

# Tanaka B Mudzimbasekwa

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## Education

### Clarkson University

**Grade: 3.8**

*Master's degree in Applied Data Science*

*Present - May 2026*

*Master's degree in Bioscience and Biotechnology*

*Present - December 2026*

### University of Zimbabwe

**Upper Second Class**

*BSc in Biochemistry (Honours)*

*Completed*

## Skills

**Technical Skills:** Python, SQL, R, Numpy, Pandas, Latex, Tableau, PowerBI, Statistical Analysis, Predictive Modeling, Data Analytics, Cellpose cell image tracking

**Soft Skills:** Soft skills: Team work, Communication skills, Leadership skills, Networking, Problem solving skills, Work ethics.

## Projects

- Currently working on the development and implementation of 3D cellular models for solid tumor cell growth under different drug targets.
- Trained cellpose-based model for cell segmentation and cell image analysis on FIJI ImageJ from for cancer research.
- Worked on the soil microbial data to analyze the impact of microplastics and soil characteristics on the change in soil microbial composition.
- Developed a model from a heart attack dataset and used the Local Interpretable Model Agnostic Explanations (LIME) for probabilistic predictions and a local explanation of the developed model.

## Work Experience

### Clarkson University, Potsdam NY, USA

*February 2024 – Present*

#### Graduate Teaching Assistant and Research fellow

- Conduct laboratory sessions and teach theoretical classes in the Human Anatomy and Physiology course in Biology department.
- Research student in the Cell Material Interactions research group, focusing on cancer biology.
- Study of the response of cancer cells to biomaterials and chemotherapy drugs.

## Additional Certificates

### Google Data Analytics Professional Certificate

*January 2025*

- Covered the core concepts of data analysis, data cleaning, data visualization, and data storytelling and gained hands-on experience with tools like SQL, R, Tableau, and spreadsheets.

### Bioinformatics and Biocoding Training Certificate

- The course covered Bioinformatics Fundamentals, Bio-Coding and Programming Concepts Principles, Bio-Data and Statistics Using Different Coding Languages such as R and Python, and the Linux concept