

Sofia Asadchykh

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EDUCATION

B.S. Nuclear Engineering | North Carolina State University | Raleigh, NC Anticipated May 2026

Cumulative GPA: 3.12/4.0

Relevant Coursework: Programming in Matlab, Introduction to Health Physics, Statistics and Probability, Statics, Introduction to Nuclear Engineering

RESEARCH EXPERIENCE

Research Assistant | NC State Biotechnology Summer Undergraduate Research, Srougi Lab | Raleigh, NC May – July 2022

- Conducted in-depth testing of three drug compounds (Lapatinib, Teniposide, and Volasertib) for their ability to induce toxicity in Triple Negative Breast Cancer cells through an NQO1-dependent mechanism
- Effectively performed cell culture techniques and *in vitro* cell survival experiments three times in triplicate for each tested drug
- Graphically analyzed and presented data findings with Excel
- Communicated scientific information to the public in a poster presentation at the Summer Undergraduate Research Symposium

Academic Project | USC260: Research as a Profession | NC State University | Raleigh, NC Jan-May 2022

- Designed a research proposal regarding the development of the nuclear medicine industry and education in Central and Eastern Europe
 - Completed a week-long class trip to Czech Republic to inform research through visits to three Czech technical universities and observation of their curricula and student projects
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CERTIFICATIONS

EU Energy Policy Summer Program | Masaryk University | Brno, Czech Republic July 2023

- Acquired knowledge in various aspects of development and design of energy policy within the context of European countries and politics

Developing Cultural Competence Certification | NC State University | Raleigh, NC

SKILLS

- Fluency in Russian, Ukrainian, proficiency in French
- Technical: experimental design, scientific writing, MATLAB, Excel