

# ELIZA KISHAN

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Montréal, QC, Canada

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## EDUCATION

### Faculty of Science, McGill University

Montréal, Canada

*BSc. Computer Science & Biology*

2024 - 2027 (*expected*)

- Advisors: Paul Oloff, Nancy Nelson & Mioara Morisca
- Specific focus on genomics & bioengineering applications.

### IB Section, King's Interhigh

London, United Kingdom

*International Baccalaureate*

2022 - 2024

- HL: Physics, Chemistry, Mathematics Analysis and Approaches
- SL: Business Management, English Language & Literature, French ab initio

### Center for Talented Youth, Johns Hopkins University

Baltimore, United States

*Individual courses in AP Biology and AP Computer Science A*

2022 - 2023

- Course taken covering necessary knowledge of the AP Computer Science A curriculum, with the final AP exam not taken.
- Course taken covering necessary knowledge of the AP Biology curriculum, with the final AP exam not taken.

### St. Theresa's School

Mangalore, India

*Indian Certificate of Secondary Education*

2018 - 2022

- GPA: 4.0 (97.4%), 4/150
- Subjects: Mathematics, Computer Science, Physics, Chemistry, Biology, History and Civics, Geography, English (1st Language), Kannada (2nd Language)

## EXPERIENCE

**Przybyl Lab, RI-MUHC** | Montréal, Canada

Apr 2025 - Present

*Student Bioinformatician*

- Conducted an independent project on analysis of accuracy and predictive capacity of methylation-to-copy number variation software.
- Assisted in data analysis across laboratory projects.
- Independently presented summer research at an internal research day in the form of a poster.
- Continuing the current project stipended under a Government of Canada grant on leiomyosarcoma/leiomyoma.

**McGill Biology Student Union** | Montréal, Canada

May 2025 - Present

*Vice President Academic*

- Monitor and advocate for student interests in accordance with University policy.
- Run events related to augmentation of the academic interest of students, such as research or specialized courses.
- Represent student interests on the Biology Department Academic Committee.
- Represent, more widely, student interests of the Faculty of Science on the Faculty of Science Academic Committee.

**Wolfram Mathematica** | Urbana-Champaign, U.S.

Nov 2022 - Dec 2023

*Student Ambassador*

- Developing independent projects in Wolfram Mathematica.
- Running school-based information sessions on Wolfram products.

**Nexus Aurora** | Remote

Nov 2020 - Oct 2022

*Volunteer Technical Contributor*

- Worked on the access management section of the project, primarily developing security applications in Python.
- Worked in the SEMC section, working on developing logistic software in Python.
- Worked eventually as a community manager, sitting on the main governing council.
- As an early contributor, also helped in establishing key aspects of the ecosystem.

VOLUNTEERING	<b>Peer Support Center of the SSMU</b>   Montréal, Canada	May 2025 - Present
	<i>Equity &amp; Accessibility Coordinator</i>	
	<ul style="list-style-type: none"> <li>• Advocate for increased equity &amp; accessibility in the PSC and the services it offers.</li> <li>• Monitor and implement advances in equity as to better serve the student committee.</li> <li>• Sit on the SSMU EDI Roundtable.</li> <li>• Execute policy on de-escalation and resolve internal conflicts within the service.</li> </ul>	
	<b>McMUN</b>   Montréal, Canada	Apr 2025 - Jan 2026
	<i>Vice-Chair - ADB</i>	
	<ul style="list-style-type: none"> <li>• Vice-chairing the Asian Development Bank in a Model UN environment for a highly prominent MUN conference in Canada and North America, ranked second on the circuit.</li> <li>• Writing a research guide for delegates to the ADB as part of a team of four individuals.</li> <li>• Involved in decision making related to the conduct of delegates, feedback, as well as award assignments.</li> </ul>	
	<b>SSUNS</b>   Montréal, Canada	Mar 2025 - Nov 2025
	<i>Vice-Chair - SIDS</i>	
	<ul style="list-style-type: none"> <li>• Vice-chairing the Small Islands Developing States conference in a Model UN environment for a highly prominent MUN high-school conference in Canada and North America.</li> <li>• Writing a research guide for delegates to the SSUNS-SIDS as part of a team of four individuals.</li> <li>• Involved in decision making related to the conduct of delegates, feedback, as well as award assignments.</li> <li>• Recognized as the best pre-conference dais at SSUNS.</li> </ul>	
	<b>Eating Disorder Center - SSMU</b>   Montréal, Canada	January 2025 - May 2025
	<i>Support Volunteer</i>	
	<ul style="list-style-type: none"> <li>• Undergoing 40+ hours of training in active listening and mental health support.</li> <li>• Providing 1-on-1 listening services for those with disordered eating tendencies.</li> <li>• Providing group support sessions for those with disordered eating tendencies.</li> </ul>	
	<b>McMUN</b>   Montréal, Canada	Nov 2024 - February 2025
	<i>Co-Chair - CSTD</i>	
	<ul style="list-style-type: none"> <li>• Co-chairing the CSTD in a Model UN environment for a highly prominent MUN conference in Canada and North America, ranked second on the circuit.</li> <li>• Writing a research guide for delegates to the CSTD as part of a team of four individuals.</li> <li>• Involved in decision making related to the conduct of delegates, feedback, as well as award assignments.</li> <li>• Won the best in-conference Dais award as a part of our efforts.</li> </ul>	
RESEARCH PAPERS	<ol style="list-style-type: none"> <li><b>Benchmarking detection of DNA copy number variation using high-density methylation microarrays</b>  Eliza Kishan &amp; Joanna Przybyl, RI-MUHC  Poster: RI-MUHC Summer Student Research Day, 08.2025  Paper: In Writing.</li> </ol>	

PROJECTS	Investigating Bio-mimetic Origami Radiation Shield Design Geometries for Mitigating Transient Soft Errors Induced by Cosmic Rays in Solid-State Storage Devices	
	<i>King's Interhigh &amp; CERN</i>	2022.12 - 2023.04
	The Ethics of Competition in Education and Competitive Exams	
	<i>King's Interhigh</i>	2022.12 - 2023.02
PRESENTATIONS & TALKS	Investigating Bio-mimetic Origami Radiation Shield Design Geometries for Mitigating Transient Soft Errors Induced by Cosmic Rays in Solid-State Storage Devices	
	<i>PhysicsBeyond, YouTube</i>	04.09.2023
AWARDS AND HONORS	• <b>CERN Beamline For Schools Nomination,</b>	
	Conseil Européen pour la Recherche Nucléaire	2023.06
	• <b>British Intermediate Olympiad Silver Medal,</b>	
	UK Biology Competitions	2023.01
	• <b>CCIR Future Scholar w/ Scholarship,</b>	
	Cambridge Center for International Research,	2022.10
SKILLS	<b>Languages:</b> English, French, Kannada.	
	<b>Programming:</b> Python, R, Java, C#, Mathematica.	
	<b>Certifications:</b> Standard First Aid w/ CPR-C (Croix Rouge Canadienne-Québec)	