Same Degree, Same Fee:

Calling for Equitable Tuition For All Science Students

A proposal to reduce tuition for Computer Science, Bioinformatics, and Data Science students to be *equal* to the tuition of other science students at the University of Toronto.

Same Degree, Same Fee Campaign Committee

A joint committee of the Computer Science Student Union, Bioinformatics and Computational Biology Student Union, UTSC Math and Computer Science Student' Union, University of Toronto Mississauga Students' Union, Arts and Science Student Union, and University of Toronto Students' Union

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Contents

1   Executive Summary

Computer Science (CS), Bioinformatics (BCB), and Data Science Students (DS) all graduate from the University of Toronto with an Honours Bachelor in Science Degree. However, domestic students pay 87% or $5320 more in the CS, BCB, or DS program as compared to students in *any* other science program in the Faculty of Arts and Science, UTM, or UTSC. International students in these programs also pay thousands more than their peers in other science programs. This differential tuition policy is the result of the Government's de-regulation of these programs in 1998 and subsequent re-regulation in 2004, allowing for a six year stretch in which tuition increased exponentially in Computer Science programs. Since 2004, tuition in these programs continued to rise from their already high amount, and the University has not made a correction for the years of increases.

The Computer Science Student Union, Bioinformatics and Computational Biology Student Union, UTM Math and Computer Science Student's Union, University of Toronto Students' Union, University of Toronto Missisauga Student's Union, and Arts and Science Student Union have organized a joint campaign known as the *Same Degree, Same Fee* campaign, calling for more equitable tuition for students in these programs. **We propose that students in CS, BCB, and DS, be charged the same fees as their peers in other science programs.**

We conducted a survey of over 330 students, held six consultation events with approximately 100 students, and organized an online petition signed by 608 students. The results of the survey and consultation, paired with our own research, indicated that the current higher tuition policy has the effect of (1) making access to the CS/BCB/DS inequitable and less available for lower income or marginalized students, (2) creating a feeling of unfairness amongst CS/BCB/DS students, and (3) negatively contributing to the mental health of many CS, BCB, and DS students.

Meetings with administrators revealed that the cost of the proposed reduction in tuition would be minute in comparison to the University's budget or the size of the University's operating reserve, and that reductions to tuition should not require reductions to funding for the Department of Computer Science or student services.

The student unions organizing this campaign have asked Governing Council *not* to recommend the tuition schedules for approval until such time as they have been revised to reduce the tuition for students in Computer Science, Bioinformatics, and Data Science to be equal to the standard Arts and Science tuition rates.

2 Background

2.1 Current Tuition Policy

Computer Science (CS), Bioinformatics (BCB), and Data Science Students (DS) all graduate from the University of Toronto Faculty of Arts and Science with an Honours Bachelor in Science Degree. However, as per the proposed tuition schedules, while most domestic science students are charged $6,100$ in annual tuition, Computer Science, Bioinformatics, and Data Science Students will be charged $11,420$ [**planning˙and˙budget˙office˙tuition˙nodate**]. This means that students in CS, BCB, and DS pay **87% higher tuition for the same degree**. Over the course of a four year degree, this difference amounts to more than $15,960$.

International students in CS, BCB, and DS are charged a variety of different fees based on when they started their degree – however, the average international student in CS, BCB, or DS pays $59,777$ in annual tuition, compared to just $57,077$ for all other international students studying science in the Faculty of Arts and Science [**planning˙and˙budget˙office˙tuition˙nodate**]. So inter-

national students in CS, DS, and BCB are charged, on average, an additional $2,700 more than their peers.

2.2   Origins & History

By their own account, the University of Toronto Administration prepares these tuition schedules annually in consultation with each division, prior to them being approved by Governing Council.

These schedules should remain compliant with the Tuition Framework released by the Ontario Government every few years. The Framework dictates how much Universities in Ontario can increase tuition each year, as a percentage year over year.

In short, the University of Toronto's differential tuition policy is the long-lasting result of the Provincial Government's decision to deregulate certain "high-demand" programs between 1998-2004 [1]. This meant that, while universities were only allowed to increase tuition by some percentage each year (set by the Ministry, varying), universities were allowed to hike fees in "high-demand" programs like CS, BCB, and DS by as much as they wanted [1]. This policy was justified at the time as a way of funding rapid increases in the size of Computer Science programs across the province, as part of the then-government's Access To Opportunities Program, which aimed to double the size of Computer Science programs by 2004-05 [1]. Between 1998 and 2004, tuition in the Computer Science program at the University of Toronto skyrocketed.

In 2004, the Provincial Government *re-regulated* tuition for "high-demand" programs, but they did not reverse the last 6 years of extraordinary tuition increases [1], [8]. So tuition in CS/BCB/DS continued to rise from an already elevated level. If the higher tuition was needed to make investments in 1998, by 2004 the investments had been made – but the tuition continued to rise from an already high level, so that each year tuition in CS, BCB, and DS became more expensive relative to all other science programs.

In 2022, while CS, BCB, and DS have not been "deregulated" programs for 15+ years, the fees remain disproportionately high. Some Universities, such as the University of Western Ontario, do not charge higher fees for Computer Science students compared to other Science Students – the University of Toronto has chosen to charge these students more.

3   The Problem

The higher tuition for students in CS, BCB, and DS have created a host of problems. We've conducted a detailed survey of hundreds of students at the University of Toronto, and held three online consultation sessions with students, to understand the effects of this higher tuition policy on them. The feedback and problems identified can be split into three categories: (1) Inequitable Access, (2) Fair Treatment, and (3) Student Wellness & Mental Health.

Computer Science Tuition as a % of General Science Tuition
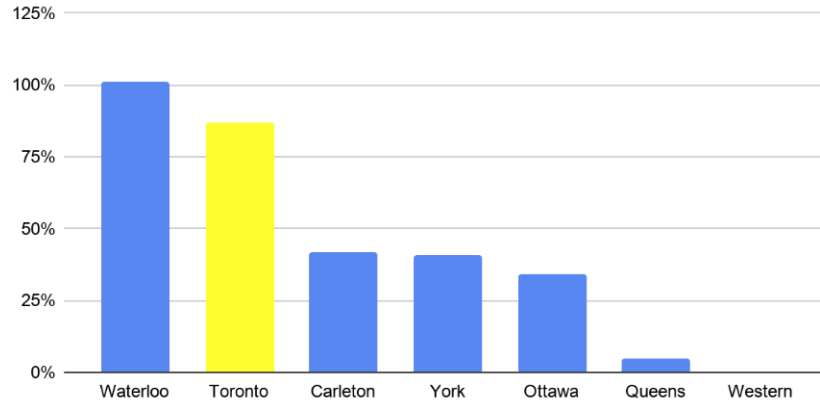Across Universities

Figure 1: At the University of Toronto, domestic students in Computer Science pay 87% more in tuition than other science students. This is significantly more than all other Canadian universities, with the exception of the University of Waterloo.

3.1 Inequitable Access

The current higher fees in CS/BCB/DS programs acts as a systemic barrier to entry to these fields for marginalized or less socio-economically advantaged students. The result can be seen in both the program and the tech industry generally, where marginalized groups are very much underrepresented. The unfortunate reality is that financial aid programs are not sufficient (see section 5.2), and many marginalized, lower-income and even middle-income students are forced to self-select out of CS/BCB/DS programs due to the expense.

This conclusion is supported by the data. For example, Tal and Mendes [7, p. 3] of CIBC Economics write that this sort of differential tuition policy in STEM fields "only exacerbates already ingrained income inequalities across the country." Marc Frenette [3, p. 92] of Statistics Canada writes that "enrolment patterns by socioeconomic background changed substantially in Ontario" as a result of deregulation and that [3, p. 101] "'middle-class' students. . . saw their probability of enrolment decline quite substantially" possibly because these students "could not afford the increased tuition fees, yet did not qualify for the increased assistance dedicated to low-income students."

Our student unions conducted a survey of over 330 students, and a series of six consultation events involving approximately 100 students, to understand the impacts of higher tuition on students (See Appendix A) [2]. The findings showed that the University's policy of higher tuition for CS, BCB, and DS students makes access to these programs less equitable. Of students in Computer Science, 41% of domestic students and 58% of international students indicated

that the higher tuition in CS, DS, and BCB affected their decisions to study these programs by a high or very high degree. Of students not in CS, BCB, or DS, 31 % of students indicated that the higher fees in CS, DS, and BCB affected their decision not to enter these programs by a high or very high degree [2]. Racially marginalized students appeared to be more likely to self-select out of the CS/BCB/DS programs as a result of the higher fees – 50% of Asian students and 44% Black/African-Canadian students indicated that the higher fees affected their decision to a high or very high degree.

Of students in CS, DS, or BCB, many students indicated that fees have been a factor that has motivated them to consider switching to a different program: 36% of domestic students and 61% of international students indicated that program fees have influenced their decision-making to continue or change out of their program to a high or very high degree. Black/African-Canadian students disproportionately considered switching out of CS/BCB/DS programs due to the higher fees, with 44% of Black/African-Canadian students indicating that these fees affected their decision-making about changing out of their program to a high or very high degree.

[2]. Students shared their experiences with us, many of which demonstrate the exclusionary and inequitable effect of the University's policy of higher fees for students in CS, BCB, and DS:

- Many students in their first year expressed worry and uncertainty about their ability to pay for the tuition in CS, BCB, and DS, and how this has detracted them from the field. A number of first year students said that they are seriously considering not entering the Computer Science or Bioinformatics program, because of uncertainty of their family's ability to pay for the higher fees.

- Similar sentiment was described by students in their second year considering transferring into Computer Science, but who chose to study other programs so as to avoid paying extra tuition 'retroactively' for all the years they have been completing their undergraduate degree.[1] Another student described being accepted into Computer Science after a few years in another program, and having to take a gap year to work to be able to pay off the retroactive tuition fees the University was charging them.

- Numerous students decided to study a Computer Science *minor*, so as to avoid the higher fees of the major and specialist program: *"I chose not to major in Computer Science (even though I took all the required courses and I really enjoy the program) and opt for a minor instead because of the fees. I feel very limited by the high tuition fees because I really like studying Computer Science and feel very uncertain about whether this would affect my future employability."*

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[1]For context, the University's policy is that students are charged higher fees for every academic session after they completed their fourth credit at the University. Students entering CS, BCB, or DS after having completed 4 credits will be retroactively charged for all sessions after their fourth credit. For some students, this can mean paying an additional $15, 000 in tuition one year, in addition to the regular tuition amount.

Arguably, the University's policy to charge students in these fields higher tuition is particularly unethical because of the rationale: targeting these fields because they are highly employable. Effectively, this is a policy that denies employment opportunity to marginalized students, thereby reducing social mobility and furthering a vicious cycle of inequality.

3.2 Fair Treatment

Students in CS/BCB/DS often express how unfair it feels that they are forced to pay so much more for the same degree as their peers in other programs.

The inequity of this policy is best illustrated by way of example. For example, consider 2 students: Student A is Computer Science & Math Double Major and student B is a Math Major with a Computer Science Minor. Student A takes 6 CSC-coded Computer Science credits and 2 MAT-coded Math credits to complete their Computer Science degree requirements. Student B takes 4 CSC-coded Computer Science credits and 7 MAT-coded Math credits to complete their degree. So, the only significant difference between Student A and Student B is that Student A takes an additional 2 credits of Computer Science courses. However, Student A's degree is at least $15, 960 more expensive, when tuition is calculated over a 4-year degree. There is no fair explanation for this.

Additionally, it's worth noting that charging 2 customers more for the same product is considered "Pricing Discrimination," a practice that violates *The Competition Act* in Canada. Arguably Student A and Student B receive the same product from the University, but are charged a different fee – this could be considered price discrimination, which further highlights why this policy is unfair.

3.3 Student Wellness & Mental Health

bFor students in CS/BCB/DS programs, the effect of the higher tuition policy is detrimental.

The immediate effect of the higher fees in CS, BCB, and DS is an increased pressure to find high-paying employment, from part-time employment during the semester to competitive internships in the summer. This can lead to worse Academic performance for students who are strained searching for and performing part-time work, but it also leads to a harmful culture in the department. It fosters a competitive atmosphere where students are competing with each other for marks and high-paying internship opportunities, as well as a greater feeling of isolation. It puts pressure on students to focus on their studies, and to reduce participation in co-curricular or social life – either from perceived pressure to succeed, or because of lack of time, since many students are forced to work part-time.

Recognizing that programs such as CS, BCB, and DS are embroiled in an ongoing mental health crisis that has resulted in numerous tragic student deaths over the last 5 years, it is important to acknowledge the effects of this inequitable, high tuition policy as a contributing factor to the mental health crisis.

Addressing systemic mental health issues such as those caused by this tuition policy should be a core part of the University's mental health strategy.

Furthermore, with a majority of students graduating with student debt, the financial and emotional pressure of debt will affect students in CS, BCB, and DS programs for years after they graduate.

Our survey of over 330 students, and our three consultation events with approximately 55 students, had an overwhelming response related to the pressure and mental health effects of the higher fee programs in CS, BCB, and DS [2]. 58% of domestic students and 87% of international students in CS, BCB, or DS programs indicated that their tuition fees negatively affected their mental health to a high or very high degree. This compared to just 36% of domestic students and 83% of international students in other science programs at UofT who indicated the same [2]. These mental effects appeared to have a disproportionate impact on racially marginalized students – 89% of CS/BCB/DS students identifying as Black/African-Canadian indicated that tuition fees have negatively impacted their mental health to a high or very high degree, as did 71% of Hispanic students, 72% of Asian students, and just 44% of White students. Not enough Indigenous students responded to the survey to assess the impact of this policy on Indigenous students. Many students also described the added pressure of paying the higher tuition for CS, BCB, and DS programs, and how this has forced them to become part-time students, work part-time, try to shorten the duration of their degree, or compete for high paying internships. 83% of students in CS/DS/BCB indicated that they feel pressured to a high or very high degree to compete for marks or jobs, as compared to just 62% amongst students in other science programs. Again, this pressure was felt more by racialized students – 89% of Black/African-Canadian students in CS/BCB/DS reported a high or very high degree of pressure as a result of their higher tuition, as did 83% of Asian students, 85% of Hispanic students, and 63% of White students.

Countless students shared their experiences with mental health and pressure as a result of the higher fees, highlighting the urgency for action on the issue of fees for students in CS, BCB, and DS.

- Numerous students expressed that they struggled with depression or anxiety related to the financial burden of tuition in Computer Science, Bioinformatics, and Data Science. One student wrote *"Financials contributed to my moderate to severe depression in 2nd and 3rd year."* Another student wrote: *"The cost of tuition has also been a contributing factor to my struggles with anxiety, as the pressure of having debt has made me anxious about spending money."* A third student wrote *"It is mentally devastating having to constantly worry about paying the fee off."*

- Students also recounted the added pressures related to the higher tuition they pay, including the pressure to compete with peers and to take on additional part-time or internship work. One student writes, regarding the higher tuition in CS/BCB/DS, that *"It has bred unhealthily high stress over assignments and tests, and a more competitive and elitist atmosphere."* Another writes *"I've pretty much had to eliminate my social*

7

life. Social life = less time to study = higher chance to fail = need to pay to take course again. The fees are just too high to take that kind of risk. It's heavily affected the amount of time I can spend with my family. I've had to make decisions to ignore my family at times I wish I hadn't."

- Students also describe how their part-time work has negatively affected their academics: *"I have to work a part time job, as well as full time to pay for my tuition. My summer's recently have been filled with working 40-80 a week to pay my tuition, I am paying for everything myself as a student. There is a lot of stress that comes from not having time to relax and to focus on money. I am also on student loans and that is always on the back of my mind. I just wish I had more time, I know there have been plenty of times where my job had conflicted with my lecture times, and time related to working on group projects and assignments.".*

Many accounts of the pressure and mental health impacts of the higher tuition policy for students in CS, BCB, and DS can be found in Appendix A. The bottom line is that a holistic approach to resolving the mental health crisis at UofT, which has seen numerous student suicides from Computer Science students over the last few years, will address the inequitable tuition policy that affects the culture of the CS department and the mental health of many CS/BCB/DS students.

