

ALEX HEYMAN (they/them)

Legal name: Andrew Heyman

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Graduate student at York University

Education

York University (York U)

2021-present

Lassonde School of Engineering

Master of Sciences in Computer Science

Vector Scholarship in Artificial Intelligence (2021-22)

Lassonde Graduate Entrance Scholarship (2021)

University of Toronto (U of T)

2017-2021

Faculty of Arts & Science

Specialist in Computer Science with Focus in AI, Major in Cognitive Science, Minor in Philosophy

Innis College

President's Scholar of Excellence

Innis College Exceptional Achievement Award (2019)

Innis College Alumni Association Scholarship (2020)

Cumulative GPA: 3.71 out of 4.00

University of Chicago Laboratory Schools (UCLS)

9th through 12th grade, 2013-2017

National Merit Finalist

Cumulative GPA: 3.967 out of 4.000

Skills

General computer programming

- 9+ years of experience
- High familiarity with Java, Python
- Moderate familiarity with C, Lua, JavaScript
- Some familiarity with C++

Machine learning

- York U EECS6127, EECS6322, EECS6327
- U of T CSC311, CSC412, CSC413

- Experience with TensorFlow, PyTorch, and scikit-learn

Video game design and programming

- 10+ years of amateur experience

Web design, including use of HTML, CSS, and JavaScript

Mathematics up through linear algebra (U of T MAT223 & MAT224)
and multivariable calculus (U of T MAT237)

Symbolic logic (University of Chicago PHIL20100, U of T CSC240)

Publications

“Information Utilitarianism”

Journal of the University of Toronto Centre for Ethics [2021 C4eJ 33]

<https://c4ejournal.net/2021/07/23/ethics-intersections-reflections-c4e-undergraduate-research-conference-2021-c4ej-33/>

Selected projects

Population-based training of neural networks for TensorFlow (research with Prof. Jimmy Ba)

Link: <https://github.com/AlexHeyman/PopulationBasedTraining>

Undergraduate 2nd year

Cell2D – Java 2D game development library

Website: <http://www.cell2d.org/>

Began 12th grade, development ongoing

Echo – short puzzle-platforming video game made in 38 hours

Website: <http://alexheyman.itch.io/echo>

Undergraduate 1st year

Activities

Undergraduate Fellow at the U of T Centre for Ethics – Undergraduate 4th year

Politics section editor at the UC Gargoyle student newspaper – Undergraduate 4th year

Office hour holder at the U of T Cognitive Science and Artificial Intelligence Students’ Association
– Undergraduate 2nd – 4th year

Member of the U of T Ethics Club – Undergraduate 2nd – 3rd year

Member of the U of T Machine Intelligence Student Team – Undergraduate 1st year