

## Deborah Osikoya

6118 Madoc Fork Dr Apt 1218 • Fort Worth, TX 76116 • (423) 457-8576 • oo0079@my.unthsc.edu

## Oluwatobiloba “Deborah” Osikoya

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### EDUCATION

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BIOCH. B.S in Biochemistry, Minor in Psychology; Lee University, Cleveland, TN

Graduated cum Laude in May 2015 with a cumulative GPA of 3.475 on a 4.0 scale.

PhD in Biomedical Sciences with emphasis in Integrative Physiology, University of North Texas Health Science Center, Fort Worth, TX  
Anticipated graduation date: May 2020

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### CAREER GOALS

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My long-term goal is to develop a research career focused on designing and examining the effects of therapeutic interventions related to cardiovascular complications associated with pregnancy.

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### RESEARCH EXPERIENCE

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#### **Graduate Research Assistant**

August 2015 –

*Department of Physiology and Anatomy, University of North Texas Health Science Center, Fort Worth, TX*

#### **Laboratory Research Technician**

August 2015 – August 2016

*Institute for Cardiovascular and Metabolic Diseases, University of North Texas Health Science Center, Fort Worth, TX*

- Responsible for animal care and surgeries
- Responsible for ELISA assays, DNA extraction, PCR
- Perform ex vivo vascular reactivity experiments (wire Myograph)
- Responsible for maintenance and ordering lab supplies

#### **Physical Chemistry Research**

January 2015 – May 2015

*Chemistry Department, Lee University, Cleveland, TN*

- Senior research project: Determining the Heat Capacity Ratio of Gases using Speed of Sound Method
- Determining the Heat Capacities Ratio of gases using the Speed of Sound Method
- Responsible for experimental design, result interpretation and project defense

#### **Molecular Biology Research**

August 2014 – December 2014

*Biology Department, Lee University, Cleveland, TN*

- “Inducing Apoptosis in THP1-leukemia cells using Ascorbic Acid” research project, presented to faculty at the end of semester

#### **Clinical Research Assistant**

June 2014 – August 2014

*Department of Nephrology, Emory University School of Medicine, Atlanta, GA*

- Retrospective study: Kidney Biopsy Database at Emory University affiliated hospitals; Emory University Hospital, Emory University Hospital Midtown, The Emory Clinic with Dr. Titilayo Ilori.
  - Responsibilities includes: Data entry, data validation and preliminary data management

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- Exposure to basic science practicum: histological techniques such as cryosectioning
- Class in “Introduction to Epidemiology”

### **SUPERR Summer Topics in Renal Research**

June 2014-July 2014

- Attended the weekly didactic segment of the Summer Undergraduate Program Emory Renal Research (SUPERR) program

### **NIDDK/NIH Research Fellow**

May 2014 – August 2014

American Physiological Society, Bethesda, MD

- 2014 Short-Term Research Experience for Underrepresented Persons (STEP-UP) award
- Research Project: “Pure Proliferative Lupus Nephritis versus Mixed Proliferative Lupus Nephritis: A Comparison of Demographics and Clinical Characteristics”

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## PROFESSIONAL DEVELOPMENT EXPERIENCE

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### **2018 Graduate Women in Science Fellowship**

January 2018

*Wrote and submitted grant application (not funded)*

### **Kurt Albertine Grant Writing Workshop**

December 2017

*University of North Texas Health Science Center, Fort Worth, TX*

### **2018 American Heart Association Pre-doctoral Grant Fellowship**

November 2017

*Wrote and submitted “Research Strategy” section of grant application (not funded)*

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## TEACHING/MENTORING EXPERIENCE

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### **Human Anatomy and Physiology Tutor**

