

# Owen Chambers

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## EDUCATION

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**University of Waterloo**  
Thesis MMath Computer Science

Waterloo, Ontario, Canada  
2021–2023

**Brandon University**  
Honors B.Sc Computer Science

Brandon, Manitoba, Canada  
2016–2021

## RESEARCH

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### User-specific Explanations of AI Systems

Python, Scikit-learn, PyTorch

- Created an **AI model to predict a person's preferred amount of explanation** for any situation.
- Performed a **user study with 42 participants** which achieved significant results.
- Developed **Linear Regression, Logistic Regression, and Random Forest models** to train on the collected dataset which achieved **98% accuracy** corroborating many ideas suggested by researchers in this field.

### Predicting Off-target CRISPR Mutations

Python, PyTorch

- Developed a **Siamese Neural Network** to predict off-target CRISPR mutations which showed that gRNA DNA relationships are required for generalizing off-target mutation predictions.

## EXPERIENCE

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### University of Waterloo

Instructional Support Assistant

Sept 2021–April 2023

- Effectively communicated with students to ensure their understanding of the course material.
- Identified the source of a lack of understanding to provide specific instruction for each student.

### Technology Solve

IT Support Technician

Oct 2020–Jan 2021

- Developed an inventory tracking app using **Microsoft Power Apps**.
- Updated and increased the SEO of websites for several businesses with **100+** employees.

### Heartland Software Solutions

Software Tester

Feb–July 2019

- Spearheaded communication across time zones to make sure tasks completed as scheduled.
- Meticulously followed instructions to re-create and identify bugs in fire prediction software.

## SKILLS

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- **Language Familiarity:** Python, Java, SQL, HTML, Scripting
- **Technologies:** Scikit-learn, PyTorch, Tensorflow, Git, Pandas, NumPy
- **Hobbies:** Violin, Quidditch, Chess

## VOLUNTEER WORK

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### ENACTUS Canada

Brandon University Webface Project Manager

- Coordinated a team of 5 university students to build websites and increase SEO for small businesses in our community.