

EDUCATION

- **Northeastern University** Boston, MA
Masters of Science, Computer Science Sept 2019 – Current
 - **Relevant Coursework:** Data Structures & Algorithms, Object oriented design, Operating Systems, Python
- **University of Toronto** Toronto, ON
Honours Bachelor of Science, Human Biology & Psychology June 2018
 - **Academic Awards:** Dean's Honor List, President's Scholarship, David S. Bruce Outstanding Abstract Award
 - **Leadership Awards:** Gordon Cressy Leadership Award, Robert Madden CSB Leadership Award

TECHNICAL EXPERIENCE

- **Department of Computer Science, Northeastern University** Boston, MA
Graduate Teaching Assistant, CS5001 - Fundamentals of Computer Programming Jan 2020 – Current
 - Holding weekly office hours, and actively participating in Piazza discussion boards
 - Grading weekly programming assignments, and providing detailed feedback
 - Supervising weekly lab sessions, and answering student questions
 - Identifying and communicating common course concerns with professors and other teaching assistants
- **Human-Computer Interaction Lab, Northeastern University** Boston, MA
Graduate Research Assistant Oct 2019 – Current
 - Researching HCI solutions for self-reporting of personal lifestyle data with collaborative tracking and visualizations
 - Designing UI/UX wireframes, mockups, and interactive prototypes using Adobe XD and Sketch graphics editor
- **Bioengineering Department, University of Toronto** Toronto, ON
Biomedical Engineering Capstone Design Project Sept 2017 – Apr 2018
 - Designed, & prototyped an electronic spirometer to alleviate post-surgical complications in pediatric patients
 - Independently designed and developed a game using Unity3D, C# & Maya with Android app integration
 - Led market research to analyze user needs, client requirements, and demand to scope project goals
- **Pharmacy and Microbiology Departments, University of Toronto** Toronto, ON
Research Student Sept 2015 – Apr 2017
 - Coordinated and conducted lab experiments to investigate antimicrobial resistance and synthetic gene circuits
 - Analyzed results using bioinformatics software (CLC Workbench, MEGA, etc.) and Excel
 - Presented research findings in manuscript style reports, on posters, and on Powerpoint to faculty and students

LEADERSHIP EXPERIENCE

- **Office of Student Life, Northeastern University** Boston, MA
Global Student Life Ambassador Oct 2019 – Current
 - Designing programming for over 500 students to engage within a culturally diverse environment
 - Budgeting over \$5000 to plan and coordinate an exhibit of global food, art, music, and games
- **The Reynolds and Reynolds Company** Toronto, ON
Software Support Specialist Apr 2019 – Aug 2019
 - Assisted automotive clients with troubleshooting software issues and trained them on software updates
 - Learned internal software systems to provide effective service resulting in over 95% of issues resolved with one call
- **The Varsity, UofT Student Newspaper** Toronto, ON
Writer Oct 2016 – Nov 2017
 - Interviewed professors, and other stakeholders to write articles covering STEM news at the university
 - Wrote 5 articles over a year: <https://thevarsity.ca/author/utkarshnasinha/>

PUBLICATIONS

- Clark ST, **Sinha U**, Zhang Y, Wang PW, Donaldson SL, et al. 2019. PBP3 is a common adaptive target among *P. aeruginosa* isolates from cystic fibrosis patients treated with β -lactams. *International Journal of Antimicrobial Agents*.
- Cabello N, Mishra V, **Sinha U**, DiAngelo SL, Chronos ZC, Ekpa NA, Cooper TK, Caruso CR, Silveyra P. 2015. Sex differences in the expression of lung inflammatory mediators in response to ozone. *American Journal of Physiology*