# 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)
AI-EGS (AI Systems: Engineering, Governance, and Society) Trainee Funding Award (2022)

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)

University of Chicago Laboratory Schools (UCLS)
9th through 12th grade, 2013-2017
National Merit Finalist

## 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