January 2016 – April 2016

*Tarrant County College Hygienist candidate’s Private Tutor, Fort Worth, TX*

- Prepared lecture and tutor section materials, quizzes and exam

### **Chemistry Tutor**

September 2015 – December 2015

*Tarrant County College Hygienist Candidate’s Private Tutor, Fort Worth, TX*

- Prepared lecture and tutor section materials, quizzes and exam

### **Teaching Assistant**

August 2013 – May 2015

*Human Anatomy & Physiology II, Lee University, Cleveland, TN*

- Assisted with grading exams and preparing exam study sessions for the professor

### **Tutor**

January 2012 – May 2015

*Student Academic Support, Lee University, Cleveland, TN*

- Tutored topics ranging from contemporary math to Calculus

### **Peer Leader**

August 2013 – December 2013

*First Year Programs, Lee University, Cleveland, TN*

- Mentored incoming freshmen to increase student retention
- Prepared class lectures, taught classes and led activities for students
- Assisted with service activities, including community fair at North Elementary School and Operation Christmas Child

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### AWARDS/HONORS

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The American Physiological Society's Graduate Student Ambassador <i>Travel award to attend 2018 and 2019 Experimental Biology, San Diego, CA</i>	January 2018
Caroline tum Suden/Frances Hellebrandt Professional Opportunity Awards <i>Travel award to attend 2018 Experimental Biology, San Diego, CA</i>	January 2018
American Physiological Society Travel Fellowship Award <i>Travel award to attend 2017 Experimental Biology, Chicago, IL</i>	February 2017
Lee University Young Alumni Professional Development Grant <i>Travel award to attend the symposium, Mechanisms on Vasodilatation, Mayo Clinic, Rochester, MN</i>	November 2016
Graduate Student Association Travel Award <i>Travel award to attend the symposium, Mechanisms on Vasodilatation, Mayo Clinic, Rochester, MN</i>	November 2016
Research Achievement Award <i>Uterine Perivascular Adipose Tissue Potentiates Contractile Responses in Uterine Arteries from Pregnant rats, 11<sup>th</sup> Annual Conference on Health Disparities</i>	June 2016
Short-Term Research Experience for Underrepresented Persons <i>Undergraduate summer research program with the American Physiological Society, Funded by the National Institute of Diabetes and Digestive and Kidney Diseases</i>	August 2014
Centennial Scholar, Lee University <i>Highest Scholarship Award</i>	January 2011 – May 2015
Who's Who Among Students in American Universities and Colleges <i>Faculty Nominated Award</i>	October 2013 – July 2014

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### MEMBERSHIP

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<b>Graduate Women in Science (GWIS)</b> Graduate Student Member	January 2018 -Present
<b>American Society for Pharmacology and Experimental Therapeutics (ASPET)</b> Graduate Student Member	November 2016 - Present
<b>American Heart Association (AHA)</b> <i>Graduate Student Member</i>	June 2016 - Present
<b>American Physiological Society (APS)</b> <i>Graduate Student Member</i>	June 2014 – Present
<b>American Society of Nephrology</b> <i>Student Member</i>	July 2014 – Present
<b>Alpha Phi Delta, Member</b>	November 2013 – May 2015

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*Pre-Medicine Honor Society*

**Tri Beta, Member**

*Biology Honor Society*

**World African Students Association, Member**

*Planned club activities*

November 2012 – May 2015

January 2011 – May 2015

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## PUBLICATIONS

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### Comprehensive Physiology

January 2018

Mechanisms of sex disparities in cardiovascular function and remodeling.  
(Submitted for review).

Chaudhari Sarika, Cushen Spencer, **Osikoya Oluwatobiloba**, Jaini Paresh, Posey Rachel,  
Mathis Keisa, Goulopoulou Styliani.

