

# Reggie Joseph

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Passionate and results-driven Biochemistry graduate with a solid foundation in biomedical engineering and biochemistry principles. Possessing a keen interest in leveraging cutting- edge technologies to solve complex biological problems, brings a dynamic blend of theoretical knowledge and hands-on experience to the table. Adept at conducting comprehensive research, designing experiments, and analyzing data to drive innovation and advancements in the field of bioengineering. Demonstrated ability to collaborate with multidisciplinary teams to develop innovative solutions for biomedical challenges. Eager to contribute expertise and drive for excellence to a forward-thinking organization committed to pushing the boundaries of bioengineering and biochemistry.

## EDUCATION:

John Hopkins University - College of Engineering and Computer Science  
University

Masters-Bioengineering

Maryland

Graduation August 2026

Coding Temple Software engineering  
Certificate

Online

Harriet Wilkes Honors College of Florida Atlantic  
University

Bachelor of Science- Biochemistry

Jupiter, FL

Graduate August 2022

GPA-3.8

Broward College

Associate of Arts- Biology

Coconut Creek, FL

Graduate May 2019

GPA-3.9

Member of Robert "Bob" Elmore Honors College

Nova High School

Davie, FL

Graduate May 2019

GPA-4.5

## RESEARCH EXPERIENCE:

Jupiter Life Science Center, Gregory

Data Analyst.

January 2020-August 2021

## Macleod's Lab

I worked on analyzing mitochondrial and neuronal area in sensory, motor, and interneurons found in *C. elegans*. Through this project we hope to understand how neurons of different function and neurotransmitter type regulate their consumption of energy and uncover the mechanisms involved in the regulation of mitochondrial size and density.

### Laboratory Skills:

- FIJI-Image J: using ROI function to measure mitochondrial and neuronal areas
- Microsoft Excel: compile and organize data
- Data analysis and programming Dragonfly software
- Larval dissections and imaging

### Other Skills:

- Produce writing samples for paper
- Assist in using blender design software for neural representation

### Publication:

Riboul DV, Crill S, Oliva CD, Restifo MG, Joseph R, Joseph K, Nguyen KC, Hall DH, Fily Y, Macleod GT. Ultrastructural analysis reveals mitochondrial placement independent of synapse placement in fine caliber *C. elegans* neurons. bioRxiv [Preprint]. 2024 Mar 2:2023.05.30.542959. doi: 10.1101/2023.05.30.542959.  
PMID: 37398149; PMCID: PMC10312582

## VOLUNTEER EXPERIENCE:

University Hospital

June 2018 - Fall 2019

Volunteer

Tamarac, FL

- Manage front desk operations including greeting patients, answering phone calls, and filing papers.
- Assist nurses with various duties ranging from setting up patient rooms to bringing things to the lab.
- Exercise bilingual speaking ability to act as a translator between Creole speaking patients and hospital staff

Joseph Surgeries

June 2018 – July 2022

Summer Intern

Miami, FL

- Manage front desk operations including greeting clients, answering phone calls, filling, and filing documents
- Effectively strengthened multitasking skills by balancing multiple daunting tasks
- Aid in maintaining smooth, efficient office operations

Red Cross

February 2018 - PRESENT.

Volunteer

Davie, FL

- Aided with disaster preparedness for local south Florida residents.

- Educate community members on the important of fire safety, and assisted in the installation of smoke alarms
- Strengthened cooperation skills through team-based service operations