ALEXANDRA **THOMPSON**

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EDUCATION

AUGUST 2022 – APRIL 2027

DOCTOR OF PHILOSOPHY IN COMPUTER SCIENCE (PHD)

VIRGINIA TECH

I am currently a graduate computer science student at Virginia Tech, working towards a PhD degree and a master's degree along-the-way. With the support of my advisor, Dr. Sara Hooshangi, I am currently researching computing education topics.

- I am also pursuing the Preparing the Future Professoriate certificate.

SEPTEMBER 2017 – APRIL 2022

HONOURS BACHELOR OF COMPUTER SCIENCE (HBSC)

UNIVERSITY OF TORONTO MISSISSAUGA CAMPUS (UTM)

In my time pursuing an undergraduate degree, I was a Computer Science specialist (1.5 majors) and an English minor at UTM. Relevant courses and skills gained are listed on the following page. I graduated with distinctions from one of the most prestigious institutions in the world.

WORK EXPERIENCE

SEPTEMBER 2018 – APRIL 2022

TEACHING ASSISTANT, UTM COMPUTER SCIENCE DEPARTMENT

I was an undergraduate teaching assistant at the University of Toronto Mississauga for four years, since the second year of my undergraduate degree. My responsibilities have involved running weekly lab sessions, answering questions on the course discussion board, grading student's assignments/labs/midterms/exams, and completing any task to better support the faculty. Occasionally, I filled in as a lecturer for an instructor if they fell ill during the term.

I have most often supported CSC108 and CSC148, the first-year introductory Python computer science courses. I have also supported the second-year software design course, CSC207, and the second-year computer science writing requirement, CSC290.

Past Teaching Assistantships:

- CSC148 in Winter 2022 (triple position)
- CSC108 in Fall 2021 (double position)
- CSC207 in Fall 2021 (triple position)
- CSC148 in Winter 2021
- CSC207 in Winter 2021
- CSC108 in Fall 2020
- CSC207 in Fall 2020 (double position)
- CSC148 in Winter 2020
- CSC290 in Winter 2020 (double position)
- CSC108 in Fall 2019 (double position)
- CSC148 in Summer 2019
- CSC108 in Winter 2019 (double position)
- CSC108 in Fall 2018

RELEVANT COURSES

Courses taken in Graduate Degree

- CS5014: Research Methods
- CS5724: Human-Computer Interaction
- CS5704: Software Engineering
- GRAD5104: Preparing the Future Professoriate

Courses taken in Junior and Senior years during Undergraduate Degree

- CSC301H: Introduction to Software Engineering
- CSC318H: Interactive Computational Media
- CSC324H: Principles of Programming Languages
- CSC343H: Introduction to Databases
- CSC347H: Introduction to Information Security
- CSC358H: Introduction to Computer Networks
- CSC363H: Computational Complexity and Computability
- CSC373H: Algorithm Design and Analysis
- CSC398H: Ethics in Computer Science
- CSC428H: Human-Computer Interaction
- CSC492H: Independent Computer Science Research (Sequential Pattern Mining on CS Education Topic)
- CSC493H: Independent Computer Science Research (Sequential Pattern Mining on CS Education Topic cont.)
- CSC499H: Research Opportunity Program (Performance regression analysis of Compilers, specifically LLVM and Clang)

PUBLICATIONS

- "High School Socioeconomic Neighborhood Status and CS1 Performance"– Poster Publication
  SIGCSE '23, March 15–18, 2023, Toronto, Canada
  - Related links:
    - Publication DOI: https://dl.acm.org/doi/10.1145/3545947.3576294
- "Exploring How Students Use an Online Learning Environment"– Poster Publication
  SIGCSE '21, March 13–20, 2021, Virtual Event, USA
  - Won the Council for Undergraduate Research (CUR) Award at the SIGCSE Technical Symposium conference in 2021 for the best undergraduate poster publication.
  - Related links:
    - Publication DOI: https://dl.acm.org/doi/10.1145/3408877.3439669
    - Award announcement: https://www.utm.utoronto.ca/math-cs-stats/news/jennifer-alexandra-thompson-announced-winner-council-undergraduate-research-cur-award-best

TECHNICAL SKILLS

- Python
- Java
- C/C++
- HTML/CSS/JS
- React
- Vue
- REST APIs
- Unix/Linux
- PostgreSQL
- Git/ Github
- Jira
- AWS
- Miro
- Figma
- Statistics

OTHER SKILLS

- Strong written skills
- Goal-based independent learner
- Effective presenter
- Highly passionate and motivated