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## Kevin R. Rugira

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### Biochemist | Research Assistant

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Recent biochemistry graduate with a dedication to scientific exploration and a proven track record in laboratory research, seeking opportunities in biomedical research and bioinformatics.

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### EDUCATION

#### University of Nebraska-Lincoln

Graduation: May 2023

Bachelor of Science in Integrated Sciences

**Concentration:** Biochemistry

**Minors:** Conservation Agriculture, Entrepreneurship

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### PROFESSIONAL EXPERIENCE

#### Research Assistant at Nebraska EPSCoR

2020 – 2023

- Conduct gel electrophoresis, antibody staining, cellular and quantitative assays to detect Sarcoplasmic Reticulum proteins.
- Proficient in ImageJ, R, Cytoscape GraphPad Prism, MetaboAnalyst software for data analysis and molecular visualization.
- Collect and prepare tissue and serum samples for analysis while performing necropsies on ground squirrels and rats.
- Utilized multiple databases, including GenBank, UniProt, and KEGG, for comprehensive data retrieval and analysis to support research initiatives.

#### Sports Programs Official at the Lee & Helene Sapp Recreation Facility

Spring 2020

- Organized and Officiated sporting events, ensuring fair play.
- Collaborated with other sporting officials and facility managers to coordinate activities.

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### CAMPUS LEADERSHIP AND VOLUNTEERING EXPERIENCE

#### University of Nebraska State Museum – Morrill Hall

Fall 2020

- Accurate transcriptions of science and culture lecture recordings
- Prepared glossary of terms for online learning activities

#### President, UNL Agriculture Leadership Shields

2022

- Organized cultural galas, led bi-weekly meetings, and oversaw campus outreach and volunteer work.

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### AWARDS AND SCHOLARSHIPS

#### Third Place in Chemistry at the Annual REB National Science Competition

2018

#### Dean's List, University of Nebraska

Fall 2019, Spring 2019

#### CASNR Undergraduate Scholarship for next generation of Rwanda Leaders

2019 – 2022

#### UCARE Undergraduate Research grant at the University of Nebraska

2021 – 2022

Thesis: *Adapting mammalian hibernation physiology to rat cardiac ischemia and reperfusion injury*

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### PUBLICATIONS:

- Heinis, F., Alvarez, S., **Rugira, K.**, McMurchie, A., Schuster, O., & Andrews, M. (2023). Seasonal changes in the metabolomic profile of white adipose tissue in hibernating thirteen-lined

ground squirrels. *Functional Omics: Genomics, Transcriptomics, Proteomics and Metabolomics*, 38(S1), 5734478. doi: [10.1152/physiol.2023.38.S1.5734478](https://doi.org/10.1152/physiol.2023.38.S1.5734478)

## **LANGUAGES**

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Kinyarwanda  
*Native*

English  
*Native*

French  
*Full Professional Proficiency*

Swahili  
*Limited Working Proficiency*

## **INTERESTS**

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Health Research

Environmental Sustainability

Volleyball

Writing