

Rachel Kim

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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

— 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 “Who”, “What”, and “How” of Responsible AI Governance: A Systematic Review and Meta-Analysis of (Actor, Stage)-Specific Tools

Blaine Kuehnert*, **Rachel Kim***, Jodi Forlizzi, Hoda Heidari

Under Review

The Agenda-Setting Function of Social Media

Rachel Kim, Ashton Anderson

To appear in *Proceedings of the ACM Web Conference (WWW)*, 2025

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

Rachel Kim, Veniamin Veselovsky, Ashton Anderson

To appear in *Proceedings of the International AAAI Conference on Web and Social Media (ICWSM)*, 2025

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 at the University of Toronto 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

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

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