

Amina Lesbekova

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EDUCATION

Cornell University, Ithaca, New York, United States

August 2024 – May 2028

GPA: 3.4/4.0

Candidate for Bachelor of Science in Mechanical Engineering, Minor in Aerospace Engineering

Relevant coursework: Operations Research, Python, Astronomy, Statics, Thermodynamics, Physics I & II, Calculus I, II, III, Differential Equations

Nazarbayev Intellectual School in Astana, Astana, Kazakhstan

September 2020-May 2024

GPA: 3.92/4.0

Relevant coursework: Physics High Level, Chemistry High Level, Mathematics Analysis and Approaches

HONORS & AWARDS

HOBY Research Competition Winner • Climate Science Olympiad semi-finalist • Global Innovation Challenge 7-time Nominee

RELATED EXPERIENCE

Accessibility Research Analyst

May 2022-July 2023

United Nations Development Programme (UNDP) & 2GIS, Astana, Kazakhstan

- Conducted site visits, identifying and evaluating 600-700 buildings and their facilities citywide regarding their suitability for people with disabilities
- Developed actionable recommendations and contributed to an interactive web platform to promote accessibility awareness
- Engaged with local communities, incorporating feedback into research outcomes
- Assisted in organizing workshops and presentations to raise awareness about accessibility issues and solutions

Researcher

July 2022-October 2023

“Zholaman” Aerodrome, Astana, Kazakhstan

- Conducted research and created a model on a safety system for aircraft landing on water during emergencies, inspired by the principles of automobile airbags.
- Performed calculations, simulations and experiments
- Authored a project proposal utilizing Nylon-Graphene composite materials to enhance safety features for aviation
- Attended and reported research findings on both online and in-person scientific conferences

Student Research/Lab Assistant

December 2022-July 2024

Cornell University, Ithaca, New York, United States

- Assist staff in laboratory or fieldwork
- Dispense supplies to laboratories, clean glassware, maintain inventory, perform assays, set up and conduct experiments

OTHER EXPERIENCE

Activities Director, Branch President

May 2023-May 2024

A Space for Space, Oxford Academy, Cypress, CA

- Hosted, edited and planned an informative podcast on astrophysics, astronomy and physics
- Organized, executed activities and events for (200 members), 6 branches across Turkiye, California, Kazakhstan, New York
- Supervised 45 students in the local branch in Astana, Kazakhstan

Founding member, Mentor

September 2022-May 2024

Science, Technology, Engineering, and Math (STEM) Academy, Nazarbayev Intellectual Schools, Astana, Kazakhstan

- Supervised and mentored 50 groups of students and their research projects and papers
- Proposed, organized and executed 2 research festivals a year, for local and nation-wide research projects
- Mentored students to achieve international recognition in journals and conferences across Kazakhstan, USA, Korea, China.

SKILLS

- Soft skills: teamwork, public speaking, time management, independent learning, adaptability, rapid learning.
- Technical skills: FreeCAD, Python, SketchUp, laser cutting, AMPL, modelling, materials selection, optimization, data analysis, spectrophotography and chromatography, particle physics research, Microsoft Office