4 The Solution

4.1 Our Proposal

The campaign is calling on the University to remove the distinction between CS/BCB/DS students and other Science students in the Tuition Schedule, so that these students will pay the *same fee, for the same degree.*

Such a change would correct for the years of increases in tuition for CS, BCB, and DS students and would reduce barriers to entry for these STEM programs, while at the same time alleviating the mental health pressures affecting students in these programs.

4.2 Student Support

As of March 13, 2021, our petition has received 559 signatures online. The campaign has been endorsed by the Computer Science Student Union, Bioinformatics and Computational Biology Student Union, Arts and Science Student Union, and University of Toronto Students' Union, and the Victoria University Students' Administrative Council. Appendix B includes a list of signatures to the petition.

5 Administrative Response

In December of 2020, representatives of the Computer Science Student Union, Bioinformatics and Computational Biology Student Union, Arts and Science Student Union, and the University of Toronto Students' Union met with Mr. Trevor Rogers from the Planning and Budget Office, Mr. Horatio Bot from the Faculty of Arts and Science, Ms. Archana Sridhar from the Office of the Vice President and Provost, and Mr. Josh Haas from the Office of the Vice-Provost, Students. Administrators indicated support for the principle of this campaign, but did not commit to steps to put this plan into action. Since the meeting, they have declined our requests for additional meetings to discuss next steps towards a policy change, but the UofT Media Relations Office, as well as the Provost and other members of the administration, have raised a number of concerns in statements to *The Varsity* as well as at past meetings of Governing Council and its Boards and Committees in 2021. We are grateful for the opportunity to meet with administrators and are optimistic that we can continue working with them towards a solution on this important issue. For the benefit of Governors and Board Members, however, we will respond to some of the concerns raised by the administration about our proposal to reduce CS, BCB, and DS tuition to be equal to the tuition of all other science programs in the Faculty of Arts and Science.

5.1 Costs

Administrator have stated that reducing tuition for students in CS, BCB, and DS will be costly, and will result in the need to reduce funding to student-facing areas of the University, such as departmental budgets or student services. The Assistant Vice-President, Planning and Budget indicated that the lost revenue from reducing tuition in CS, BCB, and DS across all 3 campuses to be equal to the standard Arts and Science tuition would amount to $13.8 million annually (in 2021 dollars).

This amount is neither prohibitive to the University, nor would it justify reducing funding for the Computer Science Department or Student Services. As a fraction of the proposed $3.2 billion budget, $13.8 million represents less than 0.41% of total revenues. The University's revenue was projected to grow by 4.4% in 2021, so this amount in lost revenue could certainly be absorbed by the University. Considering the importance of equitable tuition to students, and the degree to which it would benefit students, the University could even reduce their $1.27B operating reserve fund or their $4.6B investment in capital projects to absorb the cost of a tuition reduction for students in CS, BCB, and DS.

There is also no evident connection between the tuition paid by students in CS, BCB, and DS and the funding for their programs. Administrators previously indicated that costing is not performed at a program level, however, the University of Toronto Students' Union obtained over 20 years worth of Faculty of Arts and Science budgets through a Freedom of Information Request. We

cross referenced these reports with enrollment data from the University's 2018 Common University Data Online (CUDO) report to obtain the average per student departmental cost for science departments in the Faculty of Arts and Science, as compared to the per student departmental cost for the Computer Science department. 2018 enrollment data was the most up-to-date enrollment data made available to us.

According to the 2017-2018 University of Toronto Expense Budget [6] obtained through the Freedom of Information request:

- The Net Operating Support for all Science departments in FAS was $93,626,866.

- The Net Operating Support for the Computer Science department was $15,396,359

According to the enrollment numbers in the 2018 CUDO report [5]:

- The total enrollment in all science programs in FAS was as high as 15,546. This is based on summing the enrollment counts in all science programs listed in the CUDO data.

- The total enrollment in the Computer Science program was 2364.

Based on these enrollment costs and departmental budgets, the average per student departmental cost for science departments in FAS was at least $6,022. The per student departmental cost for the Computer Science department was $6,512. *These numbers show that the per student cost for the Computer Science department is comparable to the per student costs for other science departments at the University.* The Administration has not provided any evidence to the contrary – so suggestions that the 87% higher tuition can be explained by program cost, or that more equitable tuition would necessitate cuts to the Computer Science departmental budget, are unfounded.

5.2 Financial Aid and the Student Access Guarantee

On numerous occasions, when explaining the higher tuition policy for students in CS, BCB, and DS, University administrators have lauded the University's financial aid programs and cited the University's "accessibility statement," which promises that "No student offered admission to a program at the University of Toronto should be unable to enter or complete the program due to lack of financial means" [**planning˙and˙budget˙office˙tuition˙nodate**]. Despite their claim to this promise, the University's policy on differential tuition for students in CS, BCB, and DS makes an education in one of these fields inaccessible to many UofT students.

In implementing this guarantee, the University relies on the OSAP definition of financial need when deciding eligibility for financial aid — but the OSAP definition is quite restrictive, and it leaves many low-income and lower-middle income students without adequate support, while their families still need financial support. The problem of students following through the gaps of financial aid

program eligibility criteria is not new; for one example, Marc Frenette of Statistics Canada wrote about this issue in 2008, writing that "enrolment patterns by socioeconomic background changed substantially in Ontario" as a result of tuition deregulation and that "'middle-class' students. . . saw their probability of enrolment decline quite substantially" [3, pp. 92, 101]. In general, if a student is not eligible for OSAP, they're not eligible for University of Toronto Financial Aid – so the University's financial aid and accessibility guarantee is nothing more than an empty promise, in the experience of thousands of students.

Additionally, international students are entirely excluded from this accessibility guarantee, as indicated by the Assistant Vice-President, Planning and Budget at the Academic Board in March 2021 – no financial aid at all is available to international students in CS, BCB, and DS.

The responses to our survey on the effects of tuition on students at the University of Toronto are more evidence that the University's "accessibility statement" falls short [2]– 41% of domestic students and 58% of international students indicated that the higher tuition in CS, DS, and BCB affected their decisions to study these programs by a high or very high degree.

In response to our survey and at our six tuition consultation events [2], students shared their experience of being those left out of the University's so-called accessibility guarantee:

- Some students indicated that although their parents are unwilling or unable to support their tuition payments, OSAP still considers their parents' incomes when deciding need. One such student indicated that they felt forced to take part-time employment and to constantly worry about how they'll pay their tuition:

  "[The University's higher tuition policy has] worsened my financial position and forced me to take regular part time employment during the school year (negatively impacting my grades) and [to] seek internships/other jobs during the summer. Even now I am not sure how I'll pay next year's tuition, so financial issues are a constant lingering presence. The fact is my parents won't pay for my tuition (partly because they can't afford it) - this is not reflected on OSAP forms [because] I 'live at home' so the financial burden is entirely on me."

- Other students indicated that they have been forced to become part-time students, since they could not afford the full-time tuition charged to students in CS, BCB, and DS. One such students reflected that they may be forced to delay their studies to the expense, and that because they are not eligible for OSAP, they are also not eligible for the university's financial aid programs:

  "I only study part time because I can't afford full time [Computer Science] tuition, while continuing to work in a field which I'm not interested in. I can't get OSAP as I already have an old outstanding loan that went into phase 2 of repayment assistance - I'm currently doing a second degree. There are a lot of programs available for students who can't afford tuition,

but most of them aren't available to me because I'm not eligible for OSAP. I think it's assumed that a lot of students live rent-free during the pandemic, but as an older student I have to pay rent as well. Due to these financial pressures, I most likely have to delay my studies. [The higher tuition policy] presents a significant barrier to accessing the program and makes it impossible [for me] to study full time."

- Some students who do receive financial aid indicated that even with the aid, they did not have sufficient support to be able to afford the high fees charged in CS, BCB, and DS. One wrote: *"I have more stress knowing how much more I will have to pay for university, especially since OSAP [does not] covers all of my university fees."* Another student indicated that even with financial aid, they were forced to visit use a food bank since they could not afford food due to the high cost of living in Toronto and the added expense of tuition in CS, BCB, and DS programs: *"It's very stressful in combination with the high living costs in Toronto. I have to visit the food bank to get by, and that is with maxed out student loans."*

These types of accounts continue in many of the over 300 responses to our survey, expressing concerns that are shared by many students in our programs. If the University administration is serious about their commitment to access to the Computer Science, Data Science, and Bioinformatics programs, then they should avoid overselling student aid programs and take urgent action to reduce fees in these programs, to bring them in-line with other science programs at the University.

5.3 Post-graduation Income Prospects

One justification we have heard for the higher tuition in CS, BCB, and DS programs is that students in these programs are expected to earn more after graduating. This is justified in reference to the University of Toronto *Tuition Fee Policy*, which states that "fee levels should be relatively higher in programs for which the future income prospects of graduates are relatively higher."[9]

First of all, this justification is incorrect because there is little evidence that CS, BCB, and DS students will earn more across the board compared to all other science programs. According to a Statistics Canada 2020 study, the median income of a Computer Science graduate was $71,573$; the median income for a graduate in Physical sciences was higher, at $75,259$.[4] Physics graduates also had a comparable median income of $68,504$.[4] So, the evidence does not support the claim that CS, BCB, and DS graduates necessarily earn more than other science students.

Further, we believe the *Tuition Fee Policy*, which has not been updated since 1998, is out of date and not in-line with the University's significant focus on equity and accessibility that is core to its institutional purpose and its *Defy Gravity* campaign. In our consultation sessions with students, students were informed about the contents of the *Tuition Fee Policy* and asked to provide

feedback; many indicated that that charging students higher fees based on what they may earn post-graduation was fundamentally unfair. We agree.

Higher fees based on post-graduation income prospects are not justified: this policy incorrectly assumes a student's career trajectory, incorrectly values a University education based on income prospects, unfairly penalizes students before they have made an income, and is also not applied consistently across programs.

The policy incorrectly assumes a student's career trajectory, since it assumes that because a student is studying Computer Science they will necessarily end up working in the Software industry. Even if that assumption were right, income prospects in the industry are highly varied and so it is far from guaranteed that students who end up working in Software will make a markedly higher income than other science graduates. Many students who study Computer Science end up going into other fields: students go into academia, information technology, banking, teaching, law, and entrepreneurship; just to name a few.

The policy incorrectly values a University education based on income prospects. The purpose of studying at a University is much more than securing a high-paying job. Students should be encouraged to study multi-disciplinary and broad programs, without being penalized financially for choosing their program of intellectual interest. Tying tuition to income prospects inappropriately values a degree based on earning potential.

The policy unfairly penalizes students before they have made an income; despite the fact that they may only realize the higher relative income prospects in five or ten years – if at all – students are charged thousands of dollars more *today*. They do not have the means to afford this higher tuition now, but are billed for it now. The result is that these students face the inequitable access and mental health issues described in this report; these issues are not alleviated by some specious higher future income prospects.

Finally, the policy is not fairly applied across programs. The Statistics Canada survey cited above shows a range of different income levels for different programs, and yet CS, BCB, and DS programs are the only ones with differentiated tuition fees. If future income prospects is a part of the criteria used to justify higher fees, the University should publish its data on income prospects for all programs and justify all differentiation or lack of differentiation of tuition between programs.

6 Our Ask of Governors and Board Members

The Governing Council and its Boards will have the opportunity to review the University Budget and tuition schedules. We are asking for Governors and Board members to ask questions of the administration to ensure they respond to these concerns, and to call on the administration to commit to a timeline to reduce fees for students in CS, BCB, and DS to be equal to the fees paid by students in other science programs.

We are grateful for your consideration and support of our campaign for equitable tuition in Computer Science, Bioinformatics, and Data Science. Our contact information is included on the cover of this report should you have questions or concerns, or are interested in discussing this with us further.

Our students earn the same degree as all other science students. We should pay the same fees.

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[8] *Tuition and Ancillary Fees Reporting Operating Procedure*. 2019. URL: http://www.tcu.gov.on.ca/pepg/documents/mtcu-tuition-and-ancillary-fees-reporting-operating-procedure-mar2019-en.pdf.

[9] *Tuition Fee Policy*. Apr. 30, 1998. URL: https://governingcouncil.utoronto.ca/secretariat/policies/fees-tuition-fee-policy-april-30-1998 (visited on 03/08/2022).

Appendices

A   Survey Analysis

See following page.

The Effects of Higher Tuition on Students:

An Analysis of Student Feedback from the University of Toronto Tuition Consultation Survey

Same Degree, Same Fee Campaign Committee

A joint committee of the Computer Science Student Union, Bioinformatics and Computational Biology Student Union, Arts and Science Student Union, and University of Toronto Students' Union

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University of Toronto
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March 13, 2021

1 Executive Summary

We collected data from over 350 students on how higher tuition in Computer Science, Bioinformatics, and Data Science affected their lives. Through this analysis we investigated the impact on accessibility, mental health and pressure (financial, social, familial) of this tuition policy. We concluded that these higher fees substantially deter students from pursuing CS/DS/BCB programs, harmed student mental health and created an unforgiving, competitive, stressful environment in these programs.

2 Methodology

2.1 Survey

Our primary source of data collection was a survey that we released and promoted through online platforms. This survey has currently reached **334** students, out of which **224** or 67.27% were in CS/DS/BCB programs and **110** or 32.73% were in other programs in the Faculty of Arts and Science at the University of Toronto. We gathered numerous demographic data points from respondents, including their program, gender, year, race/ethnicity and international/domestic student status. Then, we asked the following **5** quantitative questions:

1. Students in Computer Science/Data Science/Bioinformatics pay higher fees than others in the Faculty of Arts and Science. To what degree did these fees affect your decision to study or not to study Computer Science/Data Science/Bioinformatics?

2. To what degree have program fees influenced your decision to continue or change out of your program (currently or in the past)?

3. To what degree have your tuition fees negatively affected your mental health?

4. To what degree do you feel pressured to take on additional part-time employment or to compete for internships, *as a result of the tuition fees you pay*?

5. Please indicate how much this sentence applies to you: "I feel/felt greater pressure to compete for marks and jobs as a result of my tuition fees."

Students would select a value between 1 and 5 which determined how strongly they felt about the statement or to what degree it applied to them:

1. *Very low* 2. *Low* 3. *Neutral* 4. *High* 5. *Very high*

This allowed us to gauge how students are feeling about different issues, as well as allow us to compare answers across programs/gender/race and other categories, allowing us to find issues of high prevalence.

We also asked the two following qualitative questions (for which students had the opportunity to remain anonymous):

1. If you're in Computer Science, Data Science, or Bioinformatics, please describe how, if at all, higher tuition fees have affected your mental health?

2. If you're in Computer Science, Data Science, or Bioinformatics, please describe how, if at all, the higher tuition fees have affected you? Please feel free to touch on any aspect of your life, from financial pressure, to mental health, social life, professional development, or anything else. Your answers will inform the CSSU's advocacy on this issue but will remain confidential, unless you consent to us sharing your response.

These questions allowed us to further investigate individual cases and see if we could piece together a coherent picture of how tuition fees impact different people and the extent to which they do.

Furthermore we asked if students would accept another program because it had a lower tuition cost.

Lastly, we asked what the estimated annual household income was in the students' family, to see if we could find any relations between CS/DS/BCB students and their family income, or to see if lower income families were disproportionately affected by the higher tuition for CS/DS/BCB at UofT.

2.2   Tuition Consultations

Apart from the survey, the CSSU also held **tuition consultation sessions** where we encouraged students from all programs to come and share their story in a small focus group setting. We interviewed approximately 55 students in this format, and their feedback has been integrated throughout this report.

