

EDUCATION

The Ohio State University (OSU) | Columbus, Ohio

Bachelor of Science in Agriculture, Animal Biosciences Specialization *May 2021*

- Summa Cum Laude, Cumulative GPA: 3.91

Master of Science in Agriculture, Reproductive Physiology *May 2023*

- NAAB Doak Graduate Fellow, University Fellow

RESEARCH EXPERIENCE

Department of Animal Science | The Ohio State University

Undergraduate Research Assistant *March 2018 - May 2021*

Reproductive Physiology Research Fellow *May 2021 - Present*

- Perform transrectal ultrasonography for pregnancy diagnosis, estimation of gestational age, and ovarian mapping in beef cattle and small ruminants
- Administer hormones by injection and internal drug release for investigation of estrus synchronization protocols in beef cattle and small ruminants
- Prepare samples for hormone extraction including ELISA and radioimmunoassay

Animal Behavior and Health Research

- Implement on-animal sensors for early detection of disease and monitoring individual performance
- Conduct breeding soundness exams on nearly one hundred beef bulls for Ohio State managed farms
- Observe and record target behaviors for verification with sensor technology
- Collaborate with investigators from Central Queensland University (CQU) to establish an on-animal sensor program at OSU

Data management and Statistical Analysis

- Process data in R and SAS programming language
- Organize and present spatial data with QGIS software

Kevin P. Clinton Wildlife Center | Kirtland, Ohio

Independent Investigator *August 2015 - February 2018*

- Monitor and identify trends of food intake for resident raptor species
- Evaluate biosecurity measures set forth in June 2015 by the USDA and their efficacy in minimizing the proliferation of highly pathogenic H5N1 in wild and domestic birds
- Review waterfowl surveillance and response measures practiced by wildlife clinics around the US

TEACHING EXPERIENCE

ANIMSCI 3160 | Reproductive Physiology | The Ohio State University

Teaching Assistant *January 2020 - Present*

- Summarize lecture material in class meetings, answer student questions and facilitate online forums
- Provide review lectures and study material prior to exams

ANIMSCI 2700 | Diverse Fields and Opportunities in Animal Sciences | The Ohio State University

Teaching Assistant *January 2020 - May 2021*

- Lead weekly recitations to review course material, practice skills, and provide help with assignments
- Critique resumes and cover letters to help students present themselves professionally

Caleb Rykaczewski

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ANIMSCI 3200 | **Animal Biosciences Lab** | The Ohio State University

Teaching Assistant

August 2020 - May 2021

- Provide instruction and assistance with laboratory skills in all aspects of animal sciences including physiology, nutrition, microbiology, disease, and reproduction
- Hold weekly office hours, answer questions outside of class, and grade assignments

PUBLICATIONS AND PRESENTATIONS

Publications

Co-authored Manuscripts

- Duran BJ, Lemos Motta JC, Rojas-Canadas E, Hayden C, **Rykaczewski C**, Nall A, Mussard M, Garcia-Guerra A. (2021). "48 Timing of luteolysis and conceptus expulsion after induced pregnancy loss at three different timepoints after maternal recognition of pregnancy in cattle". *Reproduction, Fertility and Development* (1031-3613), 33 (2), p. 131.

Manuscripts in Preparation

- **Rykaczewski C**, Trotter M, Garcia Guerra A. Evaluation of on-animal sensors for detection of breeding impediments and beef bull performance during the breeding season

Presentations

Conference Poster Presentations

- **Rykaczewski C**. On-animal sensors for bull health and animal evaluation *National Association of Animal Breeders Doak Fellowship Webinar* | Online | November 2021
- **Rykaczewski C**. The effect of seasonal variation on food intake in raptors. *Ohio Fish and Wildlife Management Association Conference* | Columbus, Ohio | January 2018

University Poster Presentations

- **Rykaczewski C**, Trotter M, Garcia Guerra A. Evaluation of on-animal sensors for detection of breeding impediments and beef bull performance during the breeding season: A pilot study. *Denman Undergraduate Research Forum* | OSU | April 2021

VETERINARY EXPERIENCE

Department of Animal Science | The Ohio State University

Reproduction Lab Assistant and Graduate Research Fellow

March 2018 - Present

- Perform breeding soundness exams to verify reproductive and physical health status
- Assist with veterinary procedures including treating bloat, foot rot, and performing necropsy
- Monitor pregnant cattle for signs of stress and exhaustion during calving

Animal Medical and Emergency Hospital | Worthington, Ohio

Veterinary Assistant

May 2019 - October 2019

- Assist with surgery, physical examination, radiology compliance, and diagnostic testing
- Manage kennel husbandry, provide prescribed medications, and maintain an organized pharmacy

Kevin P. Clinton Wildlife Center | Kirtland, Ohio

Wildlife Care Specialist

December 2014 - January 2018

- Provide general husbandry for wildlife including meals, health status evaluation, and enrichment
- Complete habitat maintenance such as construction, cleaning, and winter preparation

INTERNATIONAL EXPERIENCE

Queensland, Australia | The Ohio State University

Human Impacts on the Natural Environment

May 2018 - June 2018

- Discussed industrial and agricultural impacts on rainforest and reef ecosystems
- Contrasted how differing management practices have affected Lake Erie freshwater fisheries

Scotland, United Kingdom | The Ohio State University

Scotland's Ruminants

March 2019

- Assessed unique challenges and best practices for ruminant production systems around the UK

LEADERSHIP EXPERIENCE

Animal Science Community Alliance | The Ohio State University

April 2018 - May 2021

Vice President

August 2019 - August 2020

- Organize and promote multiple student and faculty events including the largest annual event for the Department of Animal Sciences and students of CFAES
- Creatively communicate through departmental social media to highlight student achievement, valuable learning experiences, and the work of our alumni and faculty
- Recruit high school students by communication with letters, emails, and recruitment events

Global Design Mission | The Ohio State University

September 2017 - May 2020

Education Chair

August 2018 - May 2020

- Collaborate with engineering team to produce a viable solution to given prompts pertaining to the consequences of climate change and global food security
- Create and distribute educational material regarding project design and biomimicry principles

AWARDS AND SCHOLARSHIP

First Place Team | **North American Intercollegiate Dairy Challenge**

April 2021

Doak Graduate Fellowship | **National Association of Animal Breeders** / ~\$100,000

February 2021

University Fellowship | **The Ohio State University Graduate School** / ~\$50,000

February 2021

Distinguished Senior | **College of Food Agriculture and Environmental Science**

April 2020

Undergraduate Scholar | **American Society of Animal Sciences**

July 2019, 2020

Fellowship | **Second-year Transformational Experience Program** | \$2000

May 2019

Creative Endeavor Scholarship | **OSU Education Abroad** | \$2000

November 2018

CERTIFICATIONS AND PROFESSIONAL MEMBERSHIP

Member | **Friends of Euclid Creek** | Cleveland, Ohio

July 2017 - Present

Open Water Scuba Diver | **PADI** | Columbus, Ohio

April 2018 - Present

Member | **American Society of Animal Sciences** | Champaign, Illinois

April 2019 - Present

Pork Quality Assurance Plus Certification | **PQA** | Des Moines, Iowa

September 2019 - Present

Cow-Calf and Transport Certifications | **BQA** | Denver, Colorado

March 2020 - Present

Artificial Insemination | **Ohio State University Extension** | Caldwell, Ohio

October 2021 - Present

REFERENCES

Alvaro Garcia Guerra, DVM, MSc, PhD, DACT

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