### Pharmacological Research Journal

October 2016

Effects of low-dose aspirin on maternal blood pressure and vascular function in an  
experimental model of gestational hypertension ([Published Manuscript](#))

<http://www.sciencedirect.com/science/article/pii/S1043661816311082?via%3Dihub>

**OLUWATOBILOBA OSIKOYA**, Paresh Jaini, An Nguyen, Melissa Valdes, Styliani  
Goulopoulou

### PLOS ONE Journal

July 2016

Comparison of Outcomes between Individuals with Pure and Mixed Lupus Nephritis: A  
Retrospective Study ([Published Manuscript](#))

<http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0157485>

Titilayo O. Ilori, Nosayaba Enofe, Anju Oommen, Jason Cobb, Jose Navarrete, Demilade A.  
Adedinsewo, **OLUWATOBILOBA OSHIKOYA**, Helene Fevrier, Alton B. Farris, Laura  
Plantinga, Akinlolu O. Ojo

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## ABSTRACTS

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### Research Appreciation Day

February 2018

*Pregnancy Augments the Vasoactive, Metabolic, and Inflammatory Functions of Uterine  
Perivascular Adipose Tissue*

**Oluwatobiloba Osikoya**, Styliani Goulopoulou.

\*University of North Texas Health Science Center, Fort Worth, TX.

### Experimental Biology

December 2017

*Pregnancy Promotes Inflammation and Pro-contractile Effects in Uterine Perivascular  
Adipose Tissue.*

**Oluwatobiloba Osikoya**, Styliani Goulopoulou.

\*University of North Texas Health Science Center, Fort Worth, TX.

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### **Society for reproductive investigation**

December 2017

*Pregnancy Mediates the Inflammatory and Vasoactive Effects of Uterine Perivascular Adipose Tissue.*

**Oluwatobiloba Osikoya**, Styliani Goulopoulou.

\*University of North Texas Health Science Center, Fort Worth, TX.

### **Research Appreciation Day**

February 2017

*Uterine perivascular adipose tissue potentiates vasoconstriction in maternal arteries during rat pregnancy.*

**Oluwatobiloba Osikoya**, Styliani Goulopoulou.

\*University of North Texas Health Science Center, Fort Worth, TX.

### **American Heart Association Council on Hypertension Scientific sessions**

June 2016

*Contractions to Thromboxane A2 in a 30 Rat Model of Pregnancy-Induced Hypertension.*

**Oluwatobiloba Osikoya**, Paresh A. Jaini, An Nguyen, Melissa Valdes, Styliani Goulopoulou.

\*University of North Texas Health Science Center, Fort Worth, TX.

### **Texas Health Disparities, 11<sup>th</sup> Annual Conference**

May 2016

*Low-dose aspirin during pregnancy does not prevent maternal hypertension and vascular dysfunction in a rat model with preeclampsia-like symptoms.*

**Oluwatobiloba Osikoya**, Paresh Jaini, An Nguyen, Melissa Valdes, Styliani Goulopoulou.

\*University of North Texas Health Science Center, Fort Worth, TX.

### **Mechanisms of Vasodilation 12<sup>th</sup> International Symposium**

April 2016

*Uterine Perivascular Adipose Tissue Potentiates Contractile Responses in Uterine Arteries from Pregnant Rats.*

**Oluwatobiloba Osikoya**, Styliani Goulopoulou.

\*University of North Texas Health Science Center, Fort Worth, TX.

### **Research Appreciation Day**

February 2016

*Uterine Perivascular Adipose Tissue Potentiates Contractile Responses in Uterine Arteries from Pregnant Rats (**Abstract**)*

**Oluwatobiloba Osikoya**, Styliani Goulopoulou.

\*University of North Texas Health Science Center, Fort Worth, TX

### **Experimental Biology**

November 2015

*Low-dose Aspirin does not Ameliorate Maternal Hypertension and Promotes Vascular Dysfunction in Rats Exposed to Innate Immune System Activation during Gestation (**Abstract**)*  
[http://www.fasebj.org/content/30/1\\_Supplement/738.4](http://www.fasebj.org/content/30/1_Supplement/738.4)

Paresh Jaini, An Nguyen, Melissa Valdes, **Oluwatobiloba Osikoya**, Styliani Goulopoulou.