3 Effect of Tuition on Program Decisions & Accessibility

3.1 Decision to Study CS/DS/BCB

In this section, results from the survey will be explored to determine how much higher tuition fees impact students' decision to study Computer Science. To accomplish this, we look to the responses to Question 1.

Question 1: To what degree did these fees affect your decision to study or not to study Computer Science/Data Science/Bioinformatics?

Question 1, Domestic vs. International
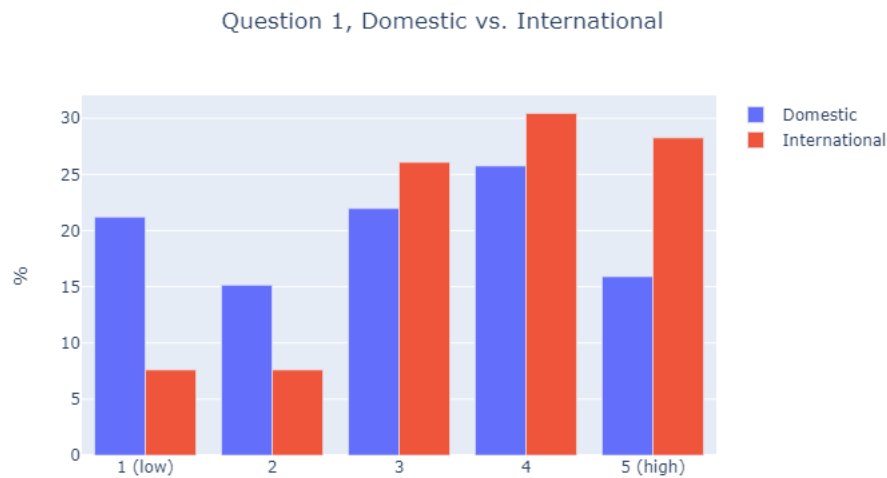
58% of international students and **41%** of domestic students indicated that tuition fees have influenced their decision not to enter these programs to a high or very high degree, showing that the higher tuition has a considerable effect on their choice to study Computer Science. In fact, only **15%** of international students indicated that tuition fees have influenced their decision not to enter these programs to a low or very low degree.

Considering the difference in the amount of tuition fees between domestic and international students, international students would have much more of a financial burden should they choose to study CS/DS/BCB. By decreasing these fees, these programs would be a lot more accessible to all students, allowing them to pursue their passion without having to worry as much about their financial situation.

Question 1, Based on Race
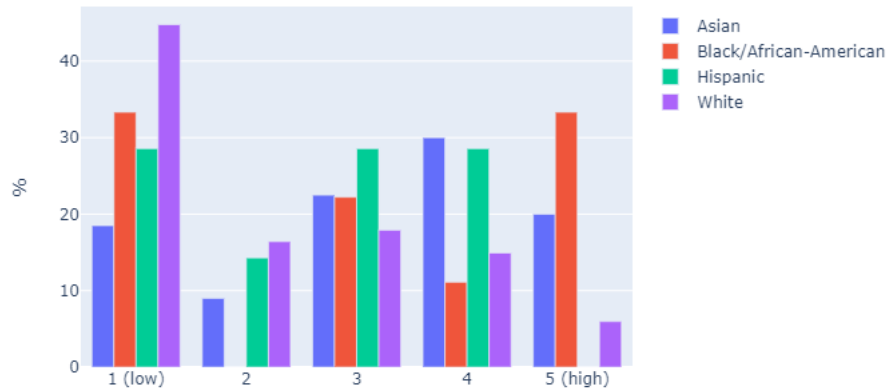
In this plot comparing the responses of students in CS/DS/BCB based on their race, it's clear that there is a disproportionate amount of students who identified as White (**44%**) that said that the fees didn't affect their decision to study CS/DS/BCB. Contrast this with **50%** of students who identified as Asian and **44%** of students who identified as Black/African-American who said that the fees considerably impacted their decision to study CS/DS/BCB. For additional context, **28%** of students who identified as Hispanic and **21%** of students who identified as White indicated that tuition fees have influenced their decision not to enter these programs to a high or very high degree.

This data suggests that the tuition fees more strongly affect the decisions of students from minority groups than that of students who identified as White. In summary, by reducing tuition fees, CS/DS/BCB would be more accessible to minority groups.

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3.2 Decision to Continue Pursuing CS/DS/BCB

Question 2: To what degree have program fees influenced your decision to continue or change out of your program (currently or in the past)?

Question 2, Based on Race
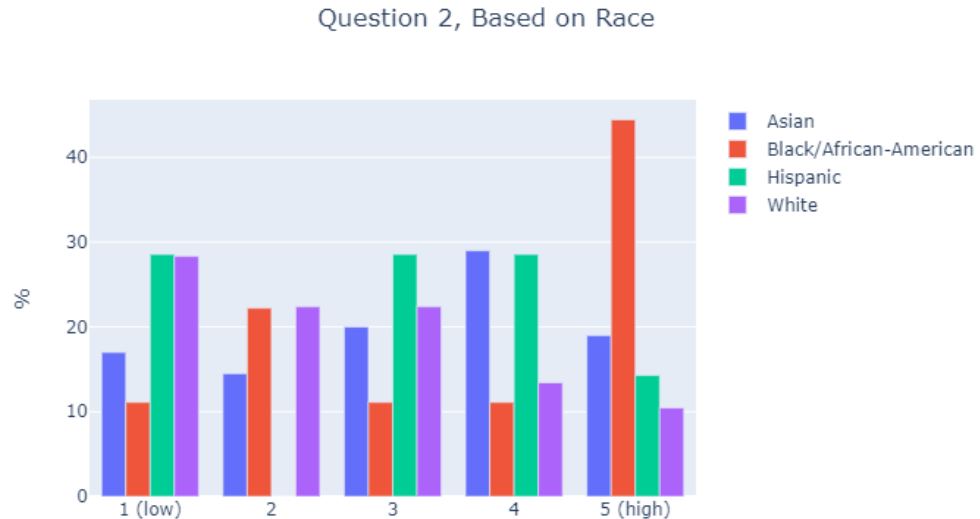
44% of the Black/African-American students indicated that program fees have influenced their decision-making to continue or change out of their program to a high or very high degree, illustrating that even once they get into Computer Science, the constantly looming thought of tuition makes them reconsider their program choices. To put the disproportion into perspective, the percentage of students from other races who indicated that the fees have impacted their decision to a high or very high degree put together doesn't even match the percentage of Black/African-American students who did. When almost half the students from a particular race alone rated this question that strongly, it must be said that something should be done to rectify this. Students should continue to study in the program they worked tirelessly to get into without constantly being reminded of the heavy price to pay in exchange.

Question 2, Based on Gender
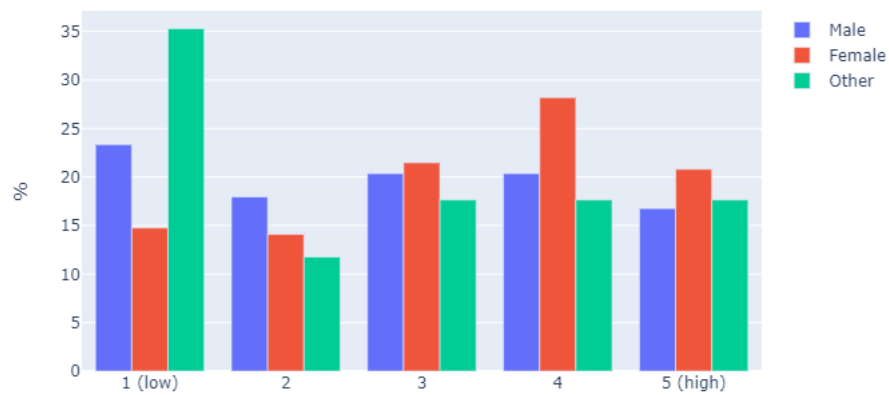
In this plot comparing the responses of students in CS/DS/BCB based on their gender, it's clear that more women indicated that program fees have influenced their decision-making to continue or change out of their program to a high or very high degree than men and other genders. More specifically, 8% more women than men and 10% more women than other genders indicated the fees have impacted their decision to a high degree and 4% more women than men indicated the fees have impacted their decision to a very high degree. This suggests that women seem to be affected more by the higher tuition fees and are more inclined to change out of CS/DS/BCB than students of other genders. With a current lack of women in Computer Science, the higher tuition fees only seem to further increase that disparity.

CS/DS/BCB should be programs that people want to pursue and stay in and these fees are only pushing people away from them. Some simply can't afford to pursue or continue pursuing their passion for CS/DS/BCB, having to pursue an alternative when they should be free to do what they enjoy doing.

Question 2, CS/DS/BCB vs Other Science Programs
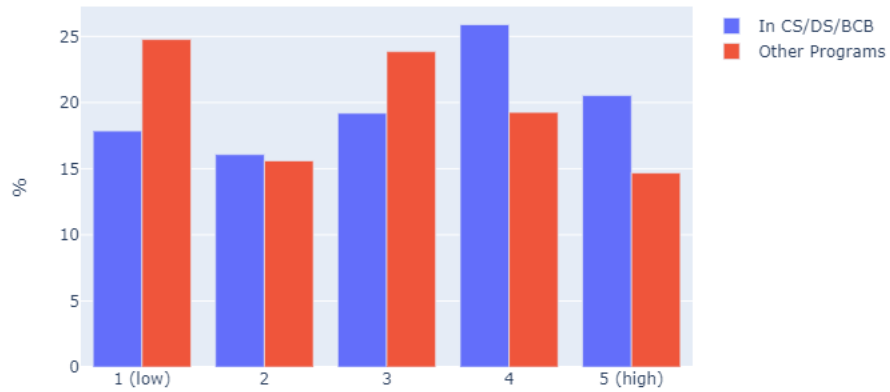
Question 2, Domestic vs. International
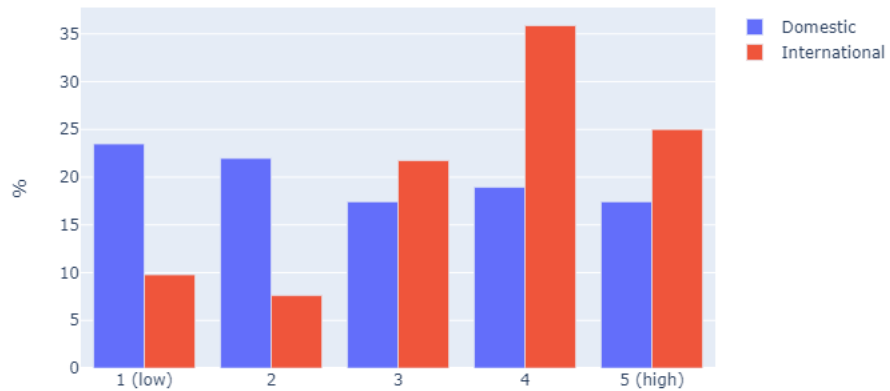
The findings showed that the University's policy of higher tuition for CS, BCB, and DS students makes access to these programs less equitable. Of students not in CS, BCB, or DS, **31%** of students indicated that the higher fees in CS, DS, and BCB affected their decision not to enter these programs by a high or very high degree. Of students in CS, DS, or BCB, many students indicated

that fees have been a factor that has motivated them to consider switching to a different program: **36%** of domestic students and **61%** of international students indicated that program fees have influenced their decision-making to continue or change out of their program to a high or very high degree.

Here are quotes from students on this issue:

> *"I've been plagued by indecision since deciding on the program. As a first year I haven't committed yet, so almost every other night I get anxious about my future finances, pull up the academic calendar, look at other programs - any other deregulated program - to see if I think I'd enjoy them instead, and I try to rewrite my schedule to take it instead. I've reviewed the options countless times, and I'm fully decided on CSC and BCB rationally, but I still feel anxious about it and feel pressured to find another option."*

> *"I only study part time because I can't afford full time tuition, while continuing to work in a field which I'm not interested in. Because of this, it's also hard to work on any side projects because I'm working most of the time. (I can't get OSAP as I already have an old outstanding loan that went into phase 2 of repayment assistance - I'm currently doing a second degree. There are a lot of programs available for students who can't afford tuition, but most of them aren't available to me because I'm not eligible for OSAP.) I think it's assumed that a lot of students live rent-free during the pandemic, but as an older student I have to pay rent as well. Due to these financial pressures, I most likely have to delay my studies."*

> *"Originally when I entered U of T, I didn't plan on even entering CS, and so entered based on the fact that I would pay the regular U of T tuition. However, I discovered in my first year that CS was my true passion - only to find out that my tuition fees would nearly double as a result of switching to it. This caused me to seriously doubt my decision to switch despite knowing it was what I really wanted to do. I ended up still going into CS in the end because I knew it would kill me to have to sit by and do something else while my true path that I wanted to follow lay inches away, but it's caused a large financial burden for me, and so I've been quite stressed recently especially given the current economy that I have to be able to find a well paying internship for essentially every year to be able to graduate without an outrageous amount of debt at the end of my degree."*

Here are some of the over-arching themes that were present in the qualitative responses.

- A number of first year students said that they are seriously considering not entering the Computer Science or Bioinformatics program, because of uncertainty of their family's ability to pay for the higher fees.

- Similar sentiment was described by students in their second year considering transferring into Computer Science, but who chose to study other programs so as to avoid paying extra tuition 'retroactively' for all the years they have been completing their undergraduate degree.

- Numerous students decided to study a Computer Science *minor*, so as to avoid the higher fees of the major and specialist program: *"I chose not to major in Computer Science (even though I took all the required courses and I really enjoy the program) and opt for a minor instead because of the fees. I feel very limited by the high tuition fees because I really like studying Computer Science and feel very uncertain about whether this would affect my future employability."*

4   Effect of Tuition on Student Mental Health

4.1   Mental Health

In this section, results from the survey will be explored to determine how much higher fees for CS/DS/BCB programs impact the mental health of students. First we will look at quantitative answers to Question 3.

Question 3: To what degree have your tuition fees negatively affected your mental health?

Question 3, International vs Domestic
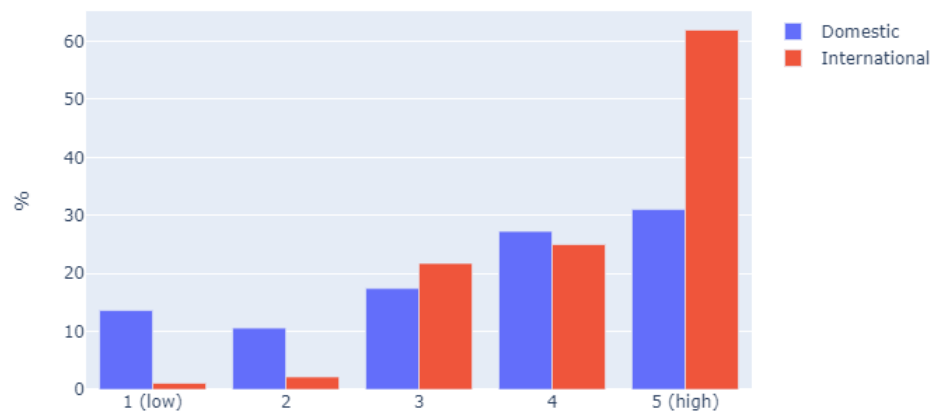
The displayed data is for both international and domestic students in CS/DS/BCB programs.

87% of international students in CS/DS/BCB programs indicated that the tuition fees have negatively impacted their mental health to a high or very high degree, showing just how much their tuition fees negatively impact their mental health. In fact, only **3%** of international students indicated that the impact of higher tuition impacted their mental health to a low or very low degree. It must be taken into consideration that international tuition fees are far higher across the board for all faculties and programs, not just CS/DS/BCB, so that would definitely factor into this gathered data, however, it is clear that removing the higher tuition fees for these programs would definitely help international students improve their well being.

