

**KAMILLE A. PIACQUADIO**

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**EDUCATION**

**Master of Science**

**August 2020**

University of Tennessee, Knoxville

Herbert College of Agriculture

Department of Animal Science

Major: Animal Science

Minor(s): Nutrition

Concentration: Nutritional Physiology

**Bachelor of Science**

**May 2017**

Coastal Carolina University

Gupta College of Science

Department of Biology

Major: Biology

Minor(s): Chemistry and Business Administration

Concentration: Cellular, Molecular, and Genetics (CMG)

## RESEARCH EXPERIENCE

University of Tennessee

Under the mentorship of Dr. Brynn H. Voy, Ph.D.

Professor - Department of Animal Science

Nutritional Physiology

Graduate Teaching Assistant

Spring 2019 –

Summer 2020

Graduate Research Assistant

Fall 2018

Topics:

Maternal diet impacts on offspring physiology

Developmental programming mechanisms

Epigenetic relations to adiposity

Broiler welfare and feed efficiency

Mammalian and avian relations in obesity and adipogenesis

*In vitro* pre-adipocyte response to polyunsaturated fatty acids

Detection of adipogenic potential from isolated primary cells from tissue

Methylation gDNA analysis for potential regulatory mechanisms

Morphological changes in *p. major* muscle and adipose related to diet

Techniques:

Bioinformatics applications

Statistical applications

Primary cell culture and cell staining

Sample and data collection

gDNA and mRNA isolation

qPCR and PCR

Spectrophotometry

Muscle and adipose tissue histology and analyses

Poultry population management

## ***Curriculum Vitae***

Coastal Carolina University

Under the mentorship of Dr. Scott Parker, Ph.D.

Associate Professor - Department of Biology

Reptilian Reproductive Physiology

Undergraduate Research Assistant

Spring 2016

Topics:

Leopard and crested gecko reproductive physiology

Embryonic development

External factor application for manipulation of embryonic development

Detection of respiratory response in hypoxic environments

Physiological implications resulting from embryonic environment

Techniques:

Monitoring and performance of oxygen changes in an isolated environment

Embryo fixation and preservation within egg

Assessment of predetermined age of embryo and scoring of physiological impact on body condition and heart enlargement after hypoxic treatment

Data entry and management

Data analysis using excel

Reptile population management

## **AREAS OF RESEARCH INTEREST**

Public Health

Chronic Disease

Obesity

Developmental Programming

Nutrigenetics and Nutrigenomics

Human and Animal Nutrition

## SCIENTIFIC PRESENTATIONS

1. **Piacquadio K.**, Johnson S., Kim M., Das S., McLean K., Voy B.H. Utilization of perinatal programming in enhancing body composition in broiler chicken. UTIA Graduate Research Poster Symposium and Competition, University of Tennessee, Knoxville, TN. December 2019.
2. Mihelic R., **Piacquadio K.**, Winter H., Powers J., Das S., Lamour K., Campagna S., Voy B.H. Developmental regulation of the fatty acid elongase and desaturase pathways in broiler chicks. Poultry Science Association, Montréal, Québec, Canada. July 2019.
3. **Piacquadio K.**, Utilization of perinatal programming in regulation of adipogenic potential in broiler chicken: A proposal. Department of Animal Science Student Seminar, University of Tennessee, Knoxville, TN. April 2019.
4. **Piacquadio K.**, Biochemical mechanisms of canine distemper virus (CDV). Biochemistry of Disease. Biochemistry Department Student Seminar, Coastal Carolina University, Conway SC. November 2016. Best presentation award.
5. Barthet M.M., Ditch J., Ingersoll K., King C., Natale K., Opitz E., Patel N., **Piacquadio K.**, Rowe J., Wimberley M., Yelle C. The importance of plant physiology in modern society. Celebration of Inquiry, Coastal Carolina University, Conway, SC. April 2016.

## TEACHING EXPERIENCE

University of Tennessee

Graduate Teaching Assistant

Fall 2018 –

Summer 2020

Animal Science 220: Animal Anatomy and Physiology

In Class Responsibilities: Collaborated on curriculum and exam development, scribed for lecture and laboratory, met with students upon request, hosted individual and group tutoring sessions, prepared and taught lectures and laboratories, and graded written work, including exams.

Distance-Learning/Online Class Responsibilities: Prepared and pre-recorded laboratory lectures and activities, prepared and pre-recorded screen shared PowerPoints for lecture, enhanced student learning through online discussion boards and forums, and formulated alternative strategies for test taking online for students with and without webcam capability.

## **HONORS AND AWARDS**

Dr. Ollie E. and Wilma B. Goff Graduate Student Award	Spring 2019
Dr. Ollie E. and Wilma B. Goff Fellowship	Fall 2018 – Summer 2020
Coastal Scholar Award	Fall 2013 – Spring 2017
Dean's List	Fall 2016; Spring 2014, 2016, 2017
President's List	Fall 2013

## **PROFESSIONAL ASSOCIATIONS**

American Society for Nutrition  
Poultry Science Association  
American Physiological Society  
Gamma Sigma Delta Honor Society  
Beta Beta Beta Biology Honor Society

## **PROFESSIONAL DEVELOPMENT**

2020 Herbert College of Agriculture Three Minute Thesis Competition	
Competitor	January 2020
Seminar: Best practices in interviewing	January 2020
Seminar: Tailoring job specific application materials	October 2019
Graduate Student Professional Bootcamp	Fall 2019

## **EXTRACURRICULAR ACTIVITY**

Graduate Student Senate	
Executive Board Member	Fall 2019 – Spring 2020
Animal Science Department Delegate	Fall 2019 – Spring 2020
Graduate Professional Development Awards Committee	
Committee Chair	Fall 2019 – Spring 2020
AdipoINSight: UTIA Educational Interactive Webpage	
Contributor and Co-founder	Spring 2019 – Summer 2020
UTIA Voy Lab Social Media Manager	Spring 2019 – Summer 2020
Animal Science Graduate Student Association	
Fundraising Executive Chair	Fall 2018-Fall 2019
Executive Board Member/Relations Liaison	Fall 2018-Fall 2019
Carolina Forest Veterinary Hospital	
Event Coordinator	Jan. 2018-July 2018
Canine Companion 5K and Fitness Festival	June 2018

## REFERENCES

### **Brynn H. Voy, PhD**

University of Tennessee, Knoxville  
2506 River Drive 238 Brehm Animal Science Building  
Knoxville, TN 37996  
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### **Michelle M. Barthet, PhD**

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### **Liesel G. Schneider, PhD**

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### **Daniel J. Mathew, PhD**

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