\*University of North Texas Health Science Center, Fort Worth, TX

### **American Society of Nephrology**

July 2015

*Comparison of Outcome between Individual with Pure and Mixed Lupus Nephritis: A Retrospective Study (**Abstract**)*

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Nosayaba Enofe, Anju Oommen, Jason Cobb, Jose Navarrete, Ademilola Adedinsewo,  
**Oluwatobiloba Osikoya**, Helene Fevrier, Alton Brad Farris, Laura Plantinga, Titilayo O.  
Ilori  
\*Emory University, Atlanta, GA

### APS STEP-UP Conference, NIH Campus

August 2014

*Pure Proliferative Lupus Nephritis versus Mixed Proliferative Lupus Nephritis: A Comparison of Demographic and Clinical Characteristics (Abstract)*

**OSIKOYA O.A**, Adedinsewo D.A, Enofe N, Odewole O.A, Navarrete J.E, Cobb J, Oommen A.A, Ilori T.O

\*Emory University, Atlanta, GA

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### POSTER/ORAL

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- Pregnancy Promotes Inflammation and Pro-contractile Effects in Uterine Perivascular Adipose Tissue (**Poster**) April 2018
- Pregnancy Augments the Vasoactive, Metabolic, and Inflammatory Functions of Uterine Perivascular Adipose Tissue (**Oral**) April 2018
- Pregnancy Mediates the Inflammatory and Vasoactive Effects of Uterine Perivascular Adipose Tissue (**Poster**) March 2018
- Uterine perivascular adipose tissue potentiates vasoconstriction in maternal arteries during rat pregnancy (**Poster**) April, 2017  
*Research Appreciation Day, UNT Health Science Center, Fort Worth, TX.*
- Uterine Perivascular Adipose Tissue Potentiates Contractile Responses in Uterine Arteries from Pregnant rats (**Poster**) November, 2016  
*Mechanisms of Vasodilatation, 12<sup>th</sup> International Symposium, Rochester, MN.*
- Contractions to Thromboxane A2 in a 30 Rat Model of Pregnancy-Induced Hypertension. *American Heart Association Council on Hypertension, Orlando, FL. (Oral) September 2016*
- Uterine Perivascular Adipose Tissue Potentiates Contractile Responses in Uterine Arteries from Pregnant Rats (**Poster**) June, 2016  
*22<sup>nd</sup> Annual Meeting Texas Forum for Reproductive Sciences, UNTHSC, Fort Worth, TX.*
- Uterine Perivascular Adipose Tissue Potentiates Contractile Responses in Uterine Arteries from Pregnant Rats (**Poster**) April, 2016  
*UNT Health Science Center Research Appreciation Da, UNTHSC, Fort Worth, TX.*
- Determining the Heat Capacity Ratio of Gases using Speed of Sound Method (**Oral**) April 2015  
*Physical chemistry research project defense, Lee University, Cleveland, TN.*
- Inducing apoptosis in THP-1 leukemia cells using Ascorbic Acid (**Oral**) November, 2014  
*Cell/Molecular lab research project, Lee University, Cleveland, TN.*
- Pure Proliferative Lupus Nephritis versus Mixed Proliferative Lupus Nephritis: A Comparison of Demographics and Clinical Characteristics (**Poster**) October 2014  
*7<sup>th</sup> Annual Department of Medicine Research Day, Emory University, Atlanta, GA.*
- Pure Proliferative Lupus Nephritis versus Mixed Proliferative Lupus Nephritis: A Comparison of Demographics and Clinical Characteristics (**Oral and Poster**) August, 2014  
*STEP-UP Research project, National Institute of Health Campus, Bethesda, MD.*
- Comparison of Arginine Operon with Tryptophan Operon in *E. coli* (**Poster**) April, 2014

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*Biochemical Synthesis, Biochemistry III project, Lee University, Cleveland, TN.*

- Thermodynamics of Boiling an Egg (**Poster**) April, 2014  
*Physics project presented at the Science & Math Complex, Lee University, Cleveland, TN.*
- Genetic Analysis on *Drosophila melanogaster* (**Poster**) November, 2012  
*Genetics lab project, Lee University, Cleveland, TN*