Looking at domestic students in CS/DS/BCB, **58%** indicated that tuition fees have negative impacted their mental health to a high or very high degree. This means that over half of the domestic students believe that their tuition fees
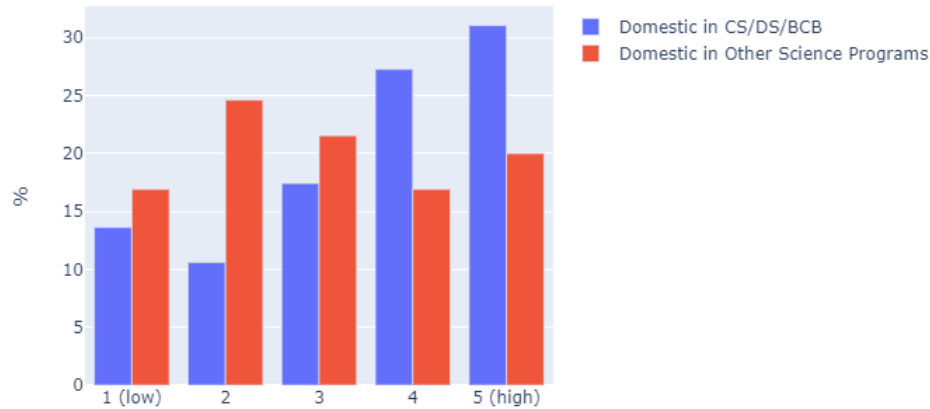
The displayed data is for domestic students in CS/DS/BCB programs and domestic students in other science programs.

58% of domestic students in CS/DS/BCB programs said that their tuition fees negatively impact their mental health to a high or very high degree. Comparing this to the **37%** of domestic students in other science programs who reported the same, we find that there were **56%** more domestic students who felt this way in CS/DS/BCB than in other science programs, showing the impact the higher tuition fee has on the mental health of students in CS/DS/BCB programs.

Regardless of whether students have international or domestic status, the higher fees for students in CS/DS/BCB programs clearly negatively impact their mental health at a very high rate.
Here are a few quotes from a student on the impact of tuition on their mental health showing the direct impact of tuition fees on mental health:

> *"The immense burden that is the high tuition fees makes me take more courses than I can manage to avoid having to take an extra year I cannot afford, when I don't do well I panic because I need to be able to get a good internship or I might not be able to finish my program, the bad state of my mental health has made me seriously consider dropping out or reduce my course load but I feel too guilty for all the money I've already spent to be in this program."*

> *"As a CS student, we already have a lot of competition, so we have to perform our best in studies. But we also have one of the highest fees. Hence we also have to work part-time/full-time jobs. A part time job is roughly 20 hours of work (that we are forced to do). It is tiring*

and the work life itself causes a lot of mental stress. And on top of that, we have to perform our best in school as well. When we have to pay more fees, it is an instinctive decision to want to successfully complete the degree with an outstanding GPA. All this put together very negatively impacts mental health of Computer Science, Data Science and Bioinformatics students."

"It is mentally devastating having to constantly worry about paying the fee off."

"The higher tuition fees have made taking a year for PEY necessary to help reduce my debt coming out of university. Graduating a year sooner would've allowed me to get a full-time full-salary job a year sooner as opposed to having an intern salary, but I need the money now to limit the amount of debt I'll have when graduating. The cost of tuition has also been a contributing factor to my struggles with anxiety, as the pressure of having debt has made me anxious about spending money and made me very stingy about buying anything, including essentials. I got to the point in second year where I tried to minimize my spending on food to save more money, and I wasn't feeding myself enough."

"My courses, especially 1st year POSt, was/are mentally draining and having to think about the loans on my higher tuition without a clear indication of my future often sends me into deep spirals of depression and anxiety. I don't like the notion that because of my program and the fact that I pay higher fees means that I for sure will graduate into a high paying job. It makes me nervous of the fact that I may not live up to this expectation and it's hard to talk about it socially because everyone has that expectation of you."

"Financials contributed to my moderate to severe depression in 2nd and 3rd year." Numerous students expressed that they struggled with depression related to the financial burden of tuition in Computer Science, Bioinformatics, and Data Science.

Question 3, Across Different Races
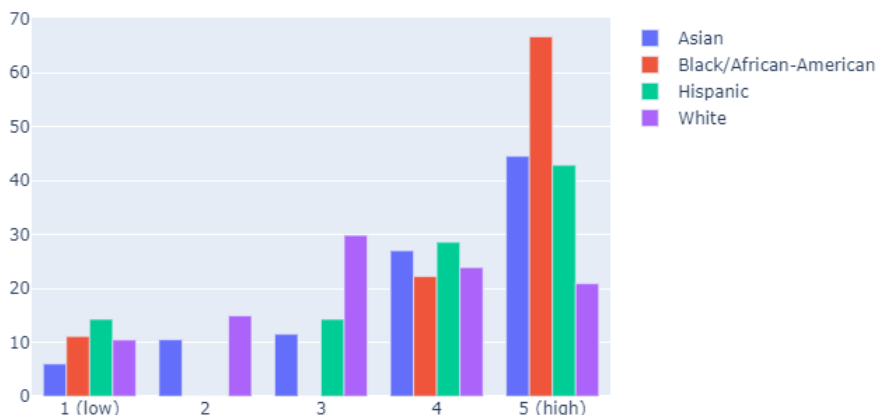
The displayed data is for CS/DS/BCB students, organised by the race they self-identified with.

89% of students who identified as Black/African-American indicated that the tuition fees have negatively impacted their mental health to a high or very high degree. This is an shows how much the higher tuition fees in these higher-fee programs are disproportionately impacting minority groups. Hispanic students and Asian students rank next, with **71%** of Hispanic students and **72%** of Asian students indicated that their tuition fees have negatively impacted their mental health to a high or very high degree. For the group of students that self identified as White, there are **44%** of students who indicated that their tuition fees have negatively impacted their mental health to a high or very high degree.

There is clearly a trend here. Minority groups can clearly be seen to have their higher tuition impact their mental health far more on average than students who identified as White.

4.2 Pressure

Another issue that directly contributes to mental health is pressure. Questions 4 and 5 on our survey addressed this and gathered data on how much pressure was being put on students due to their higher tuition fees in CS/DS/BCB programs.

Question 4: To what degree do you feel pressured to take on additional part-time employment or to compete for internships, *as a result of the tuition fees you pay*?

13

Question 4, Across Programs
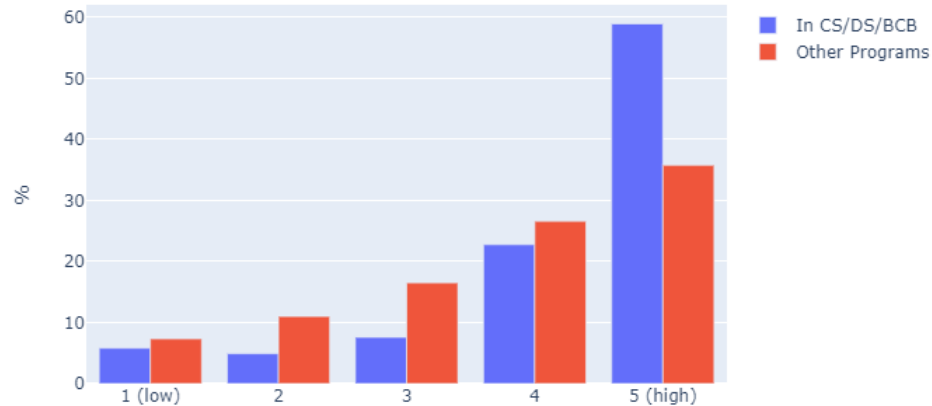
 The displayed data is for students in either CS/DS/BCB or other science programs at UofT.

81% of students in CS/DS/BCB indicated that they feel pressured to a high or very high degree to take on additional part-time employment or compete for internships for Question 4, which shows that there is pressure on more than $\frac{4}{5}$ students in these programs to compete for job opportunities or seek part-time employment.

Contrast this to the **61%** of students not in CS/DS/BCB who feel pressured. This means that **20%** more students in these higher-fee programs feel the need to compete for additional employment than students in other programs.

This pressure takes a toll on the mental health of students especially in CS/DS/BCB and contributes to the cut-throat competitive nature of these programs that is so despised by students in these programs.

Question 4, Across Races
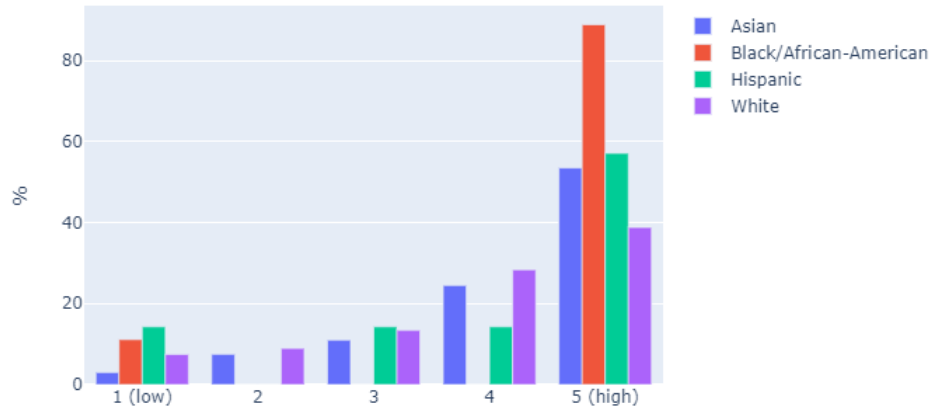
The displayed data is for students in CS/DS/BCB organised by the race they self-identified with.

Similar to the figure for mental health (Q3), a very high proportion **88%** of students who identified as Black/African-American indicated that they extremely feel pressured to take on additional part-time employment or compete for internships. This is very disproportionate, as all of the other groups of students didn't indicate so to nearly that rate. This again shows the inordinate impact the higher fees have on Black / African-American students. They feel extremely pressured to compete for jobs and this pressure on top of the pressures of doing well academically is a lot to bear and something the University should seek to address.

The next groups who feel the most pressure to seek external employement are Asian students **(78%)** and Hispanic students **(71%)**. **67%** of students who identified as White felt similarly. Thus, across the board, regardless of race there is definitely a huge portion of students who feel this additional pressure which must definitely take a toll on their mental wellbeing.

Question 5: Please indicate how much this sentence applies to you: "I feel/felt greater pressure to compete for marks and jobs as a result of my tuition fees. "

Question 5, Across Programs
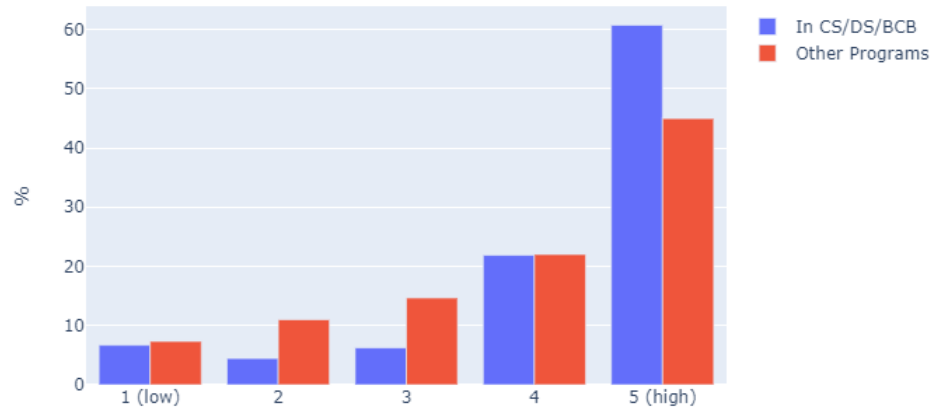
The displayed data is for students in either CS/DS/BCB or other Science programs at UofT.

83% of students in CS/DS/BCB programs indicated the sentence strongly applied to them, showing the severe pressure their higher tuition fees place on them in competing for high marks or jobs. Contrast this to the **62%** of students not in these other science programs who felt the same way. This means that **21%** more students in the higher-fee programs felt this pressure than students in other programs showing a clear and obvious consequence of this tuition schema.

On top of all of the regular pressures faced by CS/DS/BCB students such as having to achieve certain marks to ensure they remain in the program, there are immense additional pressures directly due to their tuition fees as can be seen clearly by these survey results.

Question 5, Across Races
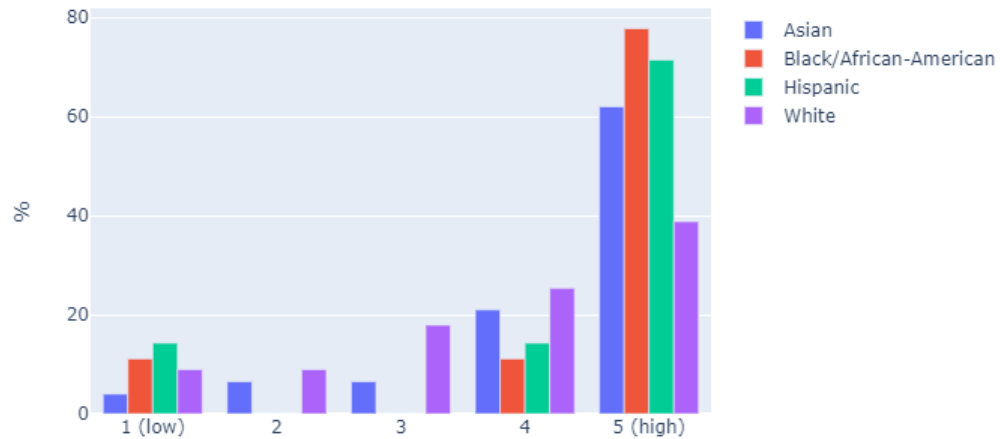
The displayed data is for students in CS/DS/BCB categorized by their self-identified race.

Looking at this distribution we can clearly see that there is a greater impact of higher tuition fees on marginalised groups and how they feel pressure due to their fees to compete for marks and compete for jobs.

89% of students who identified as Black/African-American felt immense pressure to achieve high marks or compete for jobs due to their tuition fees (rating high or very high), followed very closely by the **85%** of Latino students who also felt the same way. A very comparable **83%** of Asian students also ranked this question 'high' or 'very high'. When more than 4 out of 5 students in each of these groups feel as though their higher tuition fees directly contribute to pressure to achieve high marks and compete for jobs, it is very evident that there is a problem with the system. **63%** of White students also feel this additional pressure which is still a very high number of students.

Here are a few quotes from students on how their higher fees increase the pressure they feel to compete for internships, find additional employment or maintain a high GPA.

> "It puts a lot of stress on my dad and on me because I have to do better academically, and also outperform others for an internship opportunity, which I've been unable to do so far. My brother is also

17

in university (Trent), and so we have to pay extra. This high fees is leading me to do extra courses per semester so that I can graduate a semester early, and save $30K CAD, since our finances are stretched thin. Therefore, I'm unable to actually thrive in any of my courses, because the deadlines just keep piling up, and only some professors give extensions. I have also really suffered from not being able to meet ANY of my friends, even before lockdown. It's a lot to handle, and I don't know how we've been handling it all this time, but I'm barely hanging on. "

"It has bred unhealthily high stress over assignments and tests, and a more competitive and elitist atmosphere."

"I have to work a part time job, as well as full time to pay for my tuition. My summer's recently have been filled with working 40-80 a week to pay my tuition, I am paying for everything myself as a student. There is a lot of stress that comes from not having time to relax and to focus on money. I am also on student loans and that is always on the back of my mind. I just wish I had more time, I know there have been plenty of times where my job had conflicted with my lecture times, and time related to working on group projects and assignments."

"I've pretty much had to eliminate my social life. Social life = less time to study = higher chance to fail = need to pay to take course again. The fees are just too high to take that kind of risk. It's heavily affected the amount of time I can spend with my family. I've had to make decisions to ignore my family at times I wish I hadn't."

