*
- Project on Differential Blood Pressure Responses to Maximum Exercise
- Medical Students**
- 05/2005 – present
Jacquelyn Kulinski (Class of 2008)
- Project Title:* The effects of low carbohydrate and low fat diets on endothelial function
- Mentorship Roles* Summer student research mentor
Honors thesis research candidate
- Outcome:*
- Abstract/Poster Presentation at local Medical Student Research Program
 - Oral presentation at national medical student scientists meeting (Omaha, Nebraska)
- 05/2006 – present
Jesse Stringer (Class of 2009)
- Project Title:* The protective effect of endurance exercise on vascular endothelial health
- Mentorship Roles:*
- Summer student research mentor
- Outcome:*
- Abstract/Poster presentation at Medical Student Research Program
- 05/2006 – 09/2006
Sarah Lauck (Class of 2009)
- Project Title:* Sustained effects of exercise-induced hypertension on the endothelium
- Mentorship Role:*
- Summer student research mentor
- Outcome:*
- Abstract/Poster presentation at Medical Student Research Program
- 05/2007 – 09/2007
Krupa Patel (Class of 2010)
- Project Title:* Protective Effect of Exercise against Vascular Endothelial Dysfunction Induced by Oral Glucose and High Fat Load

- Mentorship Role:* • Summer student research mentor
Outcomes • Abstract/Poster Presentation at Medical Student Research Program
• Funding: National Heart Lung Blood Institute Training Grant (5 T35 HL72483-25)
- 05/2007 – 09/2007 Lindsey Rasmussen (Class of 2010)
Project Title: The Use of Antioxidants to Reduce Tissue Damage from Ischemia-reperfusion Injury in a Swine Model
- Mentorship Role:* • Summer student research mentor
Outcomes • Abstract/Poster Presentation at Medical Student Research Program
• Funding: National Heart Lung Blood Institute Training Grant (5 T35 HL72483-25)
- 12/2011 – 08/2012 Rasheed A. Sanyaolu (UIC class of 2015)
Project Title: The effects of Binge Drinking on Vascular Reactivity and Function
- Mentorship Role:* • Summer medical student research project co-mentor with Dr. Mariann Piano (Nursing)
Outcome • Summer Craig Fellowship award funded by the UIC College of Medicine
- Clinical Fellows**
- 11/2005-6/2007 Stacey Gardiner, MD, Cardiology Fellow
Project Title: Vascular effects of oral glucose and high fat loading in athletes
- Mentorship Role:* • Focused Guidance re: reporting and design for translational research and medicine
- 03/2006 – 5/2007 Ghufuran Babar, MD, Pediatric Endocrinology Fellow
Project Title: Prevalence of endothelial dysfunction, increased carotid artery intima-media thickness and biomarkers of vascular inflammation in preadolescents with type 1 diabetes mellitus
- Mentorship Role:* • Focused guidance in study design and training in translational vascular research technologies
Outcomes: • IRB submission
- 09/2006 – present Jennifer Strande MD, Ph.D., Cardiology Research Fellow
Project Title: Expression and function of protease-activated receptors in human adipose microcirculation
- Mentorship Role:* • Focused guidance in experimental design of human/translational molecular studies
- 08/2006 – 08/2007 Stephen Lanzarotti, MD, Trauma and Critical Care Fellow
Project Title: The use of antioxidants to reduce tissue damage in ischemia-reperfusion injury
- Mentorship Role:* • Focused guidance in study design and molecular/physiological/biochemical testing
• Procurement of funding and resources
- 11/2009 – 05/2010 Siddique Abbasi, MD, Cardiology Fellow UIC
Project Title: Acute Exercise, Heart Failure. and Endothelium

8/2010 – 07/2012 Avni Vora, MD, Endocrinology, Diabetes, and Metabolism
Fellow UIC
Project Title: Weight loss, lipid metabolism, and endothelial function

Residents

08/2006 – 05/2007 Aaron Perme, MD, Surgery Resident, Medical College of
Wisconsin
Project Title: The effects of ethyl pyruvate upon splanchnic microvascular
reactivity and the inflammatory response in a hemorrhagic
shock swine model

