

Hayoung Jung

CONTACT INFORMATION

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www. hayoungjung.me

RESEARCH INTERESTS

My research focuses on advancing inclusive AI technologies and online platforms to better serve people who are overlooked in the development of these systems. Driven by my interdisciplinary background, I develop technical frameworks and methods grounded in social science to (1) audit AI technologies and platforms for bias and misinformation, and (2) understand social phenomena, such as community norms, through language and online behavior, to promote socially-attuned and equitable technologies.

Topics : *Social Computing, Computational Social Science, Algorithmic Audits, and NLP.*

EDUCATION

Princeton University, Princeton, New Jersey 2025 - Present

Ph.D. in Computer Science

Advisers : Manoel Horta Ribeiro, Aleksandra Korolova

University of Washington, Seattle, Washington 2023 - 2025

M.S. in Computer Science

Thesis : *Towards Inclusive Technologies : Examining Social Values and Harms in Large-Scale Sociotechnical Systems* ([UW CSE Best Master's Thesis Award](#))

Adviser : Tanushree Mitra, GPA : 4.0/4.0

University of Washington, Seattle, Washington 2019 - 2023

B.S. with Distinction in Computer Science, B.A. in Political Science

Departmental Honors ; *magna cum laude*

Adviser : Tanushree Mitra, GPA : 3.94/4.0

PUBLICATIONS

** denotes equal contributions*

In Preparation

- [1] Navreet Kaur, **Hayoung Jung**, Shravika Mittal, Munmun De Choudhury, and Tanushree Mitra. Persona-based Evaluation of Generative Search for Opioid-use Information. *In preparation.*
- [2] Mahika Phutane*, **Hayoung Jung***, Tanushree Mitra, and Aditya Vashistha. Covert Ableism in AI : Analysis of LLM-Generated Hiring Conversations. *In preparation.*

Preprints

- [3] **Hayoung Jung**, Shravika Mittal, Ananya Aatreya, Navreet Kaur, Munmun De Choudhury, and Tanushree Mitra. [MYTHTRIAGE: Scalable Detection of Opioid Use Disorder Myths on a Video-Sharing Platform](#). *Under submission at the ACL Rolling Review.*

Peer-Reviewed Conferences

- [4] **Hayoung Jung**, Prerna Juneja, and Tanushree Mitra. [Algorithmic Behaviors Across Regions: A Geolocation Audit of YouTube Search for COVID-19 Misinformation Between the United States and South Africa](#). In *Proceedings of ICWSM 2025*.
- [5] Shravika Mittal, **Hayoung Jung**, Mai ElSherief, Tanushree Mitra, and Munmun De Choudhury. [Online Myths on Opioid Use Disorder: A Comparison of Reddit and Large Language Model](#). In *Proceedings of ICWSM 2025*.
- [6] Chan Young Park*, Shuyue Stella Li*, **Hayoung Jung***, Svitlana Volkova, Tanushree Mitra, David Jurgens, and Yulia Tsvetkov. [VALUESCOPE: Unveiling Implicit Norms and Values via Return Potential Model of Social Interactions](#). In *Proceedings of Findings of EMNLP 2024*.
- [7] Preetam Prabhu Srikar Dammu*, **Hayoung Jung***, Anjali Singh, Monojit Choudhury, and Tanushree Mitra. ["They are uncultured": Unveiling Covert Harms and Social Threats in LLM Generated Conversations](#). In *Proceedings of EMNLP 2024*. Nominated for Best Paper Award.
 - Featured in UW News : [“In the ‘Wild West’ of AI chatbots, subtle biases related to race and caste often go unchecked”](#)

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| RESEARCH EXPERIENCES | Humans and Machines Lab , Princeton Department of Computer Science <i>Graduate Research Assistant</i> , advised by Manoel Horta Ribeiro & Aleksandra Korolova | 2025 - Present |
| | Social Computing & Algorithmic Experiences Lab , UW Information School <i>Graduate Research Assistant</i> , advised by Tanushree Mitra | 2023 - 2025 |
| | TsvetShop , UW Computer Science & Engineering <i>Graduate Research Assistant</i> , advised by Yulia Tsvetkov. | 2023 - 2024 |
| | Social Computing & Algorithmic Experiences Lab , UW Information School <i>Undergraduate Research Assistant</i> , advised by Tanushree Mitra. <u>DUB REU Fellow</u> (Summer '21, '22) | 2021 - 2023 |
| AWARDS & HONORS | Best Master's Thesis Award , UW Computer Science & Engineering <i>Awards a student who writes the most outstanding master's thesis of the year.</i> | 2025 |
| | First-Year Fellowship in the Natural Sciences and Engineering , Princeton University <i>Awards one-year fellowship to first-year doctoral students in Engineering.</i> | 2025 |
| | NSF Graduate Research Fellowship Honorable Mention , National Science Foundation <i>Recognizes "individuals who have demonstrated their potential for significant research achievements in STEM or STEM education."</i> | 2025 |
| | Graduate Student Conference Presentation Award , UW Graduate School <i>Awards \$300 to support registration fees for a conference presentation.</i> | 2024 |
| | Undergraduate Service Award , UW Computer Science & Engineering <i>Awards 5 UW CSE undergraduates, out of 2,000 students, for their outstanding service to the department.</i> | 2023 |
| | Population Health Recognition Award , UW Undergraduate Research Program <i>Recognizes undergraduate researchers presenting at the UW Research Symposium for their "innovative and well-presented population health research work."</i> | 2023 |
| | Phi Beta Kappa , Washington Alpha Chapter <i>Honors top-ranking students based on cumulative academic achievement.</i> | 2022 |
| | Husky 100 Award , University of Washington <i>Awards 100 out of 55,000 students for significant contributions to the university.</i> | 2022 |
| | Mary Gates Research Scholarship , University of Washington <i>A competitive \$5,000 research scholarship for undergraduates at the UW.</i> | 2022 |
| | Washington State Opportunity Scholarship , State of Washington <i>Awards undergraduate students from low- and middle-income families in Washington State to support their higher education pursuits.</i> | 2021 |
| TEACHING EXPERIENCE | <u>Guest Lectures</u> INFO498 : Algorithms and Society , UW Information School <i>Title : My Journey Through Undergrad Research & How To Get Involved.</i> | Spring 2024 |
| | <u>Teaching Assistantships</u> CSE444 : Database Systems Internals , UW CSE <i>Graduate Teaching Assistant</i> , Instructor : Ryan Maas. | Winter 2025 |
| | CSE414 : Intro to Database Systems , UW CSE <i>Graduate Teaching Assistant</i> , Instructor : Ryan Maas | Autumn 2023, Winter 2024 |
| | CSE190B : CSE Direct Admit Seminar , UW CSE <i>Undergraduate Teaching Assistant</i> , Instructor : Dan Grossman | Autumn 2022 |
| | CSE142 : Intro to Programming I , UW CSE <i>Undergraduate Teaching Assistant</i> , Instructor : Brett Wortzman. | Autumn 2021 |
| | Qualtrics , AI/ML Data Intelligence Center of Excellence (DICE) <i>Applied Scientist Intern</i> | Summer 2025 |
| | F5 Networks , Rapid Development Team <i>Software Engineer Intern</i> | Summer 2024 |

