

# Katelyn Bailey

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Kansas State University  
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## Education

### Master of Science

Kansas State University  
Department of Grain Science and Industry  
Advisor: Dr. Greg Aldrich  
Focus: pet food processing, nutrition, digestibility, palatability, sensory analysis, formulation, clinical nutrition  
Expected graduation: May 2024

### Bachelor of Science

Iowa State University  
Major: Animal Science  
Minor: Feed Technology  
Focus: Companion animal nutrition, feed technology  
GPA: 3.97  
Graduation Date: May 2022

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## Research Experience

### January 2022-May 2022

Iowa State University-Independent Research Project

Advisor: Dr. Cheryl Morris

Lab analyses (dry matter, organic matter, protein, fat, and gross energy) on a new carnivore project  
Mentor for new graduate students in lab analyses  
Data analysis

### August 2018-May 2022

Iowa State University -Undergraduate Research Assistant

Advisors: Dr. Mariana Seroo and Dr. Elizabeth Bobeck

Management of laboratory equipment  
Data analysis for percent fat, protein, and energy in dog food and poultry diets  
Endoscopy surgery assistance  
Necropsy analysis for cause of death  
Extraction of tissue samples for furthering swine and poultry nutrition  
Measurement of histomorphology of cells  
Daily health evaluation of research animals  
Spleen processing  
Preparation of cells for Seahorse metabolism assays for poultry immunology  
ELISA assays  
RNA extraction from chicken breast  
Management of new undergraduate students

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## Professional Experience

### June 2021-July 2021

#### Simmons Pet Food -R&D Intern

- Literature review on the use of transglutaminase in the food industry
- Literature review on analyzing texture and its impact on product performance
- Manage bench tests for alternative binding agents and alternative gravies
- Report on analysis of bench tests
- Protocol development for texture analyzer
- Macro development for texture analyzer
- Completion of research trial- effect of time after processing on product texture
- Presentation at the quarterly innovation meeting

### May 2020-August 2020

#### Animal Rescue League of Iowa - Veterinarian/ Medical Staff Intern

- Medical evaluations
- Vaccinations
- Collaboration with staff to perform medical exams
- Necropsy analysis to determine cause of death

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## Volunteer Experience

### May 2019-August 2019

#### Blank Park Zoo- Commissary Volunteer

- Diet production for a variety of animals
- Examination of nutritional requirements of individual animal's diet and enrichment

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## Teaching Experience

### Fall 2021 Semester

#### Iowa State University -Animal Feeds and Feeding Teaching Assistant (ANS 320)

- Instruction on course material
- Assistance in weekly lab
- Tutoring

### Spring 2020 Semester

#### Iowa State University- Domestic Animal Anatomy and Physiology Lab Teaching Assistant (ANS 214L)

- Instruction of course material
- Assistance in weekly lab
- One on one teaching

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## Awards and Recognition

### May 2022

*Graduated Summa Cum Laude (Highest Honors)*

### April 2022

*Wendell L. and Ina K. Brubaker Graduate Student Scholarship*

**January 2021**

*Gold Eagle Scholarship- Excellence in Feed Technology*

**July 2019**

*Tyrone D. Artz, M.D. Scholarship in Agriculture and Life Science*

**February 2019**

*Top 2% of Class of 2022*

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## **Training Workshops**

**May 2022**

*CITI Program- Kansas State University*

Working with IACUC

Working with Dogs in Research Setting

Working with Cats in Research Setting

Responsible Conduct of Research

Animal Biosafety