

# Colin Vandenhof

34 Elgin Street ◇ Waterloo, Ontario, Canada ◇ N2J 2R1  
(782) 234-0118 ◇ colinvandenhof@gmail.com

## EDUCATION

---

### University of Waterloo

Master of Mathematics (Computer Science)

*January 2018 - present*

GPA: 4.00 / 4.00

*Prizes:*

- David R. Cheriton Graduate Scholarship (\$10000/year, 2018 - 2020)
- President's Graduate Scholarship (\$5000, 2019 - 2020)
- Alexander Graham Bell Canada Graduate Scholarship - Masters (\$17500, 2019 - 2020)

### Dalhousie University

Special Undergraduate of Science (Computer Science)

*September 2016 - May 2017*

GPA: 4.00 / 4.00

### McMaster University

Bachelor of Health Sciences (Honours)

*September 2012 - May 2016*

GPA: 3.94 / 4.00

*Prizes:*

- The Provost's Honour Roll Medal (2016)
- Dean's Honour List (2012 - 2016)
- President's Award (\$2000, 2012)

## PUBLICATIONS

---

**A Hybrid Approach to Identifying Unknown Unknowns of Predictive Models.** Vandenhof, C. In Proceedings of the 7th AAAI Conference on Human Computation and Crowdsourcing (HCOMP 2019).

**Contradict the Machine: a Hybrid Approach to Identifying Unknown Unknowns.** Vandenhof, C. & Law, E. In Proceedings of the 18th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2019).

## WORK EXPERIENCE

---

### University of Waterloo, Waterloo, Ontario

*January 2018 - present*

*Teaching Assistant*

- Fall 2019 - CS 486/686: Introduction to Artificial Intelligence
- Winter 2019 - CS 480/680: Introduction to Machine Learning
- Fall 2018 - CS 486/686: Introduction to Artificial Intelligence
- Spring 2018 - CS 486/686: Introduction to Artificial Intelligence
- Winter 2018 - CS 136: Elementary Algorithm Design and Data Abstraction

### Element AI, Toronto, Ontario

*May 2019 - August 2019*

*Applied Research Intern*

Research on decision-making under prediction uncertainty. Investigated how to incorporate utility models for decision-making in production deep learning systems.

**Blockcrushr Labs**, Halifax, Nova Scotia

*September 2017 - December 2017*

*Software Developer*

Development of universal web application. Frontend development in React.

**Atlantic Lottery Outpost Lab**, Halifax, Nova Scotia

*June 2017 - August 2017*

*Summer Student - Software Development*

Development of Amazon Alexa application and deployment with AWS. Development and deployment of lottery results API. Integration of API with Ruby on Rails web application backend. Frontend development in React.

**Dalhousie University**, Halifax, Nova Scotia

*June 2017 - August 2017*

*Teaching Assistant*

- Spring 2017 - CSCI 3120: Operating Systems

## TECHNICAL SKILLS

---

### Programming Languages

Proficient:

Python, JavaScript

Previous experience:

C/C++, R, Java, MATLAB