

# Isabelle Monroe

Email: isabellemonroe3@gmail.com

## **EDUCATION:**

### **University of New Mexico**

Bachelor of Science in **Biology**

Minors: Chemistry, Anthropology

Designation: Honors College

GPA: 3.99

*Albuquerque, New Mexico*

Received May 2021

### Relevant Coursework:

Biology: Molecular, Genetics, Ecology/Evolution, Plant/Animal Form and Function, General Vertebrate Zoology, Animal Physiology Ecology, Conservation Biology

Chemistry: General Chemistry I and II, Organic Chemistry I and II, Biochemistry

Anthropology: Evolution and Human Emergence, Human Behavioral Ecology, Primate Evolution

## **RESEARCH INTERESTS:**

- Primate development relating to cognitive, hormonal, and behavioral development as well as the development of sex differences in these areas.
- The behavioral and physiological changes an organism and populations experience over time in response to habitat disturbances and changes in climate.

## **RESEARCH EXPERIENCE:**

### **Cognitive Evolution Group: 2022-Present**

*University of Michigan, Ann Arbor, Michigan*

Research Lab Coordinator

- Assists in primate cognitive experiments and/or behavioral observations
- Conducts cognitive experiments with a variety of lemur species at the Duke Lemur Center in Durham, NC
- Administrative assistance work, such as managing research ethics protocols, and supervising/training new lab members and undergraduates

### **Foraging Preferences of Small Mammals, NSF Funded Project: 2021-2022**

*University of New Mexico, Albuquerque, New Mexico*

Research Assistant to Prof. Scott Collins

- Collaboratively design field experiments and implemented field equipment for observing nocturnal granivorous rodents at the Sevilleta National Wildlife Refuge, New Mexico
- Independently monitor twelve feeding stations and motion sensor cameras to collect data on a weekly basis and ensure proper materials are maintained and collected
- Run basic analyses of data in R, and train temporary field assistants

### **Kibale Chimpanzee Project: 2018-Present**

*University of New Mexico, Albuquerque, NM, and Kibale National Park, Uganda*

Research Assistant to Dr. Kris Sabbi, Prof. Melissa Emery Thompson, and Prof. Zarin Machanda

- Collect data for an independent research project analyzing sex differences in play behavior among wild infant and juvenile chimpanzees
- Use behavioral coding software and a detailed ethogram to extract and analyze behavior from video recordings of wild chimpanzees
- Conducted field experiments on wild chimpanzees in Kibale National Park, Uganda, for a three-month period

### **Comparative Hominoid and Primate Physiology Lab: 2020-2021**

*University of New Mexico, Albuquerque, NM*

Research Assistant for Prof. Melissa Emery Thompson

- Wet lab experience with hormone extraction, and both enzyme- and radio immunoassays
- Behavioral data extraction and analyses from long-term field observations of wild chimpanzees at Kibale National Park, including social interactions and group dynamics

### **Plant Ecology Lab: 2020-2021**

*University of New Mexico, Albuquerque, NM*

Research Assistant for Prof. Jennifer Rudgers

- Participated in data collection and analysis of the ongoing soil and microbial disturbance projects
- Searched and identified symbiotic fungal species in root samples for evidence of different effects on plant growth
- Sorted seeds, plants, and plant litter species to gather result yields for previous experiments

### **FIELD EXPERIENCE:**

#### **Duke Lemur Center: Feb 2023-Mar 2023, May 2023-July 2023**

*Durham, North Carolina*

- Conducted cognitive experiments relating to individual's understanding of causal inference with six species of lemurs, including a nocturnal species
- Performed cognitive experiments in outdoor semi-free ranging natural habitat enclosures

#### **Kibale Chimpanzee Project: April 2022-July 2022**

*Kibale National Park, Uganda*

- Perform cognitive field experiments with the Kanyawara community of wild chimpanzees using video equipment
- Participate in daily data collection and logging, video data annotation for collaborative use, and documentation of protocols

### **Maderas Rainforest Conservancy: Dec 2021-Jan 2022**

*La Suerte Biological Field Station, La Suerte, Costa Rica*

- Conducted an independent research project on differences in activity budget between age classes in mantled howler monkeys
- Hiked through and navigated the neotropical forest surrounding the field station

