

# Rachel Kim

✉ rachelmkim@cmu.edu / 👤 <https://rachelmkim.github.io>

*Last Updated: December 31, 2024*

## Education

---

### Carnegie Mellon University

Pittsburgh, PA, USA

*PhD: Societal Computing*, School of Computer Science

Aug 2024 - Present

— Advised by Professor Hoda Heidari, Professor Rayid Ghani

— Courses: Responsible Artificial Intelligence, Applied Research Methods

### University of Toronto

Toronto, ON, Canada

*HBSc: Computer Science Specialist, Mathematics Major*

Sep 2020 - Jun 2024

— cGPA: 3.88 / 4.00

— Graduated with High Distinction

## Research Experience

---

### Carnegie Mellon University

Pittsburgh, PA, USA

*Research Assistant*, advised by Professor Hoda Heidari, Professor Rayid Ghani

Aug 2024 - Present

— Conducting research on artificial intelligence (AI) audits and assurances

— Designing and conducting interviews and performing a comprehensive literature review

### Computational Social Science Lab, University of Toronto

Toronto, ON, Canada

*Research Assistant*, advised by Professor Ashton Anderson

Jun 2021 - Oct 2024

— Conducted research on understanding political and public policy-related discussions on online platforms

— Extracted stances, topics, and frames from millions of Reddit comments and news articles

— Processing and analyzing Reddit comments and news articles in Python using jupyter, pandas, pyspark, nltk, gensim, Hugging Face transformers, and langchain; visualizing data using matplotlib, seaborn

### University of Toronto

Toronto, ON, Canada

*Research Assistant*, advised by Professor Peter Marbach

May 2023 - Aug 2023

— Conducted research on understanding influence on social media, applying and testing a pre-existing theoretical model of communities, their structural properties, and influence on real-world Twitter data

— Leveraged clustering algorithms, principal component analysis, and statistical tests

— Processed and analyzed a MongoDB database of > 100,000 tweets in Python; visualized data using matplotlib, seaborn

### BMO Lab, University of Toronto

Toronto, ON, Canada

*Machine Learning Research Assistant*

Oct 2020 - Mar 2021

— Contributed to research efforts in the intersection between art, performance, emerging technologies, and artificial intelligence (AI)

— Read and summarized research papers on BigGAN, CLIP, and DALL-E

— Preprocessed and cleaned play scripts using regex; performed experiments using pytorch

## Publications

---

The Agenda-Setting Function of Social Media

Rachel Kim, Ashton Anderson

*Under Review*

Capturing Dynamics in Online Public Discourse: A Case Study of Universal Basic Income Discussions on Reddit

Rachel Kim, Veniamin Veselovsky, Ashton Anderson

## Posters and Presentations

---

Capturing Dynamics in Online Public Discourse: A Case Study of Universal Basic Income Discussions on Reddit

Rachel Kim, Veniamin Veselovsky, Ashton Anderson

Poster at the *International Conference on Computational Social Science (IC2S2)*, Jul 2024

Quantifying Public Discourse on Policy Issues: A Case Study of Universal Basic Income Discussions on Reddit

Rachel Kim, Veniamin Veselovsky, Ashton Anderson

Oral Presentation at the *International Conference on Computational Social Science (IC2S2)*, Jul 2022

Assessing the Impacts of COVID-19 on Reddit

Veniamin Veselovsky, Rachel Kim, Ashton Anderson

Oral Presentation at the *International Conference on Computational Social Science (IC2S2)*, Jul 2022

## Awards and Honours

---

*Daniel Berlin Scholarship*, University of Toronto 2024

— Awarded to a computer science student with an interest in artificial intelligence (\$1357.15 CAD)

*Dean's List Scholar*, University of Toronto 2020-2024

— Awarded to students with a cGPA of 3.50 or higher

*The Marion Edith Binning Scholarship*, University of Toronto 2023

— Awarded to students with a cGPA of 3.50 or higher (\$1000 CAD)

*NSERC Undergraduate Student Research Award*, NSERC 2023

— Awarded annually to 250 natural science and engineering students at the University of Toronto on the basis of academic record and research aptitude (\$7500 CAD)

*The Robert C. Dowsett Scholarship*, University of Toronto 2023

— Awarded to students with a cGPA of 3.50 or higher (\$1000 CAD)

*The Professor R. K. Arnold Scholarship*, University of Toronto 2021

— Awarded to students with a cGPA of 3.50 or higher (\$1000 CAD)

*Laidlaw Undergraduate Research and Leadership Scholarship*, Laidlaw Foundation 2021

— Awarded annually to 25 first and second-year students on the basis of passion, drive, enthusiasm and ambition for research and leadership (\$10,000 CAD)

*C. David Naylor Scholarship*, University of Toronto 2020

— Awarded annually to 10 students entering the University of Toronto on the basis of demonstrated leadership and academic excellence (\$20,000 CAD)

*President's Scholar of Excellence*, University of Toronto 2020

— Awarded annually to 150 students entering the University of Toronto on the basis of academic excellence (\$10,000 CAD)

## Teaching Experience

---

**University of Toronto**

*Teaching Assistant*, CSC258: Computer Organization

Toronto, ON, Canada

Winter 2023, Winter 2024

## Industry Experience

---

### TELUS

Toronto, ON, Canada

*Software Development Intern*, Architecture Practice Enablement (ArchPE) Team Sep 2022 - Dec 2022

- Automated KPI calculations and dashboards through Google Data Studio and JavaScript, saving > 1 month of time across the ArchPE Team
- Added capabilities to Backstage software templates used internally by > 50 teams using JavaScript, Docker, Google Cloud Platform (GCP), and Git
- Designed and developed APIs using Postman and PHP

## Community Involvement and Service

---

*Reviewer*, ACM Web Conference (WWW) 2025

2024

*Student Rep.*, Computer Science Undergrad Affairs Committee, University of Toronto

2022-2024

*Project Management Leader*, makesense Mexico

2022

*Director of Academic Events*, Computer Science Student Union, University of Toronto

2021-2022

*Social Media Coordinator*, World University Service of Canada, University of Toronto

2020-2022

*First-Year Representative*, Computer Science Student Union, University of Toronto

2020-2021

*Korean-English Translator Volunteer*, Compassion Korea

2017-2021