Mentorship Role:

- Guidance and training in molecular and physiological studies on shock and trauma
- Biochemical analysis and study design

05/2012 – 08/2014 Paulina Cruz, MD, Internal Medicine Resident, Advocate
Christ Medical Center

Mentorship Role:

- Guidance and training in vascular biology during obesity
- Faculty supervisor and mentor for research rotation requirements in internal medicine

Post doctoral Research Fellows Mentored

2011- 2012 Ivana Grizelj, MD
2011 – 2012 Ana Cavka, MD
2013 – 2014 Nina Franklin, PhD
2014 – present Ibra Fancher, PhD
2015 - present Abeer Mahmoud MD, PhD
2018-2019 Andréa Gonçalves da Silva, PT, PhD
2019 Chueh-Lung Hwang, PT, PhD

PhD Students Mentored

01/2007 – 05/2010 James Schmidt, PhD, Department of Physiology, Medical
College of Wisconsin

Mentorship Role:

- Dissertation Committee Member (external evaluator)

01/2008 – 05/2013 Karen Vuckovic, RN, APN, UIC College of Nursing

Mentorship Role:

- Applied Health Science Independent Study in Vascular Biology Techniques (PT 595)
- PhD preliminary exam and dissertation committee (Chair: Mariann Piano)

Project: Dyspnea in Heart Failure with a Preserved Ejection Fraction (HF-PEF)

Outcomes:

- Manuscript in preparation

08/2008 – 08/2012 Nina Franklin, MS, UIC College of Applied Health
Sciences

Mentorship Role:

- PhD Advisor and Committee Chair

Project Title: The Effects of Resistance Exercise Training on Vascular
Endothelial Dysfunction in Overweight and Obese,

		Sedentary Adults
2009	<i>Outcomes:</i>	<ul style="list-style-type: none"> • 4 manuscripts published • 7 abstract presentations as co-author Dana DiPasquale, MS, Department of Kinesiology and Nutrition, University of Illinois at Chicago
	<i>Mentorship Role:</i>	<ul style="list-style-type: none"> • PhD dissertation Committee Member (Chair: Dr. Tim Koh)
2010 – 2013		Surabhi Bhutani, Department of Kinesiology and Nutrition, University of Illinois at Chicago
	<i>Mentorship Role:</i>	<ul style="list-style-type: none"> • PhD dissertation Committee Member (Chair: Dr. Krista Varady)
	<i>Project:</i>	<ul style="list-style-type: none"> • Effects of Weight Loss induced by Alternative Day Fasting and Exercise on Cardiac Risk Factors
2009- 2013		Monica Klempel, Department of Kinesiology and Nutrition, University of Illinois at Chicago
	<i>Mentorship Role:</i>	<ul style="list-style-type: none"> • PhD preliminary exam and dissertation committee member (Chair: Dr. Krista Varady)
	<i>Project:</i>	Effects of alternate day fasting, with a low fat versus high fat background diet, on weight loss and coronary heart disease risk reduction in obese adults
08/2010 – 05/2016		Mohammed Ali, MD, Department of Physical Therapy, University of Illinois at Chicago, Rehabilitation Track
	<i>Mentorship Role:</i>	<ul style="list-style-type: none"> • PhD Advisor and Committee Chair
	<i>Project:</i>	Vascular Glycobiology and Oxidative Stress and Endothelial Dysfunction, a Potential Therapeutic Target
05/2011 – 10/2013		Joshua Butcher
	<i>Mentorship Role:</i>	<ul style="list-style-type: none"> • PhD committee external evaluator (West Virginia University; Chair: Dr. Jefferson Frisbee)
	<i>Project:</i>	Regulation of Vascular Tone in Metabolic Syndrome
06/2011 – 12/2012		Sambit Mohapatra, Department of Physical Therapy, University of Illinois at Chicago
	<i>Mentorship Role:</i>	<ul style="list-style-type: none"> • PhD preliminary exam and dissertation committee
	<i>Project:</i>	Role of Altered Vision and Proprioception in Control of Posture
06/2012 – 08/2013		Abbi Lane M.S., Department of Kinesiology and Nutrition, University of Illinois at Chicago
	<i>Mentorship Role:</i>	<ul style="list-style-type: none"> • PhD preliminary exam and dissertation committee (Chair: Dr. Bo Fernhall)
	<i>Project:</i>	Acute Inflammation and Arterial Load
08/2012 – 05/2016		Austin Robinson, PhD, Department of Physical Therapy, UIC, Rehabilitation Track
	<i>Mentorship Role:</i>	<ul style="list-style-type: none"> • PhD Advisor and Committee Chair
	<i>Project:</i>	<ul style="list-style-type: none"> • Exercise Training and Microvascular Function in Obesity
06/2013 – 05/2015		Rebecca Kappus, Department of Kinesiology and Nutrition, University of Illinois at Chicago, PhD preliminary exam and

