

EDUCATION

Florida International University | Miami, FL

July 2023

Degree: Bachelor of Sciences

Majors: Biochemistry, Natural & Applied Sciences

Minor: Biology

Certifications: Immunology Techniques, Microbiology Laboratory Technician, Laboratory Hazard Awareness, Hazard Communication, First Aid for Mental Health

Additional Diplomas: Experimental Biotechnology, Drug Development, Human Anatomy & Physiology

EXPERIENCE

Lab Technician | Hyku Biosciences | Lexington, MA

November 2023 - Present

- Learn, optimize, and execute *in vitro* and cell-based assays using a variety of chemical proteomics techniques, including mass spectrometry to characterize interactions between small molecule inhibitors with their protein targets.
- Analyze assay data and maintain a comprehensive lab notebook.
- Communicate results to project teams through written reports and oral presentations.

Academic Tutor | Tutor Me Education | Remote

August 2022 - November 2023

- Performed individual and group tutoring sessions for students in STEM subjects
- Explained and simplified complex concepts, theories, or problems to enhance students' understanding and facilitate their comprehension of academic material.
- Offered guidance on time management and organizational skills to help students balance their academic workload effectively

Undergraduate Researcher in Chemistry | Florida International University | Miami, FL

September 2022 - July 2023

- Investigated the impact of kinase mutations on cell signaling pathways and cancer progression through molecular modeling and bioinformatics analysis.
- Conducted quantum mechanics calculations to analyze properties of small molecules using computational chemistry software
- Utilized molecular dynamics simulations and ligand-protein docking to elucidate binding interactions between Covid-19 and drug-like molecules

Research Intern | Nicklaus Children's Hospital | Miami, FL

March 2022 - August 2022

- Designed and conducted scientific research in a specific area of interest relevant to the hospital's focus.
- Collected, analyzed, and interpreted experimental data using statistical and computational tools.
- Collaborated with multidisciplinary teams, including physicians, clinicians, and other researchers

Biological Sciences Peer Leader | Florida International University | Miami, FL

May 2021 - March 2022

- Facilitated group study sessions to assist fellow students in understanding complex biological concepts.
- Led discussions on advanced biological topics, fostering critical thinking and scientific curiosity.
- Promoted effective study techniques, time management, and exam preparation strategies tailored to biological sciences.

Lab Technologist | Moskovskiy Nauchno-Issledovatel'skiy Onkologicheskii Institut Imeni P. A. Gertsena | Moscow, Russia

June 2019 - August 2020

- Carried out complex laboratory experiments and assays, utilizing advanced biochemical techniques.
- Run data analysis using specialized software and statistical tools to interpret experimental results
- Contributed to the troubleshooting and optimization of experimental procedures

CONFERENCES

Computational Chemistry-Based Design of a Peptide Probe for Electrochemical Distinction of Multiple Kinases with Applications in Ovarian Cancer Diagnosis

(Boston, USA, 9/16/2023)

(Madrid, Spain, 12/09/2023)

SKILLS

Lab technical: Bacterial identification, Blotting, Calibration, Cell culture, Data analysis, Gel electrophoresis, Mass Spectrometry, PCR

Computational chemistry tools: AutoDock, Avogadro, Babel, Gaussian, PyMOL, PyRX, VMD

Languages: English, Russian, Spanish