4.3   Summary of Results

As shown in the gathered data, the higher tuition fees severely impacts the mental health of students in CS/DS/BCB programs. With high percentages of students feeling pressures to compete for marks and compete for internships, it is evident that this burden will only serve to worsen their mental well-being. Students face enough pressure from school as it is. It is concerning that over **80%** of students regardless of race, student status, gender or economic background, feel as though the degree to which their extra fees impact their mental health is 'high' or 'very high'.

The data also shows that marginalised groups get 'hit harder' by their extra fees and the higher tuition fees impact the mental health of students in these groups even more.

International students already pay significantly higher tuition than domestic students. It is clear from the survey results that their mental health and well being is immensely impacted by their tuition fees (in rates much higher than

even domestic students). On top of this international/domestic difference in fees, students in CS/DS/BCB programs also pay these additional fees. The stress placed on international students is evident, and should be adhered to as well.

5   Other Effects of Tuition on Students

Higher tuition fees is a constant worry to the overwhelming majority of students we surveyed. While their effects vary from situation to situation, there are common patterns in the student's responses.

The most common concern comes from students claiming to feel incredibly overwhelmed by the responsibility to perform imposed by parents given their high investments. Many students also mentioned that such constant worry escalated to cases of severe anxiety and depression.

While some students feel distressed about this uncomfortable situation, many are forced to halt their studies due to the high tuition fees. Here, we quote some of our surveyed candidates representing most of the struggles we hear from students.

> *"I currently work part time teaching students, and despite earning money in that way, I still feel pressured by tuition fees, and holidays feel like extra time for me to work. I often feel depressed and anxious about my future as a UofT student."*

Students are often compelled to alter their career trajectory in different ways to account for their tuition payments.

> *"I am uncertain about my ability to continue in the program because of the high tuition, and it's difficult to plan for the future when I don't know if I can afford it. (…) This is also why I am considering PEY - I really don't want to lose an academic year but $13,000/year needs to be paid somehow."*

In many ways, the lack of financial support causes students to work extra hours and cut down ties with family members.

> *"Higher tuition fees is a constant reminder of the debt that I must repay, adding in more pressure to how I must perform in my courses. Higher tuition fees has significantly reduced spending in our family as we try to save as much as possible to make ends meet and reduce the amount in debt."*

In some situations, even the decision to interrupt studies driven by lack of financial support adds to the guilt students have with regards of losing their parents money.

"I feel incredibly guilty for having to cost my parents so much. Out of fear of going into debt, I have been too afraid to spend any of my money on myself at all. Finances are the first thing that cross my mind whenever I consider doing anything. I have been incredibly stressed and anxious and tried to focus on my studies above all so that I can maybe get an award. "

6 Conclusion

We set out to see how higher tuition fees in CS/DS/BCB programs affected students on an individual level. After analyzing this data, there are a few themes that are evident.

Firstly, the higher tuition causes accessibility issues for students. Nearly **31%** of students not in CS/DS/BCB programs indicated that the higher tuition fees were an influential factor in their decision to not study the program they are passionate about. Close to half of the students in CS/DS/BCB programs also considered changing to a program with lower fees.

There is also a significant impact of the higher tuition fees on the mental health of students' in these programs. Whether it be financial pressure, family pressure or even pressure to not fail, there is a lot of stress placed on students on top of their difficult coursework.

In both themes, racially marginalized students appeared to be most significantly affected by the higher tuition in CS/BCB/DS.

All in all, the data shows that this tuition policy greatly impacts the quality of life and mental well being of students in CS/DS/BCB programs, and the equity of access to these programs. The University should act to alleviate these serious mental health and equity concerns caused by the higher fees in the Computer Science, Data Science, and Bioinformatics Program.

Appendices

A Quotes on Mental Health and Pressure

- *"I currently work part time teaching students, and despite earning money in that way, I still feel pressured by tuition fees, and holidays feel like extra time for me to work. I often feel depressed and anxious about my future as a UofT student."*

- *"There is huge financial pressure on me individually, despite the help from my father the fees are unreasonably high, and I have lost social life due to part time jobs and university study life."*

- *"Just look at the international tuition fee. If you don't get a panic attack for not living up to what your family has invested into you, I don't know what will."*

- *"It puts a lot of stress on my dad and on me because I have to do better academically, and also outperform others for an internship opportunity, which I've been unable to do so far. My brother is also in university (Trent), and so we have to pay extra. This high fees is leading me to do extra courses per semester so that I can graduate a semester early, and save $30K CAD, since our finances are stretched thin. Therefore, I'm unable to actually thrive in any of my courses, because the deadlines just keep piling up, and only some professors give extensions. I have also really suffered from not being able to meet ANY of my friends, even before lockdown. It's a lot to handle, and I don't know how we've been handling it all this time, but I'm barely hanging on. Also, a lot of our plans have been put on hold, and I understand that it's normal for university, but it shouldn't be to this extent."*

- *"It has increased the amount of stress I have and added to the already competitive pressure of the program, it feels too much at a time."*

- *"I receive additional pressure from my family to find an internship or a job as well as achieve higher marks in my courses as a result of the high program fees. They expect me to pay part of my degree fees on my own. However, the job market and the courses are already very competitive so this causes me a lot of stress."*

- *"It's very stressful in combination with the high living costs in Toronto. I have to visit the food bank to get by, and that is with maxed out student loans."*

- *"I felt a stronger pressure to not fail/do poorly in my courses because I know so much money is going into my tuition fees, and I always don't want that to be a waste. This pressure has definitely affected my mental*

health at times, especially when I am not doing as well as I would have hoped. "

- *"When I think about repaying my student loans while also living on my parents' money, it makes me feel really bad when I fail at my studies. If I have to retake a course, I feel like I need to repay this by working part-time, or taking summer internships."*

- *"The immense burden that is the high tuition fees makes me take more courses than I can manage to avoid having to take an extra year I cannot afford, when I don't do well I panic because I need to be able to get a good internship or I might not be able to finish my program, the bad state of my mental health has made me seriously consider dropping out or reduce my course load but I feel too guilty for all the money I've already spent to be in this program. "*

- *"It has bred unhealthily high stress over assignments and tests, and a more competitive and elitist atmosphere."*

- *"My student debt is high, and I feel a lot of pressure to find a way pay it off quickly at all costs so I can remove that burden from my life. This, combined with the general academic pressure and poor pandemic learning conditions (bad value in terms of educational quality), and is putting a significant strain on my mental health."*

- *"I feel like the higher tuition fees give me more pressure to do well in school since my parents are paying more and I don't want to disappoint them or waste their money."*

- *"The already high competition for jobs and internships gives me a lot of stress."*

- *"The more my parents support my during school, the more stressful I am to find a good job, which makes me want to escape from the reality of competitive recruitment. "*

- *"Covid has had an impact on my family's health and income. My study permit requires me to be full time in order to obtain a work permit after school and therefore a gap year was out of the question. Online school doesn't make up for even 1% of the fees that I'm barely able to pay. I hope they realize the bad after taste they are leaving with their students. "*

- *"The pressure that I must perform well, is stressing me a lot"*

- *"There is a lot of pressure from both family and school to perform well in order to maintain the grades to stay within the program. I touch upon this a lot more in the following question's response."*

- *"There is a great deal of pressure, particularly what it does to me mentally and financially. At this point, having been in the program for even a year, there is a sunk cost effect going on where I can't just leave the program. After spending so much on just a couple years of tuition, there's so much pressure to continue because stopping would feel like losing more. One small decrease in a mark makes such a big impact, regardless of its actual effect; getting a slightly bad mark feels awful with this much pressure. In addition to the massive academic pressure and the mental health decline, I take so much time out of my day to focus on school that it's hard to manage relationships with family and friends. "*

- *"If I did not get a 4.0, I'm stressed because I have paid so much tuition."*

- *"Every time I get a bad score, I would be very sorry for myself and my parents. And in order to save money, I have decided to take 6 credits of courses every year. That's not easy work."*

- *"As a CS student, we already have a lot of competition, so we have to perform our best in studies. But we also have one of the highest fees. Hence we also have to work part-time/fulltime jobs. A part time job is roughly 20 hours of work (that we are forced to do). It is tiring and the work life itself causes a lot of mental stress. And on top of that, we have to perform our best in school as well. When we have to pay more fees, it is an instinctive decision to want to successfully complete the degree with an outstanding GPA. All this put together very negatively impacts mental health of Computer Science, Data Science and Bioinformatics students."*

- *"Mostly stress from needing to not only hit a certain grade each semester, but also ensure I take a certain number of courses each semester so I don't prolong my degree and end up paying more over time."*

- *"I've pretty much had to eliminate my social life. Social life = less time to study = higher chance to fail = need to pay to take course again. The fees are just to high to take that kind of risk. It's heavily affected the amount of time I can spend with my family. I've had to make decisions to ignore my family at times I wish I hadn't"*

- *"High tuition fees make me feel that I need to work harder to justify being in the program, and this burns me out."*

- *"The high fees limit the amount of extracurricular and social activities I can do."*

- *"First, I have to worry about getting a job to set off at least some of the tuition. Also, I feel stressed whenever I'm underperforming because I am always thinking about how I'm spending too much on tuition that underperforming feels like it isn't an option or I'll be wasting all my money. Moreover, I am constantly worried about whether or not I'll be able to*

continue at university because I do not even know if I'll be able to pay the tuition of next semester."

- *"I'm stressful because I have to do really well in courses and the cost of not doing well and taking them again is too high for me."*

- *"It makes me feel guilty that I am not working hard enough in my courses for the amount paid by my parents which negatively affects my performance as well"*

- *"Higher tuition fees have a great negative impact on my mental health, one that is sustained over the entire time I am in school, and pressures me to choose between necessary steps toward managing my mental health, and paying the tuition. "*

- *"University already comes with great pressure to find work immediately after leaving to pay off debt as well as to just survive. But to work part time, and be in 5 courses, or even 6 a semester to save money/pay off tuition has a ripple effect on all parts of life. It takes time away from hobbies that can help destress, mind you destress from the financially precarious position the tuition puts you in. As well as isolating you from peers as you all strive to out compete each other in grades, in work, in anything that might give you an edge later on. This creates a very precarious situation only amplified by outside of school stresses like family life, health, housing, and more."*

- *"It puts a lot of pressure on me, and makes me feel stressed out if I can't find an internship or job."*

- *"It sucks, first computer science is already super taxing, the amount of work you do is crazy. Then added on the fact that you are paying so much money, just to suffer, while other people in other unis or programs are paying much less, and they dont suffer as much either, makes you wonder why the heck i signed up for this in the first place."*

- *"I feel a huge burden to succeed and do well in my studies, else the money would be wasted. Plus i feel guilty because the money is not mine, its my parents. Therefore it really does push myself to find a job and get my own income, to make it seem less worse. Plus I dont feel comfortable sharing my tuition fees with friends."*

- *"It is not worth to be in a such competitive environment with such high tuition fees on the back. Competition is good, but does not work well when paying too much tuition fees."*

- *"Higher tuition fees seem to make getting 4.0 more of a necessary and must-do thing which is not healthy."*

- *"As an international student, there's more pressure to excel since there's quite a great price paid literally to get to attend university. We don't have as much leeway to take things easy; we can't usually get a lower course load or slack off at any point."*

- *"You begin to lose yourself trying to keep food on the table while trying to learn so much, making it twice as hard to develop a professional network and maintain friendships."*

- *"It makes me deter students from attending u of t for computer science. It makes me stressed and constantly concerned."*

- *"Feeling like not putting all effort and doing well would be a disregard and waste of my parents' effort. A minute of unfocusing can be seen as a countable waste. Worrying about when I can recompense. "*

- *"I'm taking 6 courses this term just to avoid taking class in summer and paying extra fee."*

- *"Anytime I don't meet my expectations, I am pressured into thinking I am just gonna have to quit."*

- *"I feel extremely pressured in that I have to achieve high grades to make my degree "worth the money" and also that I have to find an internship while in school, and a job right after graduation."*

- *"They push me to study more seriously, but it's very stressful. And I think this is a common sentiment among CS students."*

- *"When I struggled with classes or finding an internship, my mind would immediately make the situation worse by reminding me that the fees I'm paying are very high and that I should be doing better, otherwise I'm paying these fees for nothing. "*

- *"I don't understand that the school raised tuition fees during the epidemic, because the epidemic has affected the income of many families. My parents were under a lot of pressure so I was under a lot of stress. I have no choice but to pay such a high tuition fee"*

- *"Because of higher tuition, if I do poorly in any course, it gives me a lot if anxiety because retaking it means I have to stay in university and pay more for my already expensive education."*

- *"Since U of T charges students the same price whether they are taking 4, 5 or 6 courses, I have spent most semesters taking 5 courses, even though I find this to be a heavy course load. As I am scheduled to graduate this year, I am looking back on my years at U of T and realizing that I didn't have much of a life outside of school. I did a couple of extracurricular sports but I didn't make friends from that, and I never joined any clubs at U of T. I would say that this was primarily caused by my lack of free*

time, as I would spend nearly all of my time attending lectures, working on assignments or commuting to and from school. I feel that this contributed negatively towards my mental health, as I didn't have a good balance between school and my life outside of school. If tuition had been cheaper, then I likely would have considered taking an extra year and doing four courses per semester. However, given the expensive price that computer science students need to pay each year, I didn't feel that it would have been wise for me to pay for an extra year of tuition, which would have been necessary if I had done 4 courses each semester. So I decided to take 5 courses most semesters throughout my undergrad, with a lower mental health and a reduced enjoyment of school."

- *"I feel very aware of the gap in tuition between myself and other Arts Science students, and that leads to a feeling of obligation to achieve more as justification for getting my dollar's worth of my parents' money, which is the main funding source of my degree (as well as student loans). Of course this leads to a sense of despair when I inevitably fail to reach some of the goals I set for myself. Achievements don't feel like something I should celebrate, they feel like a must, and yet failure is felt with crushing despair that I am squandering this privilege of education. "*

- *"Only mental aspect is the usual effect of sleep deprivation and possible caffeine OD."*

- *"feeling extremely stressed about my marks, so that experience anxiety and panic attacks"*

B Quotes on Accessibility or Choosing Other Programs

- *"Originally when I entered U of T, I didn't plan on even entering CS, and so entered based on the fact that I would pay the regular U of T tuition. However, I discovered in my first year that CS was my true passion - only to find out that my tuition fees would nearly double as a result of switching to it. This caused me to seriously doubt my decision to switch despite knowing it was what I really wanted to do. I ended up still going into CS in the end because I knew it would kill me to have to sit by and do something else while my true path that I wanted to follow lay inches away, but it's caused a large financial burden for me, and so I've been quite stressed recently especially given the current economy that I have to be able to find a well paying internship for essentially every year to be able to graduate without an outrageous amount of debt at the end of my degree. I'm worried about having to maintain my mental health through all this among all other stressors that come with online school, so I truly hope that this part of the CS program can be changed."*

- *"I am uncertain about my ability to continue in the program because of the high tuition, and it's difficult to plan for the future when I don't know if I can afford it. The added pressure of working full time while studying part time causes a lot of stress. "*

- *"I only study part time because I can't afford full time tuition, while continuing to work in a field which I'm not interested in. Because of this, it's also hard to work on any side projects because I'm working most of the time. (I can't get OSAP as I already have an old outstanding loan that went into phase 2 of repayment assistance - I'm currently doing a second degree. There are a lot of programs available for students who can't afford tuition, but most of them aren't available to me because I'm not eligible for OSAP.) I think it's assumed that a lot of students live rent-free during the pandemic, but as an older student I have to pay rent as well. Due to these financial pressures, I most likely have to delay my studies. "*

- *"The first thing that came to mind when COVID quarantine started was how many shifts I could manage to get now that the mall where I work at is on lockdown. As we were and currently are only accepting delivery orders, less personnel are needed in store and thus less and shorter shifts. I've been stressing about how my paychecks have been smaller than my spendings as now I only manage to get 1-2 days of 4 hour shifts a week. I'm starting to worry that I'm now dipping into the money that I had saved up since I started my part-time job in First year, making it harder to pay off my debt when I graduate. I've also never dropped a course despite how much I hated it and how badly I was doing as I do not want to be in school any longer than I need to (more time in school = more debt)"*

- "It's basically every average kid's situation, the dilemma of not wasting the money and risking our GPA to stay in a course without knowing the grades which are always released after the last day to drop classes, or choosing to save the GPA but suffering from the loss $$$"

- "I frequently question myself if the program is worth the fees and if I make the right choice to be in the program"

- "Computer Science students have to pay a lot higher than other degrees, and the degree is extremely expensive for international students. To top it off, I feel like studying in India, so far away from UofT, definitely feels like I am "wasting" money on tuition fees. I have to study all by myself and there is very little scope for experimentation. The high fees pressurises me to study and do well and has definitely taken a toll on my mental health. I do not get to enjoy what I'm studying. Studying CS right now is more of completing assignments instead of experimentation of interests. "

- ""I still have yet to apply for PoST however, the decision to pursue CS and Bioinformatics was a bit of a stretch at first. I originally intended on studying Engineering at another institution but due to other reasonings, including higher fees, I had to settle for Life Sciences at UofT. By all means, I was glad to hear about being able to do a BCB Specialist and CS major however, when I heard about the higher tuition fees, I had to sit with my parents as to whether this would be a realistic option financially wise. As someone who wants to pursue Biomedical Engineering in grad school, I wanted an advantage in my learning to get familiar with CS and the medical side of thing. However, these deregulated fees may hinder my option, however, it is still yet to be decided whether or not I will get in to the program. If I do, the extra tuition will be an extra burden.""

