

Kawin Ethayarajh

CONTACT	kawin@cs.toronto.edu	kawine.github.io
EDUCATION	STANFORD UNIVERSITY	
	PhD, Computer Science	Fall 2019 -
	UNIVERSITY OF TORONTO	
	MSc, Computer Science (4.00 CGPA)	2019
	BSc (Hons), Computer Science (4.00 CGPA)	2017
AWARDS	NSERC Postgraduate Scholarship - Doctoral: \$63,000	2019
	<i>Canadian equivalent to NSF Fellowship.</i>	
	NSERC Canada Graduate Scholarship - Doctoral: \$105,000 (declined)	2019
	Rhodes Scholarship Finalist	2017
	University of Toronto Fellowship: \$11,200	2017
	John H. Moss Scholarship: \$16,650	2017
	<i>Given to the top graduating student, for academics and leadership.</i>	
	Chancellor Northrop Frye Gold Medal	2017
	<i>For the graduating student with the highest academic standing.</i>	
	NSERC Undergraduate Student Research Award: \$4,500	2015
	<i>Awarded by NSERC (Canadian NSF) to undergraduate researchers.</i>	
	Bank of Montreal National Scholarship: \$75,000	2013
	<i>Merit-based scholarship granted to only 8 students across Canada in 2013.</i>	
	Governor General's Academic Medal (Bronze)	2013
RESEARCH & ENGINEERING	Google	
	INTERN, ADSAI	Summer 2019
	<ul style="list-style-type: none">working on scalable graph representation learning	
	INTERN, RESEARCH & MACHINE INTELLIGENCE	Summer 2018
	<ul style="list-style-type: none">conceived and built a pipeline for zero-shot relation extraction using pre-trained QA modelsincreased precision by 12% and $F_{0.5}$ score by 0.023 over baseline method on a consumer products corpusworked with Apache Beam, Flume, and Tensorflow	
	University of Toronto	
	RESEARCH ASST, NLP GROUP	2017 – 2019
	<ul style="list-style-type: none">derived an unsupervised sentence embedding approach that got state-of-the-art results on similarity tasks, beating baseline by up to 44.4% (Best Paper, proceedings of Repl4NLP at ACL 2018)published proof of why analogies (e.g., <i>king is to queen as man is to woman</i>) exist in word vector spacesworked with Pytorch and Cython	
	RESEARCH ASST, SIGNAL PROCESSING & ORAL COMMUNICATION LAB	2016 – 2017
	<ul style="list-style-type: none">used psycholinguistics to study seasonal changes in mood across 100K Reddit users (published)found that a small cohort was acutely sensitive to seasonal changes, supporting mainstream hypothesis	
	RESEARCH ASST, FACULTY OF LAW	Summer 2016
	<ul style="list-style-type: none">made the first citation prediction model for a common law system, using 52K legal decisions (published)used network theory (HITS) and machine learning (SVMs) to predict citations with 93.8% accuracy	
	RESEARCH ASST, SOFTWARE ENGINEERING LAB	Summer 2015
	<ul style="list-style-type: none">implemented "lifted transformations" in Lifted DSLTrans, a model transformation languagefunded by NSERC (Canadian NSF) undergraduate research award	
PRODUCT & PROJECT MGMT	Review of Undergraduate Computer Science (RUCS)	
	FOUNDER & EDITOR-IN-CHIEF	2015 – 2016

- started the first undergraduate publication dedicated solely to computer science (rucs.ca)
- built readership of several thousand students and mentored every subsequent editor-in-chief
- RUCS is entering its 4th year (2018) and has published work from UToronto, Cornell, and MIT

Governing Council of the University of Toronto

UNIVERSITY AFFAIRS BOARD MEMBER

2015 – 2016

- appointed to a board of the university's highest governing body to shape student affairs
- debated and voted on several key issues, including student privacy and data collection

The Artisan Toolkit (Far & Wide Collective)

REPORTING OFFICER

2013 – 2015

- helped manage \$600,000 in funds to teach business practices to thousands of traditional Afghan artisans
- helped distribute content across many media in English, Dari & Pashto to literate and illiterate users

PUBLICATIONS

1. **Understanding Undesirable Word Embedding Associations.**
Kawin Ethayarajh, David Duvenaud, and Graeme Hirst.
ACL 2019.
2. **Towards Understanding Linear Word Analogies.**
Kawin Ethayarajh, David Duvenaud, and Graeme Hirst.
ACL 2019.
3. **Unsupervised Random Walk Sentence Embeddings: A Strong but Simple Baseline.**
Kawin Ethayarajh
ACL 2018 - Repl4NLP. **Best Paper.**
4. **A Rose by Any Other Name: Understanding Judicial Decisions that Do Not Cite Precedent.**
Kawin Ethayarajh, Andrew Green, and Albert Yoon.
Journal of Empirical Legal Studies. 15(3): 563-596.
5. **The Effect of Photoperiod on the Mood of Reddit Users.**
Kawin Ethayarajh and Frank Rudzicz.
Cyberpsychology, Behavior, and Social Networking. 20(4): 238-245.