

Phyllicia A. Hemphill

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EDUCATION

Tennessee State University, Expected Graduation date May 2021 Nashville, TN
Master of Science in Biology;

Tennessee State University, Graduated May 2018 Nashville, TN
Bachelor of Science in Agricultural Sciences with a concentration in Pre-Veterinary medicine; 3.88/4.0 GPA

Relevant Coursework: Animal Science, Animal Breeding and Genetics, Animal Nutrition, Anatomy and Physiology of Domestic Animals, Plant Science, Cellular Biology, Organic Chemistry, Biochemistry, Physics, Molecular Genetics, Advanced Pharmacology

SKILLS AND SOFTWARE PROFICIENCIES

Microsoft Office Suite • Exceptional communication skills • Critical thinking skills • Leadership skills • Guinea fowl broiler Research • Drosophila Research • Glioblastoma Research

WORK & LEADERSHIP EXPERIENCE

Fall 2019-Present **Quick Laboratory, Tennessee State University** Nashville, TN
Graduate Research Assistant

Conducting research focused on finding a suitable pharmaceutical drug to combat the onset of glioblastomas.
Research advisor: Dr. Quincy Quick.

- Stem cell culture
- Dose-response on U251 and A172 cells
- Time-course assessment of cell proliferation
- Cell Migration Assay
- Immunofluorescence

Spring 2015-2018 **Animal Biotechnology Laboratory** Nashville, TN
Undergraduate Research Assistant

Conducted research focused on creating and analyzing DNA Gels from French guinea fowl broilers. This process helps determine the purity of DNA extract. Research advisors: Drs. Sam Nahashon and Taylor.

- Conducted bird trials in broiler farm
- Primer Designs
- Gel Electrophoresis
- PCR
- Currently working on personal research project
- Mentor visiting high school students
- Mentor students from Big Picture in the laboratory

Summer 2017

Weake Laboratory, Purdue University

West Lafayette, IN

Undergraduate Research Assistant, Research Experiences for Undergraduates (REU)

Conducted research regarding retinal degeneration on white-eyed *Drosophila* as a model system for rapid aging. Procured an efficient set of skills concerning the maintenance and expansion of *Drosophila* stock. As well as the dissection and examination of white-eyed *Drosophila*. During the end of the program I presented an oral and poster presentation for other faculty and students. Research advisor: Dr. Vikki Weake

Fall 2014- Spring 2015

Animal Biotechnology Laboratory

Nashville, TN

Undergraduate Research Assistant

Conducted research focused on the evaluation of methionine and cysteine requirements of French guinea fowl broilers. Gained a further understanding and proficiency in finding ways in which guinea fowl would be an acceptable substitution for human consumption. Research advisors: Drs. Sam Nahashon and Taylor.

RESEARCH PRESENTATIONS

Oral Presentation, TLSAMP Conference

Nashville, TN

P. Hemphill, Dr. S. Nahashon, Dr. T. Taylor, Dr. D. Young, *Evaluation of the Relationship of Apolipoprotein A1 and Fatness via Comparative Analysis Across Poultry Species*. Tennessee State University- February 24, 2017

Poster Presentation, University Research Symposium

Nashville, TN

P. Hemphill, Dr. S. Nahashon, Dr. T. Taylor, Dr. D. Young, *Evaluation of the Relationship of Apolipoprotein A1 and Fatness via Comparative Analysis Across Poultry Species*. Tennessee State University- April 2017

Oral and Poster Presentation, Purdue University

West Lafayette, IN

P. Hemphill, Dr. Weake, *White-eyed Drosophila are a Model of Rapid Aging*. Purdue University-July 2017

Oral Presentation, TLSAMP Conference

Nashville, TN

P. Hemphill, Dr. Weake, *White-eyed Drosophila are a Model of Rapid Aging*. Purdue University-February 2018

ACTIVITIES & HONORS

- Dean's List; 2014- Current
- Member, Minorities in Agriculture and Natural Resource Related Sciences (MANRRS)
- Captain of Women's Division 1 Tennis Team
- OVC All Conference Nomination
- Undergraduate Mentor, TLSAMP 2017-present
- Recipient of Outstanding GPA Academic Award Among Athletics 2016
- OVC Commissioner Honor Roll
- Most Improved Player Award 2014-2016
- Member, College of Agriculture Dean's Scholar Program
- Member, Tennessee State University Honors College
- National Honor Society (Invited)
- 2017 Recipient, College of Agriculture, Undergraduate Student of the Year Award
- 2017 Scholar, Mentoring@Purdue, Summer Leadership Program, West Lafayette, IN
- Member, Delta Sigma Theta Sorority, Inc. Spring 2018-Present

COMMUNITY SERVICE

- Member of nonprofit organization, Give One- Aid inner city youth with mental health awareness programs.
- Process of a Princess-Provide guidance for young minority girls (6-12) to develop communication and confidence skills.
- Red Stain Member- Provides a safe space for victims of sexual assault to seek counsel.
- Hemphill's Trash Service- Assist elderly neighbors take their trash back and forth to the curb.
- Oak Hill Day Camp Counselor
- Pleasant Green Baptist Church (Room in the Inn)- Help prepare and serve food for the homeless.
- Temple Baptist Church (Samaritan Ministries)- Help serve the homeless with food and clothes.
- Temple Baptist Church (Project S.E.E.)- Donate toys to the less fortunate children.
- Tennessee State University Community Day- Help clean up trash along the highway.
- Hadley Park Jr. Tennis Inc.- Volunteer to help coach tennis and mentor young kids
- Tennessee State University Women's Tennis Team- Visit elementary schools to read books to the children
- Tennessee State University Move in Day- Help incoming freshman move their stuff into dormitory
- Research Mentor to Big Picture High School students in Animal Biotechnology Laboratory