- "As a student who is interested in Bioinformatics and Computer Science, but not completely certain about future career paths, the higher tuition fees have made me feel more pressured to make a decision to graduate with the program or decide to switch out as soon as possible. I also feel more pressured to be "successful" after I graduate as the higher tuition fees suggest a higher standard for CS-related program graduates. "

- "I feel pressured and often lose interest in pursuing my dreams. I feel the burden of higher fees will greatly affect my future career and my mental health."

- "higher tuition fees have made me have to take extra shifts at work, which means less time to dedicate to school, and this greater stress."

- "Higher tuition fees is a constant reminder of the debt that I must repay, adding in more pressure to how I must perform in my courses."

- "I originally came to UofT for Rotman Commerce and decided to change my program of study after my first year. I knew I wanted to try to get into

CS but knew it would be competitive, so I went into general AS studying human/urban geography and geographic information systems as a backup in case 148 and 165 didn't pan out. In a way, they did as I finally received an invitation into the CS Major program in 2020 but that was after my 4th year at the University. What hit me hard and really reconsider whether I wanted to continue to pursue my interests was when I suddenly found out I had to pay $15k+ upfront in order to enroll in any courses at all due to "retroactive fees". An email response from the school told me that the idea behind these retroactive fees is to ensure that everyone who comes out with a CS degree is paying roughly the same amount. The idea sound ok to me, but why should I be paying over $10k a year for previous academic sessions where I was just in general arts and science studying geography? With this method and provided I finish my major with no other unforeseen circumstances, I absolutely will not have paid "roughly the same amount" as my peers. Ever since the day I casually opened ACORN in the summer and found out I owed $15k within a matter of days, I have found myself under significant pressure and stress regarding my financial status and academic performance. Even then, I acknowledge that I am of enough privilege to be able to cough up this sum of money with the help of my parents. I could only imagine how much more stressful and difficult this would be on those with less financial flexibility."

- *"I joined as a second degree student and at the time I was planning on quitting my full-time job so that I can focus on my studies. However, after finding out about the increased tuition fees for CS, I realized that I didn't have enough money saved to support myself and my family during my studies so I continued working full-time while also studying full-time for my first year. It was a nightmare. I don't think I've ever been more stressed in my whole life. But I managed to get through it and finally save enough to quit my job. I don't think it's fair for CS students to have this extra financial burden, and its associated mental health/social life/professional development challenges. I hope future CS students will have to pay the same tuition as other Arts Science students."*

- *"It affects my performance negatively, it puts apt of burden on my parents and me. It makes me consider other programs or even switching universities"*

- *"I was formerly in BCB specialist but dropped out due to higher fees and being financially pressured to be able to continue on in the program. I ended up dropping down to cs minor and mgy specialist which is regular tuition fees as a domestic student"*

- *"I've been plagued by indecision since deciding on the program. As a first year I haven't committed yet, so almost every other night I get anxious about my future finances, pull up the academic calendar, look at other programs - any other deregulated program - to see if I think I'd enjoy*

them instead, and I try to rewrite my schedule to take it instead. I've reviewed the options countless times, and I'm fully decided on CSC and BCB rationally, but I still feel anxious about it and feel pressured to find another option."

- *"There is a certain amount of pressure that comes along with having higher tuition. Having to pick jobs on the prospect of salary instead of interest is a hard internal conflict I have to struggle with which affects my mental health. "*

- *"My family, we paid an extremely high tuition fees, send me to study in Canada. If I did not get into computer science program, or I graduate with a poor GPA, and could not find a decent job or get into graduate school. it wastes the intention of coming here. It wastes my parents money. "*

- *"The higher tuition has made me focus on joining the industry as a software engineer, through summer internships and PEY. This is not optimal for me because my long term goals do not lie in the industry, as I would like to focus on research and take classes over the summer."*

C   Quotes on Financial/Family Pressure

- *"Constant pressure to make up for the higher tuition fees by finding a part-time job or compete for a summer internship."*

- *"Did not account for higher fees for computer science because I expected to have the same fees as everyone else. Now I have to cut down on expenses as I don't have enough money to pay for my fourth year. Might have to take a gap year and earn money for my fourth year."*

- *"I feel pressured to end my studies fast and when I don't i feel like i'm adding to family debt and it doesn't feel nice to be wasting 46000 dollars for university. "*

- *"Having to pay for higher tuition fee means having to do part time jobs and it affects my studying and being unable to extracurricular stuff is not nice."*

- *"I currently have to balance a part time job with my full time studies, which has put quite a strain on me mentally and physically. This would have been even worse had I not saved money on residence this year due to the current global situation."*

- *"It feels like failure is even worse when there is 60k dollars on the line each year. I feel as if taking another year is not even reasonable with the financial strain it causes on my family. I could never force my family to suffer just to make school easier for me, so I have to deal with a full load of classes each year no matter the strain on my sanity."*

- *""Because of the higher tuition fees, I put a higher priority on financial compensation when considering internships. This means that the workplace environment becomes a less important factor, and I'm inclined to accept a position even if the company has a known reputation for unethical practices (ex. frequent unpaid overtime). I also feel guilty if I spend a lot of time on things other than studying, because I feel like I'm not ""making the most"" of my very expensive degree. This negatively affects my social life, and thus also my mental health.""*

- *"I have to work a part time job, as well as full time to pay for my tuition. My summer's recently have been filled with working 40-80 a week to pay my tuition, I am paying for everything myself as a student. There is a lot of stress that comes from not having time to relax and to focus on money. I am also on student loans and that is always on the back of my mind. I just wish I had more time, I know there have been plenty of times where my job had conflicted with my lecture times, and time related to working on group projects and assignments."*

- *"The tuition fee has definitely affected my family's financial situation. "*

- "Additional financial stress and the mental burden of how much I owe in student loans"

- "I have an extreme amount of anxiety about not being able to find a well paying job with my degree"

- "There is an added pressure to get a job with competitive salaries in the future (which is what the higher fees insinuates). This dry internship season has made things worse, where I'm questioning my self worth and future ability to get a job with a high paying salary right out of college."

- "As an international student, my parents are only allowed to transfer me a curtain amount each year, where there are barely enough left only for my rent after tuition. I have always struggled between school work and part time job so that I don't have to ask my parents for money. Also CS always has such heavy workloads that my schedule is never easy. The high tuition has also made me give up on applying for Masters, because I don't want my parents to pour so much money on me."

- ""Firstly, as an international student, the fees I have to pay is eve higher than normal. I was only able to study this year as I received a scholarship, so I need a job to ensure that I can pay my living expenses and educational expenses such as a laptop as well. Furthermore, as I'm in the computer science stream the work is very stressful in order to get a high grade so that I can enter POSt, and so this doesn't give me enough time to find a job, which makes balancing expenses difficult. Secondly, with the extra pressure to get good grades to enter POSt, I have virtually no time to socialize or participate in extracurricular activities or professional development, as I only study and sleep mostly.""

- "With every course I do poorly in, I need to evaluate whether I let it tank my GPA or if I can afford the extra thousands of dollars to retake it as an international student. My family is lower middle class, so every course I retake means less they have for retirement or less my siblings have for their future scholarship."

- ""There is significant financial pressure to do well, as an international student I need to pay a ridiculous $5k to retake a course if I fail. Failing four courses would put me on a new full course load of $35k or so which is insane. That's two entire years of domestic tuition for four courses. When Canadian families struggle with even that, there is no chance of success for immigrants. The further pressure to do well means a large sacrifice in anything except for schoolwork which stunts growth and leaves students at UofT less competitive than their peers who can pursue more projects, attend more hackathons, and pursue outside research, all to bolster their resumes and CVs.""

- "Financial pressure is a big one. Applying for jobs / part time work takes time away from studying. "

- "My brother and I are both studying CS, and my parents are paying for the tuition. They have a lot of pressure."

- "I definitely have more stress knowing how much more I will have to pay for university, especially since OSAP no longer covers all of my university fees like it did in my first year."

- "There's constant pressure to figure out how to pay my tuition fees. Normally I would take summer school, but now every summer I need to scramble for jobs. This is also why I am considering PEY - I really don't want to lose an academic year but $13,000/year needs to be paid somehow. "

- ""They have worsened my financial position and forced me to take regular part time employment during the school year (negatively impacting my grades) and seek internships/other jobs during the summer. Even now I am not sure how I'll pay next year's tuition, so financial issues are a constant lingering presence. The fact is, my parents won't pay for my tuition (partly because they can't afford it) - this is not reflected on OSAP forms bc I 'live at home' so the financial burden is entirely on me."

- "I am an international student and I already pay higher fees than domestic students. The higher fee for computer science students gives me more pressure to me and my family and I have to save money on other aspects of life(grocery, clothing) for tuition fees."

- "My parents pay nearly 60,000 CAD every year for my tuition. So I have been really crazy about my grades."

- "It makes me wonder how I can afford living in Toronto, because the tuition fee is higher and the living cost (inside of City of Toronto or nearby cities) is so expensive. It also depresses me often."

- "Higher tuition fees has significantly reduced spending in our family as we try to save as much as possible to make ends meet and reduce the amount in debt."

- "The exorbitantly high tuition fees have put financial stress on my family which has been reflected in my mental health. The stress of my family not being able to make ends meet directly because of my tuition payments has seriously negatively impacted my mental health and I find myself seeking help often because of it."

- "As an international student at UofT, it is hard to get financial support unless the family is having severe financial difficulty. It is not that I cannot afford the tuition, but rather I am pressured to get a job to reduce the burden on my family. With that pressure and my will to gain experience to be independent, I worked for a part-time job for this semester, and this caused me to struggle a lot mentally throughout the semester. Being registered as a computer science student is the same as being registered

as any other student in Arts and Science. Having the same fees as other programs will immensely help numerous students who are pursuing this field by not giving them the guiltiness and pressure of being a computer science student."

- *"It has made me nervous and anxious about living with debt and concerned about paying it off. As a result of this worry, I am very stingy with my money and am anxious about buying anything from essentials like food to small things for myself. I put a lot of pressure on myself to save as much money as possible."*

- *"The higher tuition fees have made taking a year for PEY necessary to help reduce my debt coming out of university. While I am enjoying the PEY experience, I now have to graduate a year after most of my peers have left campus. Also, graduating a year sooner would've allowed me to get a full-time full-salary job a year sooner as opposed to having an intern salary, but I need the money now to limit the amount of debt I'll have when graduating. The cost of tuition has also been a contributing factor to my struggles with anxiety, as the pressure of having debt has made me anxious about spending money and made me very stingy about buying anything, including essentials. I got to the point in second year where I tried to minimize my spending on food to save more money, and I wasn't feeding myself enough."*

- *"Higher tuition fees deteriorate my mental health because I HAVE to get an internship to pay them. Once I get an internship, I can afford to pay the fees, but then I'm left with nothing. A year's worth of hard work just gone."*

- *""Higher financial fees while coming from a low income household is nerve wracking. There is a huge amount of pressure to succeed to begin with and the stress from high fees does not help at all. It is ridiculous that we pay such high fees for no discernible reason. It makes me wonder if the value of my degree is justified. I hate seeing students from other decent universities graduate from low-fee CS programs and still getting good jobs. Computer Science students don't even have our own designated building/specialized spaces. We have a couple of measly floors in Bahen that we share with engineers and other departments and that's about it. The price we pay for a Computer Science degree does not match the value provided by the University.""*

- *"Added stress to my life because I was paying 60k+ to get into a very competitive field and get grades the justify the money being spent on my degree"*

- *"Added financial pressure especially during the pandemic when everything is so uncertain and unpredictable "*

34

- "I am an international student, on top of that the extra fee is like robbing us blind. The burden is more on my parents and seeing them spend this much, makes me neglect my study and opt for part time jobs. "

- "The financial pressure increased a lot on my parents and stress too. "

- "The higher tuition fees put a lot of pressure on me to get a job, and it's been very tough to get a job in my field (computer science). I still haven't gotten an internship this summer and I feel very pressured to do so because I do not want to put a financial burden on my family. Overall, my mental health has been very negatively affected because of this. If I am unable to find an internship in my field, I may be forced to take a demeaning part time retail or fast food job, which also increases the risk of me getting COVID-19."

- "I earned a scholarship to U of T which would normally pay for a year of study, but for bioinformatics it's one semester instead. I continually feel pressured to find more sources of income, scholarships, or other money to try to pay for tuition, and since December I've been constantly scouring job sites looking for a summer position - which has been a drain on my energy, academics, and well-being. Instead of relaxing the summer before first year began, I worked to prepare myself for the equivalent of the four extra years of tuition I expect to pay. Even when I earn money, it feels half-successful as I think how much further it could have gone to a normal tuition. "

- "Financials contributed to my moderate to severe depression in 2nd and 3rd year"

- "With the higher tuition I felt an overwhelming pressure of finding a high paying job after graduation and felt that a lot more was expected from me compared to my friends in other programs. I already felt that my program (Computer Science) was competitive enough and the higher tuition was another burden on top of that."

- "It was hard for me to focus on my courses and do well because I had this looming thought of having to pay back the loans for my higher tuition after graduation. I was scared to talk about my fears with my friends in other programs because they assumed that because I had higher tuition I would be guaranteed a high paying job right out of school. My courses, especially 1st year POSt, was/are mentally draining and having to think about the loans on my higher tuition without a clear indication of my future often sends me into deep spirals of depression and anxiety. I don't like the notion that because of my program and the fact that I pay higher fees means that I for sure will graduate into a high paying job. It makes me nervous of the fact that I may not live up to this expectation and it's hard to talk about it socially because everyone has that expectation of you."