- Mentorship Role:* dissertation committee
(Chair: Dr. Bo Fernhall)
- Project:*
- Racial and Aging Effects of Acute Anti-oxidant Supplementation
- 09/2013 – 05/2016 Kristin Hoddy, Department of Kinesiology and Nutrition, University of Illinois at Chicago
- Mentorship Role:*
- Project:*
- PhD preliminary exam and dissertation committee (Chair: Dr. Krista Vardy)
 - Alternate Day Fasting and Cardiometabolic Function
- 06/2013 – 08/2014 Jan Kretzchmar, Department of Kinesiology and Nutrition, University of Illinois at Chicago
- Mentorship Role*
- Project:*
- PhD preliminary exam and dissertation committee (Chair: Michael Brown)
 - Race Dependent Effects of Black Cohosh Fractions in Human Umbilical Endothelial Cells
- 05/2014 – 05/2015 Chenyi Ling, Department of Kinesiology and Nutrition, University of Illinois at Chicago
- Mentorship Role*
- PhD preliminary exam (Chair: Michael Brown)
- 05/2011 – 09/2015 Ivana Grizelj, Department of Physiology and Immunology, Osijek Medical School, Croatia
- Mentorship Role:*
- PhD dissertation committee (external evaluator)
- Project:*
- Mechanisms of Microvascular Dysfunction in Bariatric Patients
- 08/2013-present Sang Joon Ahn, Department of Bioengineering, University of Illinois at Chicago
- Mentorship Role:*
- PhD preliminary exam and committee member (Chair: Irena Levitan)
 - Kir channels and flow induced dilation
- 08/2014 – present Ahmad Sabbahi PT, MS. Department of Physical Therapy, UIC, Rehabilitation Track
- Mentorship Role:*
- PhD Advisor and supervisor
- Project* Vascular dysfunction following maximum exercise testing in African Americans and Caucasian adults
- 08/2015 – present Richard Severin DPT, Department of Physical Therapy, UIC, PhD in Rehabilitation
- Mentorship Role:*
- PhD Advisor and supervisor
- Project:* Inspiratory Muscle Training and Exercise Capacity in Bariatric Patients
- 09/2015 – present Adriana Mazzuco Bonaca PT, Department of Physiotherapy, Federal University of Sao Carlos, Sao Paulo, Brazil
- Mentorship Role:*
- Research Supervisor at UIC; Funded Research Scholarship for 1 year US collaboration
- Project:* Project on vascular analysis and exercise training in COPD and obesity
- 03/2014 - 12/2016 Flavia Caruso PT, PhD, Department of Physiotherapy,

- 05/2017 – 2019
- Federal University of Sao Carlos, Sao Paulo, Brazil
- Research supervisor for 1 month scholarship at UIC
- Project: Research mentor on vascular ultrasound for cardiac rehabilitation research project
- Guilherme Areas, MS, PT, Department of Physiotherapy, Federal University of Sao Carlos, Sao Paulo; Professor of Human Physiology at the Federal University of Amazonas, Manaus, Brazil
- Mentorship Role: • Research Supervisor at UIC; Brazilian Funded Research Scholarship for 1 year collaboration the US
- Project: High pressure induced microvascular dysfunction in a transgenic model of HFpEF
- 03/2018 – 03/2019
- Larissa Delgado Andre, PT, Department of Physiotherapy, Federal University of Sao Carlos
- Mentorship Role: • Research Supervisor at UIC; Brazilian Funded Research Scholarship for 1 year project in the US
- Project: Microvascular dysfunction in heart failure