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| LEADERSHIP | <p>UW Association for Computing Machinery (UW ACM) 2019-2023 <i>Student Adviser, Vice Chair, Treasurer, Associate Officer</i></p> <ul style="list-style-type: none">• Led the largest student-run group at UW CSE, organizing social & career events for students.• Spearheaded the Research Night Series, with 110 undergraduates attending to learn more about getting involved in computing research and engage with 9 attending labs at UW.• Expanded the Big/Little Peer Mentorship Program to support 350 new students at UW CSE.• Led quarterly fundraising for Code.org and Black Girls CODE, raising \$7,460 in donations total. <p>Polling and Open Data Initiative at the University of Washington 2020-2021 <i>Co-Founder & Technology Director</i>, advised by Profs. Christopher S. Parker & Geoffrey P.R. Wallace</p> <ul style="list-style-type: none">• Founded a 25-student organization that gathers, analyzes, and presents data to advance public understanding of our communities and shape their policies.• Key Outcome : Analyzed 3.8K student responses from UW's campus survey, providing policy recommendations to the UW Board of Regents [PDF] on post-pandemic education practices.• Other Organizations Served : Paul G. Allen School of Computer Science & Engineering [PDF], Associated Students of the University of Washington [PDF] and Washington State Parks. <p>Associated Students of the University of Washington (ASUW) 2019-2020 <i>Student Senator & Member of the Student Technology Fee (STF)</i></p> <ul style="list-style-type: none">• Lobbied state legislators at the Washington State Capitol on higher education issues.• Oversaw the funding of 13 technology project proposals through STF's \$10 million budget. |
| MENTORSHIP | <p>Ananya Aatreya, UW CSE Undergraduate 2024-2025 <i>Co-authored [3].</i> Worked on the MYTHTRIAGE project.</p> |
| SERVICE & VOLUNTEER | <p>Reviewing</p> <ul style="list-style-type: none">• ICWSM : 2026• EMNLP Workshop on Customizable NLP : 2024• ACL Student Research Workshop : 2025 <p>Department Committees</p> <ul style="list-style-type: none">• UW CSE Student Engagement and Access Committee : 2021-2023• UW CSE Teaching-Track Faculty Recruiting Committee : 2022-2023 <p>Volunteer</p> <ul style="list-style-type: none">• Volunteer & Room Monitor, EMNLP Workshop on Customizable NLP : 2024• Speaker & Organizer, UW ACM Research Night Series : 2021-2022• Organizer, UW ACM Big/Little Peer Mentorship Program : 2021-2022• Organizer, UW ACM First/Second-Year Internship Prep Panel : 2020-2021• Organizer, UW CSE Quarterly Departmental Socials : 2019-2023• Panelist, Admitted Student Day Undergraduate Research Roundtable : 2022• Panelist, CSE Direct Admit Seminar (Undergrad Research Panel) : 2020, 2022• Panelist, Allen School Spring Research Showcase : 2021 |
| PRESENTATIONS | <p>Auditing YouTube Search for COVID-19 Misinformation Between the U.S. and South Africa. <i>ICWSM 2025 (Oral) and Workshop on Misinformation Detection</i>, Copenhagen, Denmark June 2025</p> <p>“They are uncultured” : Unveiling Covert Harms & Social Threats in Generated Conversations. <i>EMNLP 2024 (Oral)</i>, Miami FL, USA November 2024</p> <p>VALUESCOPE : Unveiling Implicit Norms and Values via Return Potential Model. <i>EMNLP 2024 (Poster)</i>, Miami FL, USA November 2024</p> <p>Geolocation Audit of YouTube for COVID-19 Misinformation <i>UW Undergraduate Research Symposium</i>, Seattle WA, USA. May 2023</p> |

SKILLS

- **Computer-related :** Python, SQL, Java, C/C++, R, Pandas, LangChain/LangGraph, PyTorch, Flask, Numpy, Git, Matplotlib, AWS, Azure, Javascript, NGINX, HTML/CSS
- **Natural Languages :** English (native) ; Korean (fluent)