- *"The higher tuition has definitely affected me. After calculating estimated tuition for next year, I was surprised at how expensive it was despite graduating with the same degree. To be honest, having a "probability" to be hired as a computer scientist job (which is higher paying) does not validate at all the reasons why we are paying higher fees. "*

- *"Higher tuition fees make me so depressed."*

- *"Financial pressure stresses me out and prevents me from focusing on study."*

- *"I have large tuition that puts me at a disadvantage to my Ontario peers. Ontario OSAP doesn't even recognize deregulated fees programs, which means only the federal gov helps with additional loans, etc. Every summer instead of let's say taking summer school I need to hound for random jobs to be able to pay next year's tuition. In 2nd years OSAP didn't get the message and only gave me like $6000 including loans; this year it's a bit better but still - a bit strain. "*

- *"The added pressure has forced me to work beyond my limits, having to work 2 part-time jobs while taking full course load is not only mentally straining but physically painful at times."*

- *"It puts a strain on me and my family mentally and i feel pressured to not waste my families money as well as pressure to earn money to pay for my high fees. So i would say it affects me heavily."*

- *"So to fulfill my degree and pay the tuition, I have to find part-time job in my spare time, I feel sorry to my parents that they have to help me to pay my tuition which is quite a large amount of money. Honestly, when I first got my uoft offer, I was thinking not taking it, cause it will be a lot fincial pressure to my parents, but they still convince me to take it, because they want me to receive better education."*

- *"I feel incredibly guilty for having to cost my parents so much. Out of fear of going into debt, I have been too afraid to spend any of my money on myself at all. Finances are the first thing that cross my mind whenever I consider doing anything. I have been incredibly stressed and anxious and tried to focus on my studies above all so that I can maybe get an award. "*

- *"I have been on the lookout for any job to take to be able to afford my tuition. I have been forced to be cautious with my money, to the point I had a mental breakdown before deciding to buy myself a desk chair. "*

B   Change.org Petition and Signatures

See following page.

Petition: #SameDegreeSameFee – Tuition Equity for Computer Science & Bioinformatics at UofT

Computer Science, Bioinformatics, and Data Science students at the University of Toronto currently pay $11,420 in tuition fees (domestic students), which is 87% higher than the $6,100 domestic tuition rate charged in general for degrees in the Faculty of Arts and Science. International students also pay thousands of dollars more in Computer Science, Bioinformatics, and Data Science as compared to all other science programs in the Faculty of Arts and Science.

Despite the fact that these programs are part of the Faculty of Arts and Science, and despite the fact that these students still earn a regular Honours Bachelor in Science degree, Computer Science students are made to pay this higher fee.

This higher tuition makes a degree in Computer Science less accessible, and access to it less equitable. It acts as a systemic barrier that prevents marginalized students from entering this field. It increases the financial and emotional pressure on Computer Science students to compete for grades and high-paying internships, just to be able to afford their degree; this has contributed to a mental health crisis in our department.

We believe that Computer Science students should be treated the same way as all other students in our faculty, the Faculty of Arts and Science, and charged the same fees for what is at the end of the day the same degree (a HBsc).

There's a common misconception that these programs are "deregulated" programs – this is not true. Computer Science, Bioinformatics, and Data Science have been regulated by the provincial government for over 15 years. Some Ontario Universities, like the University of Western Ontario, charge Computer Science students the same tuition fees as all other science programs.

It's up to the University of Toronto Administration and Governing Council to change their policy.

We're asking the University of Toronto Administration and Governing Council to make tuition for students in Computer Science, Bioinformatics, and Data Science more equitable – to charge these students the same fees as our peers in other science programs.

Name	City	Signed On
Aakash Vaithyanathan	Kuwait	2021-01-27
Aamishi Avarsekar	Mumbai	2020-12-15
Aaron Vidican	South Woodslee	2020-12-15
Aarushi Avarsekar	Mumbai	2021-01-13
abdus shaikh	Mississauga	2020-12-25
Abenav Vijayakumaran	Toronto	2020-12-15
Abhi Kapoor	Toronto	2020-12-15

Abida R	Scarborough	2020-12-15
Abishek Arul	Dubai	2021-01-04
addison tomes	winnipeg	2020-12-15
Agnes Fosu	London	2020-12-15
Agray Upreti	Dar Es Salaam	2021-02-03
Aidan Ryan	Burlington	2020-12-15
Akayla Fleming sims	Gatineau	2020-12-15
Akshat Naik	Kuwait	2020-12-15
Aleah Suplico	Montréal	2020-12-15
Alex Dang	Burnaby	2021-01-03
Alex Edraki	Aurora	2021-01-27
Alex Erickson	Toronto	2021-02-09
Alex Kozin	Toronto	2020-12-14
Alex T	Mississauga	2020-12-14
Alexander Chia	Toronto	2020-12-15
Alexander Gallagher	Halifax	2021-02-02
Alexandra Kurtesi	Toronto	2021-01-29
Alexia Monize	Toronto	2020-12-14
Ali Al Rawaf	Scarborough	2020-12-14
Ali Syed	Milton	2021-02-16
Alyssa Young	Port-of-spain	2020-12-14
Alyssa Young	Port-of-spain	2021-01-30
Aman Rana	Toronto	2021-01-26
Amapola Deren	Toronto	2020-12-15
Amar Dholakia	Toronto	2021-01-05
amirah b	Vancouver	2020-12-15
Ammar Tariq	Scarborough	2020-12-14
Amy Peng	Bedford	2020-12-14
Anatoly Zavyalov	Toronto	2021-01-02
Andrew Hong	Toronto	2021-01-12
Angela Rasmussen-Berrington	Winnipeg	2020-12-15
Angelina Licea Martinez	Whitecourt	2021-01-20
Angie Lo	Toronto	2020-12-17
Angus Lee	Taoyuan	2020-12-20
Anjali Parikh	Toronto	2020-12-14
anna kim	Mississauga	2020-12-31
Anna Kiseleva	North York	2021-01-21
Anna Lai	Toronto	2020-12-26
Annie Liu	Sherborn	2021-01-07
Anshul Agrawal	Mumbai	2020-12-14
Arianne Beauregard	Singapore	2020-12-14
Arie Moyal	Montreal	2020-12-25
Arkaprava Choudhury	Navi Mumbai	2021-01-05
Arman Akhmetov	Toronto	2020-12-14
Arshdeep Bhattal	Brampton	2021-02-07
Arshdeep Kaur	Brampton	2021-01-31

Arshdeep Kaur	Regina	2021-02-07
Arshee Eunus	Mississauga	2021-02-15
Ashley Lu	Brampton	2021-01-02
Audrey Lee	Ottawa	2020-12-15
Ausha Kang	Richmond	2020-12-15
Basmah Ramadan	Toronto	2021-01-30
betty winholtz	morro bay	2020-12-15
Binseong Kim	Chilliwack	2020-12-14
Bob Ng	Shah Alam	2021-01-25
Bob Smith	Mississauga	2020-12-14
Brandon Nord	North Battleford	2020-12-15
Brooke A.	Calgary	2020-12-15
Brooklyn Jarvis	Moncton	2020-12-15
Caitlin S	Toronto	2021-01-20
Callan Murphy	Kingston	2020-12-14
Callum Sharrock	North Vancouver	2020-12-14
Callum Sharrock	Toronto	2021-01-26
Calvin Yuen	Toronto	2020-12-20
Casey Hon	Markham	2021-01-03
Celina C		2021-01-21
Charlotte Naudie	Hamilton	2020-12-15
Chaudhry Hamza Rehman	Lahore	2020-12-14
Chloe Huang	Central District	2021-01-02
Chloe Nguyen	Toronto	2021-03-16
Chloe Pearson	Toronto	2021-02-26
Chris Hwang	Richmond Hill	2020-12-15
Christian Phillips	Toronto	2021-01-03
Christina Dinh	Scarborough	2021-02-02
Christina L	Edmonton	2020-12-20
Cindy Fang	SCARBOROUGH	2021-01-05
Cindy Girard	Vernon	2020-12-15
Cindy Z.	Houston	2020-12-15
Colin De Vlieghere	Bryn Mawr	2020-12-15
Colin Imaizumi-Rankin	Coquitlam	2020-12-14
Connor Burns	Toronto	2020-12-14
Constantina Zorbss	Toronto	2020-12-15
Cordelia Min	Windsor	2020-12-15
Courtyard Siu	Toronto	2020-12-15
Cuban Gaming1	Milton	2020-12-15
Dammeet Singh	Brampton	2020-12-27
Danial Motlagh haghnegahdar	Aurora	2021-01-04
Daniel Heydari	Toronto	2020-12-14
Daniel Hu	Kitchener	2021-02-20
Daniel Lazaro	Toronto	2020-12-14
Daniel Visca	Toronto	2020-12-14
Daniella Altobelli	Toronto	2020-12-15

Danika Daguerre	Vaudreuil	2020-12-16
Daria Chekhovskaya	Neepawa	2020-12-15
Daria Ja	Barrie	2021-01-05
david petriw	Welland	2021-02-13
David Tsukernik	Vaughan	2021-01-02
Debasmita Bhattacharya	Guelph	2020-12-14
Debbie Wheeler	Darlington	2020-12-22
Denny G	Toronto	2021-02-03
Denny Wiseman	Toronto	2020-12-15
Desta Kassa	Edmonton	2020-12-26
Devina Misir	Etobicoke	2020-12-15
Devonyae Mitchell	Orangeville	2020-12-15
Dhruv Hari	Markham	2021-01-06
Dhruvaa Saravanan	London	2020-12-14
Dhruvaa Saravanan	Worcester Park	2021-01-02
Diadem Shoukralla	Toronto	2020-12-15
Dickson Li	Toronto	2020-12-15
Dilmeet Singh		2021-02-02
Divya Gupta	Delhi	2020-12-14
Divya Gupta	Faridabad	2020-12-29
Divya Verma	Surrey	2020-12-15
Dominic Casillano	Etobicoke	2020-12-31
Dominik Wrona	Mississauga	2020-12-21
Do-oh Moon	Richmond Hill	2020-12-15
Eevee Caldwelle	Newmarket	2020-12-25
Ekagra Luthra	Brampton	2020-12-14
Elaine Lee	Toronto	2021-01-29
Eleanor Zhou	Toronto	2020-12-14
Elizabeth Li	Ottawa	2020-12-14
Elli Hung	Naperville	2021-02-09
Ellison McCarthy	Oakville	2020-12-17
Eloise Valasek	Toronto	2020-12-14
Emily Ayala	Ottawa	2021-01-06
Emily Chang	Toronto	2020-12-15
Emily Riley	Bowmanville	2020-12-27
Emily So	Woodlawn	2020-12-14
Emma Gregg	Weyburn	2021-01-29
Emma Price	Victoria	2020-12-15
emma seabrook	Markham	2021-01-04
Emmanuelle J-v	Montréal	2021-01-18
Enam Hermon	Kitchener	2020-12-31
Enid Xiong	Surrey	2021-02-10
Eric Hasegawa	No Thanks	2020-12-14
Eric K	Toronto	2020-12-14
eric zhu	Needham	2020-12-14
Erica Shi	Richmond Hill	2021-01-03

Erin Chung	Bolton	2020-12-15
Eriyeza Buwembo	Regina Beach	2020-12-15
Eshaal Qaisar	Ottawa	2020-12-15
Eswar Grandhi	Hyderabad	2020-12-14
Euan Pound	Toronto	2021-01-13
Eugenia Yi	South Windsor	2021-01-05
eunice domingo	Saskatoon	2020-12-14
Evan Kanter	Toronto	2020-12-14
Evgeniya Gorobets	Chevy Chase	2021-01-07
Fab Aguir	New york	2020-12-15
Faizah Sayyid	Scarborough	2020-12-15
Fariha Tasnim	Singapore	2021-01-07
Farzana Hotay	Oakville	2021-01-02
Fatimah Jada	Bridgetown	2020-12-25
fatimeh hassan	Pickering	2020-12-14
Feifei Li	Toronto	2020-12-15
Felix Liu	Toronto	2020-12-31
Fenil Patel	Garson	2021-01-03
Fiona Mccrow	Havelock	2020-12-31
Foti Vito	Toronto	2020-12-14
Franco Mo	Toronto	2020-12-14
Frank Chou	Vancouver	2020-12-14
Gabe Guralnick	Milwaukee	2021-01-25
Gary Thaler	Boston	2020-12-15
Genevieve Beauregard	Singapore	2020-12-14
Georgia Bains	Toronto	2021-01-04
GLEN MARCO Jeremy	Jakarta	2020-12-15
Grace H	Coquitlam	2020-12-14
Grace Leung	Toronto	2021-01-19
Gurjiwan Singh	Surrey	2021-02-03
Haile Cornwall	Oakville	2021-01-03
Haleema Ghauri	Mississauga	2020-12-14
Hana Fahim	Toronto	2021-02-13
Hanhan Nguyen	Burnaby	2021-01-02
Hannah Crilly	Whitby	2020-12-15
Hannah Perocho	Mississauga	2021-02-03
Hannah Tekle	Birmingham	2020-12-17
Harbaksh Singh	Brampton	2020-12-14
Harnaindeep Kaur	Brampton	2020-12-15
Harpreet Gill	Surrey	2020-12-30
Harris Mian	Ajax	2020-12-27
Harwinder Sandhu	Surrey	2021-02-07
Hayden Wolff	Richmond Hill	2021-03-20
Hedieh Hashem	Kitchener	2021-01-06
Helen Jiang	Toronto	2020-12-16
Helen Su	Toronto	2020-12-14

Helena Jovic	Toronto	2021-02-15
Henning Lindig	Thornhill	2020-12-14
Henrey Whittaker	Toronto	2021-01-25
Henry Tu	Windsor	2020-12-26
Henry Zaccak	Aurora	2020-12-14
Hildana Endrias	Toronto	2020-12-15
Hisbaan Noorani	Toronto	2020-12-15
Hoang Dang	Toronto	2020-12-19
Hongshou Ge	Central District	2020-12-19
Hubert Hu	Halifax	2021-01-02
Humna Naz	Mississauga	2020-12-15
Hunsoo Kim	Hamilton	2020-12-15
i. meszaros	Victoria	2021-01-11
Ibrahim Farooq	Scarborough	2020-12-14
Ikechukwu Maduike	Winnipeg	2020-12-14
iris chan	Markham	2021-01-30
Isaiah Hazelwood	Calgary	2021-01-03
Ishan Sharma	Jaipur	2021-01-11
Ismael Ghanim	Mississauga	2020-12-18
Issam Arabi	Doha	2020-12-23
Iz Leitch	Toronto	2021-01-06
J S	Toronto	2020-12-17
jack tian	Scarborough	2020-12-14
Jackie Millar	Thornhill	2020-12-15
Jacky Lai	Toronto	2020-12-14
Jacob Sahlmueller	Emerald Park	2020-12-14
Jacy Newfeld	Toronto	2021-01-04
Jagdeep Kaur	Brampton	2020-12-28
Jai Aggarwal	Toronto	2021-01-08
James Yoo	Toronto	2020-12-21
Jamie Packer	Simcoe	2020-12-15
Janet w	Ottawa	2020-12-14
Janice Pereira	Toronto	2020-12-14
Jasmina Brar	Kitchener	2020-12-15
Jason Li	Calgary	2020-12-15
Jean Chagnon	Montréal	2020-12-15
Jeannie Yoo	Seoul	2020-12-22
Jedwin Mok	Cupertino	2020-12-19
Jennifer Cao	Vaughan	2020-12-15
Jenny Zhang	Toronto	2021-01-06
Jerome Labelle	Toronto	2021-01-06
Jessica Batta	Toronto	2020-12-14
Jessica Prentice	Oakville	2021-02-02
Jessica Wang	Cambridge	2021-01-02
Jessica zhang	markham	2020-12-14
Jey Kumarasamy	Toronto	2021-01-04