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### LEADERSHIP EXPERIENCE

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**Secretary, Graduate Student Association** May 2018 – June 2019  
*Graduate School of Biomedical Science, UNT Health Science Center, Fort Worth Texas*

**Core Class Representative** August 2016 – December 2016  
*2016/17 entering class, UNT Health Science Center, Fort Worth Texas*

- Responsible for communicating need of students to Dr. Jonny He, the associate dean for the Graduate School of Biomedical Science.
- Responsible for taking meeting minutes for Dr. He

**Supervisor** August 2011 – May 2014  
*Sodexo, Lee University, Cleveland, TN*

- Supervised full time and part time employees
- Trained employees
- Managed customer and employee relations

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### VOLUNTEER ACTIVITIES

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**Big Sister (Mentor)** July 2018 –  
*Big Brother Big Sister of Texas, Fort Worth, TX*

**Tour Guide at Experimental Biology** April  
2018 San Diego Convention Center, San Diego, CA

- Introduced students to Physiology and showed them around the very busy Experimental Biology while introducing them to basic science and translational research posters

**Judge for the APS Barbara A. Horwitz and John M. Horowitz Undergraduate Research Awards at Experimental Biology** April  
2018

San Diego Convention Center, San Diego, CA

- Judged undergraduate research posters at Experimental Biology

**APS Physiology Understanding Week** November 6, 2017 – November 10,  
2017 William James Middle School, Fort Worth, TX

- Introduced students to Physiology and Careers in physiology
- Co-introduced and taught student the scientific methods of extracting DNA from strawberries

**APS Physiology Understanding Week** November 2, 2016 – November 6, 2016  
William James Middle School, Fort Worth, TX

- Introduced students to Physiology and Careers in physiology
- In charge of educating students on vascular health with experimental activity

**APS Physiology Understanding Week** November 2, 2015 – November 6, 2015  
William James Middle School, Fort Worth, TX  
Dallas Park Elementary-Crowley ISD-Kindergarten, Fort Worth, TX

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- Introduced students to Physiology and Careers in physiology
- In charge of educating Students in the different organs in the human body and the different ways, especially through nutrition and exercise that these organs can be kept healthy

**80 hours of community service in the Bradley County area:** January 2011 – May 2015

- **Life Care centers of America, Cleveland, TN**  
*Interacted with people with health care needs*
- **Boys and Girls Club**  
*Tutored young adults and children in the Cleveland community*
- **Lee Tutoring Center**  
*Helped with academic growth of young adults in the community by tutoring Mathematics and Chemistry*
- **Good Samaritan Clinic**  
*Took blood pressure of patients*
- **Great Strides – Cystic Fibrosis Foundation**  
*Assisted with fund raising*
- **Teen Learning Center**  
*Mentored and Tutored high school students in the alternative learning school*
- **Tutor**  
*Introduction to general, organic and biochemistry to nursing students*

### Observer

July 2014

Renal division, Grady Memorial Hospital, Atlanta, GA

- Spun urine samples for urinary sediments and dipstick analysis

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### SKILLS & INTERESTS

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- Proficiency in using the Wire Myograph, Laser Capture Microdissection, Working under the microscope, cleaning animal tissues under the microscope
- Animal Handling, Breeding and Non-Survival Animal Surgery in compliance with the Institutional Animal Care and Use Committee's guidelines.
- Proficiency in Molecular Assays; ELISA Assays, Gel Electrophoresis, Western Blot, Hemocytometer Cell Counting
- Exposed to techniques such as polymerase chain reaction (PCR), Cell Culture, Pressure Myograph
- Familiar with PubMed, Web of Science, Endnote, Mendeley, Microsoft Office and R statistics.
- Fluent in English and Yoruba language
- I enjoy traveling, reading, sewing, baking, singing, dancing, and watching movies and TV show; foreign and domestic.