

# Kawin Ethayarajh

---

✉ kawin@stanford.edu

🐦 ethayarajh

🔗 kawine.github.io

## EDUCATION

### Stanford University

Ph.D., Computer Science

*Advisor:* Dan Jurafsky

2019 – 2023 (expected)

### University of Toronto

M.Sc., Computer Science

*Advisor:* Graeme Hirst

2017 – 2019

### University of Toronto, Victoria College

B.Sc. Hons., Computer Science

2013 – 2017

## AWARDS

ICML Outstanding Paper

2022

Facebook PhD Fellowship: \$84,000 USD

2021

*Awarded to only two people in the area of Natural Language Processing (NLP).*

NSERC Postgraduate Scholarship - Doctoral: \$63,000 CAD

2019

NSERC Canada Graduate Scholarship - Doctoral: \$105,000 CAD (declined)

2019

Best Paper – Repl4NLP, ACL 2018

2018

Rhodes Scholarship Finalist

2017

University of Toronto Fellowship: \$11,200 CAD

2017

John H. Moss Scholarship: \$16,650 CAD

2017

*Given to the top graduating student, for academics and leadership.*

Chancellor Northrop Frye Gold Medal

2017

*For the graduating student with the highest academic standing at Victoria College.*

NSERC Undergraduate Student Research Award: \$4,500 CAD

2015

*Awarded by NSERC (Canadian NSF) to undergraduate researchers.*

Bank of Montreal National Scholarship: \$75,000 CAD

2013

*Merit-based university scholarship granted to 8 Canadians.*

## FORMER POSITIONS

### Allen Institute for Artificial Intelligence, Research Scientist Intern

Summer 2021

*Hosts:* Yejin Choi and Swabha Swayamdipta (Mosaic Team)

*Project:* Understanding dataset difficulty with information theory.

### Google, SWE Intern

Summer 2019

*Hosts:* AdsAI Team

*Project:* Embed hypergraphs at scale using autoencoders.

### Google, SWE Intern

Summer 2018

*Hosts:* Research & Machine Intelligence Team

*Project:* Zero-shot relation extraction using pre-trained QA models.

### University of Toronto, Graduate Research Assistant

2017 – 2019

*Hosts:* Graeme Hirst and David Duvenaud

*Project:* Theoretical analysis of word embeddings and sentence embeddings in NLP.

### University of Toronto, Undergraduate Research Assistant

2015 – 2016

*Hosts:* Michalis Famelis and Marsha Chechik

*Project:* Transferability across domain-specific languages.

14. **The Authenticity Gap in Human Evaluation.**  
Kawin Ethayarajh and Dan Jurafsky.  
*Empirical Methods in Natural Language Processing (EMNLP)*, 2022.
13. **Understanding Dataset Difficulty with  $\mathcal{V}$ -Usable Information.**  
Kawin Ethayarajh, Yejin Choi, and Swabha Swayamdipta.  
*International Conference on Machine Learning (ICML)*, 2022. 🏆 **Outstanding Paper.**
12. **Richer Countries and Richer Representations.**  
 Kaitlyn Zhou, Kawin Ethayarajh, and Dan Jurafsky.  
*Findings of ACL*, 2022.
11. **Problems with Cosine as a Measure of Embedding Similarity for High Frequency Words.**  
 Kaitlyn Zhou, Kawin Ethayarajh, Dallas Card, and Dan Jurafsky.  
*Association for Computational Linguistics (ACL)*, 2022.
10. **Dynaboard: An Evaluation-As-A-Service Platform for Holistic Next-Generation Benchmarking.**  
 Zhiyi Ma\*, Kawin Ethayarajh\*, Tristan Thrush\*, Somya Jain, Ledell Wu, Robin Jia, Christopher Potts, Adina Williams, and Douwe Kiela.  
*Neural Information Processing Systems (NeurIPS)*, 2021.
9. **Conditional Probing: Measuring Usable Information Beyond a Baseline.**  
 John Hewitt, Kawin Ethayarajh, Percy Liang, and Chris Manning.  
*Empirical Methods in Natural Language Processing (EMNLP)*, 2021.
8. **On the Opportunities and Risks of Foundation Models.**  
 Rishi Bommasani, ..., Kawin Ethayarajh, ..., Percy Liang.  
*whitepaper*.
7. **Attention Flows are Shapley Value Explanations.**  
Kawin Ethayarajh and Dan Jurafsky.  
*Association for Computational Linguistics (ACL)*, 2021.
6. **Utility is in the Eye of the User: A Critique of NLP Leaderboards.**  
Kawin Ethayarajh and Dan Jurafsky.  
*Empirical Methods in Natural Language Processing (EMNLP)*, 2020.
5. **Is Your Classifier Actually Biased? Measuring Fairness under Uncertainty with Bernstein Bounds.**  
Kawin Ethayarajh.  
*Association for Computational Linguistics (ACL)*, 2020.
4. **How Contextual are Contextualized Word Representations? Comparing the Geometry of BERT, ELMo, and GPT-2 Embeddings.**  
Kawin Ethayarajh.  
*Empirical Methods in Natural Language Processing (EMNLP)*, 2019.
3. **Understanding Undesirable Word Embedding Associations.**  
Kawin Ethayarajh, David Duvenaud, and Graeme Hirst.  
*Association for Computational Linguistics (ACL)*, 2019.
2. **Towards Understanding Linear Word Analogies.**  
Kawin Ethayarajh, David Duvenaud, and Graeme Hirst.  
*Association for Computational Linguistics (ACL)*, 2019.
1. **Unsupervised Random Walk Sentence Embeddings: A Strong but Simple Baseline.**  
Kawin Ethayarajh.  
*Repl4NLP Workshop at ACL 2018*. 🏆 **Best Paper.**

|                      |   |                  |
|----------------------|---|------------------|
| INVITED TALKS        | <b>Understanding Dataset Difficulty</b>   |                  |
|                      | RIKEN Center for Advanced Intelligence Project (Japan)  | 09/2022          |
|                      | Stanford NLP  | 08/2022          |
|                      | <b>Utilitarian Model Evaluation</b>   |                  |
|                      | IBM Research (Zurich)   | 05/2022          |
|                      | Stanford HCI  | 11/2020          |
| TEACHING             | <b>Stanford CS221: Artificial Intelligence</b> , Teaching Assistant   | Fall 2022        |
|                      | <i>Foundational principles and practice implementing various AI systems. Specific topics include machine learning, search, Markov decision processes, game playing, constraint satisfaction, graphical models, and logic.</i> |                  |
| SERVICE              | <b>Review of Undergraduate Computer Science</b> , Founding Editor-in-Chief  | 2015 – 2016      |
|                      | <i>Started non-archival publication dedicated to CS undergrad research, helping students write and edit their first scientific articles and publishing research from from UToronto, Cornell, and MIT.</i>                     |                  |
|                      | <b>Governing Council of the University of Toronto</b> , Board Member  | 2015 – 2016      |
|                      | <i>Appointed to a board of the university's highest governing body to shape student affairs, where I debated and voted on several key issues, including student privacy and data collection.</i>                              |                  |
| PROFESSIONAL SERVICE | <b>Reviewing</b>  |                  |
|                      | EMNLP   | 2020, 2021, 2022 |
|                      | ACL   | 2020, 2021, 2022 |
|                      | ACL Rolling Review  | 2021, 2022       |