Jia Hao Choo	Batu Uban	2020-12-14
Jiabao Leung	Markham	2021-01-04
Jian Huang Xue	Thornhill	2020-12-15
JiaQi Zhao	Toronto	2020-12-14
Jiayang Sun	Bejing	2021-01-25
Jinsoo Choi	Daejeon	2020-12-14
Jiwoo Kim	Calgary	2020-12-15
Joanne Pan	Toronto	2021-01-08
Joey Hotz	Thunder Bay	2021-01-06
John Cui	Aurora	2021-01-30
John Doe		2020-12-14
Jonathan Webb	New York	2021-01-02
Jonathan Zak	Toronto	2020-12-15
Joshua Daley	Toronto	2021-02-13
Josiah Friesen	Ottawa	2020-12-14
Julien Bertazzo Lambert	Toronto	2021-01-27
Justin Sadakhom	Toronto	2020-12-16
Justin Zheng	Vancouver	2021-01-06
Kairen Chen	Barrie	2021-01-06
Kaloyan Krastnikov	Sofia	2020-12-15
Kara Han	Toronto	2021-01-05
Karyn Komatsu	Vancouver	2021-01-25
Katherine Luo		2020-12-14
Kathleen Hom	Markham	2021-01-30
Kathlyn Franzin	Stouffville	2020-12-15
Kathryn Tse	Toronto	2020-12-15
Katy Suluk	Arviat	2021-01-23
Keena Shang	Toronto	2020-12-14
Kellsy Ann	Toronto	2020-12-15
Kelly Crawford	Mississauga	2020-12-20
Kendra Tamar	East York	2020-12-15
Kerry Zhu	Abbotsford	2020-12-16
Kevin Lu	Toronto	2020-12-14
Kevin Vaidyan	Toronto	2021-03-09
Khadijah Ghauri	Mississauga	2020-12-14
Kieu Dat	Ho Chi Minh City	2021-01-02
Kim Taemin	Yeongdeungpo	2020-12-15
Komal Saini		2020-12-14
Konstantinos Papaspyridis	Athens	2020-12-14
Kristin Huang	Burnaby	2020-12-31
Kyan Haldenby	Toronto	2020-12-15
Kyra Stephen	Kingston	2021-01-05
L A	Brampton	2020-12-14
L C	Toronto	2021-01-25
Labib Chowdhury	Toronto	2020-12-14
Lalit Lal	Brampton	2020-12-31

Laura Lu	Burnaby	2020-12-14
Laura Maldonado	Mississauga	2020-12-14
Laura Peberdy	Toronto	2021-02-03
Lauren harper	Kingston	2020-12-15
Layomi Onafusi	London	2021-03-01
Leandro Rizk	Montreal	2021-01-20
Leila Ranger	Bois-des-filion	2020-12-15
Leilah Pozo	Marrero	2020-12-15
Leo Desruelle	Toronto	2021-01-30
Leslie Mutoni	Bridgetown	2021-01-04
Lev McKinney	Vancouver	2021-01-25
Li Quan Soh	Toronto	2021-01-27
Lia Rivera	Surrey	2021-01-02
Liam Ogilvie	Fergus	2020-12-14
Lillia Mardi	Calgary	2020-12-18
Lilly Sweet	Williams Lake	2021-01-09
Lily Yu	Toronto	2021-01-09
lior vanessa	Thornhill	2020-12-15
Lizzy West-Derpack	Edmonton	2020-12-17
Lorena B	Oakville	2021-01-01
Lori Schaff	Calgary	2020-12-24
Luca Baiocchi	Newmarket	2020-12-15
Lucas Prates	Newmarket	2020-12-15
Lucy Zhang	Mississauga	2021-01-25
Lyndo Lashley	Douglas	2020-12-14
Marc F		2020-12-28
Madeline Wang	Mississauga	2020-12-14
Maggie Chen	Vancouver	2021-01-03
Maggie Yang	Markham	2021-02-13
Mahak Khurmi	Delhi	2020-12-14
Mahathi Gandhamaneni	Toronto	2021-03-01
mahdi zamani	Scarborough	2021-01-28
Majda Lojpur	Toronto	2021-01-04
Manav Patel	Pickering	2020-12-14
Manav Shah	Mumbai	2021-01-05
Mandy Wang	Toronto	2021-01-19
Maria Daniela Quintero	Calgary	2021-01-28
Maria Hutt	Toronto	2020-12-14
Maria Vidal Valdespino	Toronto	2021-03-01
Marian Wang	Ucluelet	2021-01-13
Marina M	Ottawa	2020-12-14
mart cheaper	Central District	2020-12-16
Marta Anielska	Oakville	2021-01-05
Maryam Hasanzadehkiabi	Toronto	2021-01-05
Maryam Pennino	Brampton	2021-02-11
Marylou Trudeau	Joliette	2020-12-18

Matthew Spanier	Saskatoon	2020-12-15
Maya Martin-Spisak	Toronto	2021-01-02
Mazher Abbas	Toronto	2020-12-28
Mehraein Roointan	Toronto	2021-02-22
Melanie Seabrook	Thornhill	2021-01-04
Melissa Berkane	Alger	2020-12-14
Mia Kh	Mississauga	2020-12-15
Michael Minzak	Toronto	2021-01-03
Michael Scofield	Toronto	2020-12-14
Michal Davis	Toronto	2021-02-13
Michelle Polonsky	Montréal	2021-02-03
Miguel Weerasinghe	Toronto	2021-01-25
Milah Ranjan	Toronto	2021-01-01
Ming Yang Xu	Toronto	2020-12-15
Minyi Ma	Palmerston	2021-01-04
molly grace	Vancouver	2020-12-15
Monica Iqbal	Toronto	2020-12-14
Moohaeng Sohn	Ottawa	2020-12-16
mozammil khan	toronto	2021-01-07
Muhammad Abdurrahman	Karachi	2020-12-15
Muhammad Sohaib Saqib	Karachi	2020-12-14
Murray Smith	Toronto	2020-12-14
Naena Drazman	Toronto	2020-12-14
Naina Singh	Toronto	2021-01-05
Nakita Gopal	Toronto	2020-12-14
Nancy Li	Toronto	2021-01-24
Nasiruddin Ahmed	Caledon	2020-12-28
Naslin Rahman	Toronto	2021-01-12
Nat A	Thornhill	2020-12-14
Natasha Bouchard	Winnipeg	2020-12-29
Nathan DeGoey	Toronto	2020-12-14
Nathan Diena	Toronto	2021-01-20
Nathanael Chwojko-Srawley	Keswick	2020-12-15
Navjot Garcha	Toronto	2021-01-24
Nazar Georgis-Yap	Toronto	2021-01-11
Neha Sultana	Toronto	2021-02-09
Nehchal Kalsi	New Glasgow	2021-01-04
Neil Lobo	Mississauga	2021-01-24
Ng Bob Shoaun	Ipoh	2020-12-15
Nguyen Duy	Singapore	2021-01-02
Nguyen-Trinh An	Toronto	2021-01-07
Nicholas Leunissen	Toronto	2021-02-10
Nicholas Perrin	Toronto	2020-12-14
Nicole Tran	Toronto	2021-02-13
Nishanth Selvarajah	Toronto	2020-12-15
Nitin Mahtani	Bridgetown	2021-01-25

Noah Goldstein	Millwood	2020-12-14
Ogonna Nwasike	Vancouver	2020-12-18
Oliver Daniel	Toronto	2021-01-03
Oliver Phan	Aurora	2020-12-14
Olubukola Kolawole	Toronto	2020-12-22
Omar Shalash	Ottawa	2020-12-14
Omri Daniel	Richmond Hill	2020-12-14
Osama Hafez	Mississauga	2020-12-15
Oscar Baracos	Toronto	2020-12-14
Owen LeVasseur	Lake Echo	2020-12-15
Paddy Greene	Ottawa	2020-12-14
Parinita Edke	Mississauga	2020-12-14
Parth Patel	Guelph	2020-12-14
Parvinder Singh	Brampton	2020-12-20
Patrick Markowski	Windsor	2020-12-16
Patrick V	Toronto	2020-12-14
Patrick Vuscan	Toronto	2020-12-31
Paul Blackburn	Elizabethtown	2020-12-15
Payton Midgley	Ridgeway	2021-03-01
Peter Benjamin	Battaramulla	2021-02-09
Peter Bilski	Maspeth	2020-12-31
Petra Fayad	Toronto	2020-12-17
Phyllis Cherng	Burnaby	2021-01-02
Pierre Sarrailh	Toronto	2021-01-26
Pip Scott	Kingston	2020-12-15
Prabhdeep Nizer	Prince George	2021-02-06
Priyal Bhasin	Singapore	2021-01-30
Promiti Datta	Toronto	2020-12-14
Raazia Hashim	Aurora	2020-12-14
Rach Dahl-Bates	Victoria	2021-01-21
Rachel Kim	Kitchener	2020-12-14
Rachel Xie	Toronto	2021-02-17
Rachel Zeng	Oakville	2020-12-17
Rafee Rahman	Toronto	2021-01-04
Raiyaan Rahman	Oakville	2021-01-24
Raiyan Chowdhury	Toronto	2020-12-21
Rajvi Rana	Oakville	2021-01-03
Ramy Zhang	Toronto	2021-01-06
Re-Anna Chapman	Brampton	2020-12-15
Reazul Mozumdar	Toronto	2020-12-15
Rebecca Reszetnik	Parkhill	2020-12-15
Rebecca Tanner	Burbank	2020-12-15
Rebecca Westall	Toronto	2020-12-14
Renee Vettivelu	Toronto	2020-12-14
Rev G	Toronto	2021-03-13
rex Merc	Edmonton	2021-01-27

Rhiannon Lafond	Toronto	2020-12-15
Richard Balroop	Toronto	2021-01-25
Roger Lam	Toronto	2021-01-19
Rohan Hundal	Vancouver	2020-12-15
Rohit Bansal	Toronto	2020-12-14
Roland Gao	Vancouver	2020-12-14
Ron H	Toronto	2020-12-23
Rosanna Amorim	Toronto	2021-02-11
Roy Taguchi	Toronto	2020-12-15
Roya Shams		2020-12-14
Rubaina Farin	Toronto	2020-12-14
Ruiyu Wang	Taichung City	2021-01-26
Ruqayyah Alibhai	Richmond Hill	2021-01-19
Rutav Shah	Ottawa	2020-12-14
Ruth Dike	Winnipeg	2021-01-06
Ryan Ahmed	Toronto	2020-12-14
Ryan Chang	Toronto	2020-12-21
Ryan Goldberg	Toronto	2020-12-14
Ryan Wong	Toronto	2020-12-15
S B	Toronto	2020-12-15
Safa Hussein	Toronto	2021-01-25
Sai Vinay Varikooty	Toronto	2020-12-14
Salman Shahid	Meaford	2020-12-14
Salvador Cerna Neri	Toronto	2020-12-15
Salwa Abdalla	Toronto	2021-01-24
Sam Hui	Central District	2020-12-14
Sam Kwapisz	Toronto	2020-12-15
Sam Lakerdas-Gayle	Richmond Hill	2020-12-14
Samir Patel		2020-12-14
Samira Dang	Toronto	2020-12-31
samraj singh	Vancouver	2020-12-17
Samreet Kaur	Winnipeg	2021-02-07
samuel vedrik	Toronto	2020-12-16
sandy lubeck	Modesto	2020-12-15
Sara M	Toronto	2020-12-14
Sarah Deforest	Toronto	2021-01-19
Sarah Nauth	Oshawa	2021-01-03
sarah ovens	Vaughan	2020-12-17
sarrah merchant	Toronto	2020-12-14
Sathurthiekan Ramanan	Scarborough	2020-12-14
Saumya Pandya	Scarborough	2020-12-15
Sayan Faraz	Toronto	2020-12-14
Scarlett _	Toronto	2021-02-06
Sean Gong	Toronto	2021-01-06
Sebastian Clancy	Rancho Santa Margarita	2021-01-19

Sehajroop Bath	Toronto	2020-12-18
Seong Rachel	Busan	2020-12-22
Seren Robson	Abbotsford	2021-02-17
Sergio Betancourt	Toronto	2021-01-12
Sewit Tewelde	Scarborough	2021-01-03
Shae Sumalinog	Calgary	2020-12-15
Shan Ko	Seattle	2020-12-20
sharon yuen	Burnaby	2021-01-02
Sherman Liu	Hongkong	2020-12-14
Shirley Huang	Calgary	2021-01-04
Shivani Anand	Mississauga	2020-12-14
Sibongile Nyirenda	Belleville	2020-12-16
Simon Chen	Mississauga	2020-12-24
Sleimon Naimi	Barrie	2020-12-15
Soeui Oh	Suwon	2020-12-14
Sonata Katt	Toronto	2020-12-14
song park	Toronto	2020-12-15
Sonia Zaldana	Toronto	2020-12-15
Sooyeon Lee	Richmond Hill	2021-01-29
Sophia Elattal		2020-12-15
Sophie Nam	Richmond Hill	2020-12-14
Spencer Murray	Stoney Creek	2020-12-15
Srinath Dama	Bangalore	2021-02-11
Stanley Bryan Hua	Toronto	2021-01-06
Stephane Martin Demers	Mississauga	2021-01-25
Sun Kim	Markham	2020-12-15
Tales Scopinho	Sao Paulo	2020-12-14
Tameem Hassan	Scarborough	2020-12-16
Tariq Kharseh'	Toronto	2020-12-14
Tarra Nielsen	North Battleford	2020-12-15
Taylor Parker	North Battleford	2020-12-15
Teimoor Merzanazar	North York	2021-01-02
Terrence Amponsah	Langley	2020-12-14
Terry Christodoulou	Milton	2021-01-24
Tev B	Mississauga	2020-12-15
Thomas Howells	Toronto	2020-12-14
Tia Dayman	Toronto	2021-01-04
Tiago Ferreira	Newmarket	2020-12-14
Timothy Duong	Toronto	2021-02-02
Tina Zhang	Toronto	2020-12-15
Tingyu Liang	Markham	2021-01-24
Tobey Brizuela	Ajax	2021-01-31
Tong Guan	Toronto	2021-01-11
Tran Thai	Toronto	2021-01-12
Trevor Tsang	Calgary	2021-01-03
Tural Gulmammadov	Colorado Springs	2021-01-11

Tyler Deagle	Edmonton	2020-12-16
Tyler Riches	Toronto	2020-12-18
Umar Ahmed	Scarborough	2020-12-14
Umayrah Chonee	Toronto	2020-12-31
Utsav Shinghal	Singapore	2020-12-14
Uzair Chudhary	Edmonton	2021-01-04
V T	Monroe Township	2020-12-14
Vahin Abdullah	Calgary	2020-12-15
Vaibhav Holani	New Delhi	2020-12-15
Vaibhav Kaushal	Delta	2020-12-24
Valentina Palacio	Brampton	2021-01-05
Vedika Jha		2021-01-29
Vinayak Tuteja	Singapore	2020-12-14
Vincent Zvikaramba	Harare	2021-01-26
Vlad Caterov	Barrie	2020-12-14
Walee Abdallah	Edmonton	2020-12-15
Wayne McMahon	Toronto	2020-12-15
William Wang	Richmond Hill	2020-12-14
Willow Trainor	Toronto	2020-12-16
Willow Workman	Victoria	2020-12-15
Winnie Li	Toronto	2020-12-14
winnie pan	Shawinigan	2020-12-15
Won Jiyun	Wonju-si	2020-12-15
Xi Huang	Toronto	2021-01-02
Yen Wong		2021-01-27
Yi Fei Huang	Toronto	2020-12-15
Yifan Li	London	2021-02-10
Yigit Alp Elmas	Istanbul	2020-12-14
Yile Xie	Thornhill	2020-12-14
yohan remirez	Calgary	2020-12-15
Yosi Hatekar	Toronto	2021-01-25
Yotam Gubbay	Toronto	2021-01-02
Yushan Tong	Toronto	2020-12-15
Yusuf Ali	Dhaka	2020-12-14
YX L	Markham	2021-01-27
Zac Zhang	Mississauga	2020-12-15
Zachary Trefler	Waterloo	2021-01-25
Zahin Farzana	Saskatoon	2020-12-15
Zaina Farooqi	Mississauga	2020-12-15
Zainab Mohamed	Edmonton	2020-12-15
Zenab Mobin	Richmond hill	2020-12-22
Zi Yi Xu	Toronto	2020-12-22
Zion Key	Toronto	2020-12-16
Zoe Lazaris	Toronto	2021-01-20
Zunaur Qureshi	Cambridge	2020-12-14