

Rachel Kim

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Education

Carnegie Mellon University

PhD: Societal Computing, School of Computer Science

Pittsburgh, PA, USA

Aug 2024 - Present

— Advised by Professor Hoda Heidari, Professor Rayid Ghani

— Select Courses: Sociotechnical Evaluations of Generative AI (Currently Taking), Machine Learning for Public Policy (Currently Taking), Responsible Artificial Intelligence, Applied Research Methods

University of Toronto

HBSc: Computer Science Specialist, Mathematics Major

Toronto, ON, Canada

Sep 2020 - Jun 2024

— Graduated with High Distinction

Publications

The AI Power Disparity Index: Toward a Compound Measure of AI Actors' Power to Shape the AI Ecosystem

Rachel M. Kim*, Blaine Kuehnert*, Seth Lazar, Ranjit Singh, Hoda Heidari

Proceedings of the AAAI/ACM Conference on AI, Ethics, and Society (AIES), 2025.

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

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

Proceedings of the ACM Conference on Fairness, Accountability, and Transparency (FAccT), 2025.

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

Rachel M. Kim, Veniamin Veselovsky, Ashton Anderson

Proceedings of the International AAAI Conference on Web and Social Media (ICWSM), 2025.

The Agenda-Setting Function of Social Media

Rachel M. Kim, Ashton Anderson

Proceedings of the ACM Web Conference (WWW), 2025. Oral Presentation.

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

Research Experience

Carnegie Mellon University	Pittsburgh, PA, USA
<i>Research Assistant</i> , advised by Professor Hoda Heidari, Professor Rayid Ghani	Aug 2024 - Present
— Conducting research on evaluating the real-world impact of artificial intelligence (AI) systems, AI audits and assurance, and AI governance	
— Designed and conducted interviews, performed a comprehensive literature review	
 Computational Social Science Lab , University of Toronto	Toronto, ON, Canada
<i>Research Assistant</i> , 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
<i>Research Assistant</i> , 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
<i>Machine Learning Research Assistant</i>	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	

Awards and Honours

<i>Postgraduate Scholarship–Doctoral (PGS D)</i> , NSERC (\$120,000 CAD)	2025
— Selected on the basis of research ability and potential and relevant experience and achievements obtained within and beyond academia	
— Highly ranked applicant; received the PGS D due to declining the Canada Graduate Scholarship–Doctoral (CGS D)	
 <i>Canada Graduate Scholarship–Doctoral (CGS D)</i> , NSERC (\$120,000 CAD)	Declined
 <i>Student Travel Award</i> , ACM Web Conference (WWW) (\$500 AUD)	2025
 <i>Daniel Berlin Scholarship</i> , University of Toronto (\$1357.15 CAD)	2024
— Awarded to a computer science student with an interest in artificial intelligence	
 <i>Dean's List Scholar</i> , University of Toronto	2020-2024
— Awarded to students with a cGPA of 3.50 or higher	
 <i>The Marion Edith Binning Scholarship</i> , University of Toronto (\$1000 CAD)	2023
— Awarded to students with a cGPA of 3.50 or higher	
 <i>Undergraduate Student Research Award</i> , NSERC (\$7500 CAD)	2023
— Awarded annually to 250 natural science and engineering students at the University of Toronto on the basis of academic record and research aptitude	
 <i>The Robert C. Dowsett Scholarship</i> , University of Toronto (\$1000 CAD)	2022

— Awarded to students with a cGPA of 3.50 or higher

The Professor R. K. Arnold Scholarship, University of Toronto (\$1000 CAD)

2021

— Awarded to students with a cGPA of 3.50 or higher

Undergraduate Research and Leadership Scholarship, Laidlaw Foundation (\$10,000 CAD)

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

C. David Naylor Scholarship, University of Toronto (\$20,000 CAD)

2020

— Awarded annually to 10 students entering the University of Toronto on the basis of demonstrated leadership and academic excellence

President's Scholar of Excellence, University of Toronto (\$10,000 CAD)

2020

— Awarded annually to 150 students entering the University of Toronto on the basis of academic excellence

Teaching Experience

University of Toronto

Toronto, ON, Canada

Teaching Assistant, CSC258: Computer Organization

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

Mentor, Graduate Application Support Program, Carnegie Mellon University

2025-

Internal Student Rep., Societal Computing PhD Program, Carnegie Mellon University

2025-

Volunteer, ACM Conf. on Equity and Access in Algorithms, Mechanisms, and Optimization (EAAMO)

2025

Reviewer, ACM Web Conference (WWW)

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