

ANASTASIA IGNASHKINA

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EDUCATION

Florida International University
BS Biochemistry, Natural & Applied Sciences

Miami, FL
July 2019 - July 2023

EXPERIENCE

Tutor Me Education
Academic Tutor

Remote
Aug 2022 - Present

- Perform individual and group tutoring sessions for students in STEM subjects.
- Explain and simplify complex concepts, theories, or problems to enhance students' understanding and facilitate their comprehension of academic material.

Florida International University
Undergraduate Researcher

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.

Nicklaus Children's Hospital
Research Scientist Intern

Miami, FL
March 2022 - August 2022

- Designed and conducted scientific research in a specific area of interest relevant to the hospital's focus (e.g., medical imaging, drug development, disease mechanisms).
- Collected, analyzed, and interpreted experimental data using statistical and computational tools.
- Collaborated with multidisciplinary teams, including physicians, clinicians, and other researchers.

Florida International University
Biological Sciences Peer Leader

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.

Herzen University
Lab technologist

Moscow, Russia
June 2019 - August 2020

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

SKILLS

Lab:	ELISA, Gel electrophoresis, PCR, Chromatography, Enzyme assays, Microscopy
Software:	PyMOL, PyRX, AutoDock, LigPlot, VMD, Avogadro, Gaussian, Babel
Certifications:	Immunology Techniques, Microbiology Laboratory Technician, Hazard Communication
Training:	Experimental Biotechnology, Drug Development, Human Anatomy & Physiology

PROJECT

HIV in Pregnant Women

Eliminating HIV host virus in pregnant women while targeting its reservoir cells for a complete cure. Simultaneously, the risks of birth defects and miscarriages during treatment are being minimized, ensuring the well-being of both mother and fetus. In pursuit of these goals, computational chemistry tools are harnessed to investigate potential medications and their impacts throughout all phases of HIV in expectant mothers.

CONFERENCE

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)