

Darryen Sands

darryensands@gmail.com – (905)-442-5156 – Oshawa, Ontario

EXPERIENCE

Ontario Tech University

Teaching Assistant

Sep. 2022 – Present

Oshawa, ON

- Led tutorials reviewing material of linear algebra for 30-40 students per tutorial, increasing student's success in understanding the content.
- Introduced students to relevant software for performing calculations (MATLAB) to support various learning strategies.
- Marked assignments and exams, which provided feedback for improvement.

Ontario Tech University

Graduate Research Assistant

Sep. 2022 – Apr. 2025

Oshawa, ON

- Created an algorithm to identify clusters within discrete Markov chains.
- Developed the mathematical theory to justify and validate the algorithm and compared this algorithm to other algorithms in the field.
- Wrote a thesis discussing the algorithm's strengths and weaknesses.

Durham Region Unemployed Help Centre

Digital Literacy Facilitator

May. 2022 – Aug. 2022

Oshawa, ON

- I developed and facilitated a workshop to educate clients on safe and practical usage of computers.
- The workshop is composed of 4 days where I teach people how to use computers, web browsers, Microsoft office, and video conferencing software.
- Lessons were taught in a lecture style where clients could read the slides and listen to me teach the concepts to support different learning styles.

Ontario Tech University

Laboratory Assistant

Sep. 2021 – Jan. 2022

Oshawa, ON

- Taught 15-20 students programming for physics applications, which provided additional methods to connect material to applications.
- Utilized Linux and a Raspberry Pi to teach students the utility of these tools.
- Worked with the supervisor to prepare labs for students and created practical lab presentations.

EDUCATION

Ontario Tech University

MSc, Modelling and Computational Science

2022-2025

Oshawa, Ontario

- 4.0/4.3 GPA
- Thesis Title: Cluster Detection in General Markov Chains with Applications to Directed Networks

Ontario Tech University

BSc, Physics and Applied & Industrial Mathematics

2016-2022

Oshawa, Ontario

- President of Ontario Tech Physics Society
- Relevant coursework: Calculus I, II, and III

SKILLS

Technical Skills:

- Programming: Java, Python, MATLAB, C++, JavaScript
- Software: Maple, Microsoft Office Suite

Soft Skills:

- Technical writing: Wrote a thesis about my research
- Presentation skills: Presenting material to technical and non-technical audiences