### **Sevilleta Long Term Ecological Research Site: June 2021-Aug 2022**

*Sevilleta National Wildlife Refuge, Socorro, New Mexico*

- Set up of field equipment and data collection for project titled: "Foraging Preferences of Small Mammals at the Sevilleta National Wildlife Refuge"
- Assisted with small mammal baiting, trapping, and mammal data collection

### **GRANTS, SCHOLARSHIPS, OTHER AWARDS:**

**2017- 2021:** Presidential Scholarship Award from the University of New Mexico

**2021:** William S. Pollitzer Student Travel Award from the American Association of Biological Anthropologists 90<sup>th</sup> Annual Meeting

**2021:** Second place finisher at the University of New Mexico Undergraduate Research Opportunity Conference

**2021:** University of New Mexico Student Conference Award Program Travel Grant

**2018- 2020:** College of Arts and Sciences Dean's List at the University of New Mexico

### **CONFERENCE PRESENTATIONS:**

K.H. Sabbi, M.F. Cole, S.E. Kurilla, **I.G. Monroe**, E. Otali, M.N. Muller, M.E. Thompson, R.W. Wrangham, A. Menante, M. Kobusingye, Y. Zhang and Z.P. Machanda., (Aug 2023) Seasonal fluctuations in adult social play differ for mothers versus others among wild East African chimpanzees (*Pan troglodytes schweinfurthii*). **Abstract Accepted for International Primatological Society Meeting**, Kuching, Malaysia.

**Monroe I**, Sabbi K., (Aug. 2022) Sex differences in social play mirror differences in adult social strategies among wild East African chimpanzees. Presented at the **American Society of Primatologist Meeting**, Denver, CO, US.

**Monroe I**, Orozco D., Collins S., (Aug. 2022) Foraging preferences of small mammals at the Sevilleta National Wildlife Refuge. Presented at the **Ecological Society of America Meeting**, Montreal, CA.

K.H. Sabbi, M.F. Cole, S.E. Kurilla, **I.G. Monroe**, E. Otali, M.N. Muller, M.E. Thompson, R.W. Wrangham, and Z.P. Machanda., (March 2022) Playing with purpose: sex differences in social play among wild adult chimpanzees (*Pan troglodytes schweinfurthii*). **Abstract Accepted** for the **91st Annual Meeting of the American Association of Biological Anthropologists**, Denver, CO, US.

**Monroe I**, Emery Thompson M. Sabbi K., (Apr. 2021) Sex differences in play style among wild East African chimpanzees (*Pan troglodytes schweinfurthii*). Presented at the **90th Annual Meeting of the American Association of Biological Anthropologists**, Baltimore, MD, US.

**Monroe I**, Emery Thompson M. Sabbi K., (Apr. 2021) Sex differences in play style among wild East African chimpanzees (*Pan troglodytes schweinfurthii*). Presented at **UNM's Undergraduate Research Opportunity Conference**, Albuquerque, NM, US.

**Monroe I**, Emery Thompson M. Sabbi K., (Apr. 2021) Sex differences in play style among wild East African chimpanzees (*Pan troglodytes schweinfurthii*). Presented at **UNM's Biology Research Days** presentation, Albuquerque, NM, US.

#### **OTHER RELEVANT EXPERIENCE:**

2019: Volunteer Curator, Division of Mammals, Museum of Southwestern Biology at the University of New Mexico

- Clean specimens for installation into collection
- Prepare identification tags for specimens
- Organize and sort specimens in collection

2018-2020: Cashier, Hobby Lobby, Albuquerque, New Mexico

- Check out customers
- Clean, organize, and restock the front of the store
- Answer customer questions and maintain good customer service

2018: Volunteer Touchpool Instructor, Albuquerque BioPark Aquarium • Handle and transfer invertebrates to different pools

- Educate visitors on conservation of each species
- Demonstrate proper animal touching techniques to visitors

#### **PROFESSIONAL ORGANIZATIONS:**

Animal Behavior Society (2021 to present)

Kibale Chimpanzee Project (2020 to present)

American Association of Biological Anthropology (2020 to present)

National Society of Collegiate Scholars (2017 to 2021)

University of New Mexico's Honors College (2017 to 2021)