

# Rachel Kim

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

*Last Updated: December 9, 2024*

## Education

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### Carnegie Mellon University

Pittsburgh, PA, USA

*PhD: Societal Computing*, School of Computer Science

Aug 2024 - Present

— Advised by Professor Hoda Heidari and 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

— Graduated with High Distinction

## Research Experience

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### Carnegie Mellon University

Pittsburgh, PA, USA

*Research Assistant*, advised by Professor Hoda Heidari and 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

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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

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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

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<i>Daniel Berlin Scholarship</i> , University of Toronto	2024
<i>Dean's List Scholar</i> , University of Toronto	2020 - 2024
<i>The Marion Edith Binning Scholarship</i> , University of Toronto	2023
<i>NSERC Undergraduate Student Research Award</i> , NSERC	2023
<i>The Robert C. Dowsett Scholarship</i> , University of Toronto	2022
<i>The Professor R. K. Arnold Scholarship</i> , University of Toronto	2021
<i>Laidlaw Undergraduate Research and Leadership Scholarship</i> , Laidlaw Foundation	2021
<i>C. David Naylor Scholarship</i> , University of Toronto	2020
<i>President's Scholar of Excellence</i> , University of Toronto	2020

## Teaching Experience

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<b>University of Toronto</b>	Toronto, ON, Canada
<i>Teaching Assistant</i> , CSC258: Computer Organization	Winter 2023, Winter 2024

## Industry Experience

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<b>TELUS</b>	Toronto, ON, Canada
<i>Software Development Intern</i> , 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

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<i>Reviewer</i> , ACM Web Conference (WWW) 2025	2024
<i>Student Rep.</i> , Computer Science Undergrad Affairs Committee, University of Toronto	2022-2024
<i>Project Management Leader</i> , makesense Mexico	2022
<i>Director of Academic Events</i> , Computer Science Student Union, University of Toronto	2021-2022
<i>Social Media Coordinator</i> , World University Service of Canada, University of Toronto	2020-2022
<i>First-Year Representative</i> , Computer Science Student Union, University of Toronto	2020-2021
<i>Korean-English Translator Volunteer</i> , Compassion Korea	2017-2021