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A. Theses:

1. **Phillips S.A.** Chronic AT₁ receptor blockade impairs mechanisms of vascular reactivity in skeletal muscle. Ph.D. Dissertation. Medical College of Wisconsin, 2004.

B. Manuscripts:

1. Lombard J.H., F.A. Sylvester, **S.A. Phillips**, J.C. Frisbee. High-salt diet impairs vascular relaxation mechanisms in rat middle cerebral arteries. *Am J Physiol Heart Circ Physiol*. 284: H1124-33. 2002.
2. **Phillips S.A.**, E.B. Olson, B.J. Morgan, and J.H. Lombard. Chronic intermittent hypoxia impairs endothelium-dependent dilation in rat cerebral and skeletal muscle resistance arteries. *Am J Physiol Heart Circ Physiol* 286: H388-93. 2004.
3. **Phillips SA**, Drenjancevic-Peric I, Frisbee JC, Lombard JH. Chronic AT1 receptor blockade alters the mechanisms mediating responses to hypoxia in rat skeletal muscle resistance arteries. *Am J Physiol Heart Circ Physiol* 287: H545-52. 2004
4. **Phillips S.A.**, F. A. Sylvester, J.C. Frisbee. Oxidant Stress and Constrictor Reactivity impair cerebral artery dilation in obese zucker rats. *Am J Physiol Regul Integr Comp Physiol* 288: R522-R539. 2005.
5. Drenjancevic-Peric I, **S.A. Phillips**, and J.H. Lombard. Restoration of Normal Vascular Relaxation Mechanisms in Cerebral Arteries by Chromosomal Substitution in Consomic SS.13^{BN} rats. *Am J Physiol Hear Circ Physiol* 289: H188-H195. 2005.

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9. **Phillips S.A.**, E.B. Olson, B.J. Morgan, and J.H. Lombard. Chronic Intermittent Hypoxia alters vasoconstrictor reactivity and mechanics in skeletal muscle arteries. *J Appl Phys* 100. 1117-1123. 2006.
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11. **Phillips S.A.**, O.A. Hatoum, D.D. Gutterman. The Mechanism of Flow-Induced Dilation in Human Adipose Arterioles Involves Hydrogen Peroxide During CAD. *Am J Physiol Heart and Circ Physiol* 292. H93-H100. 2007.
12. **Phillips S.A.** Effects of Low Carbohydrate Diet on Vascular Health: More than just Weight Loss. *Am J Physiol Heart and Circ Physiol* 292: H2037-H2039, 2007.
13. **Phillips, SA**, J.W. Jurva, A.Q. Syed, A Syed, J.P. Kulinski, J. Pleuss, R. Hoffmann , DD Gutterman. Benefit of Low Fat Diet over Low Carbohydrate Diet on Endothelial Health in Obesity. *Hypertension* 51: 376-382. 2008.
14. **Phillips SA.** Obesity, Weight Loss, and Cardiovascular Health: Is Oxidative Capacity the Missing Link? *Am J Hypertens* 21: 1277. 2008.
15. Strande JL and **S.A. Phillips**. Thrombin increases inflammatory cytokine and angiogenic growth factor secretion in human adipose cells *in vitro*. *Journal of Inflammation* 6: 4. 2009.
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http://www.youtube.com/watch?feature=player_embedded&v=eRkZBIOtIwQ

Editorial

Pod Cast @ <http://ajpheart.podbean.com>

Content Expert on American Journal of Physiology article, “Habitual exercise decreases systolic blood pressure during low-intensity resistance exercise in healthy middle-aged and older individuals”