

임제인 Jane Im

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University of Michigan, Ann Arbor
School of Information & Division of Computer Science and Engineering

Research Interests

Social Computing, Human-Computer Interaction, Consent, Privacy, Digital Safety, Platforms' Business Practices

Existing social computing systems, such as social media and workplace software, enable two broad classes of problem: 1) interpersonal harm users cause one another (e.g., online harassment) and 2) institutional exploitation of users (e.g., companies' surveillance of users). Both types of issues are closely related with people's consent decisions (e.g., user-to-user: Do I decide to interact with this person on social media?; user-to-company: Do I opt in to platforms' tracking for targeted ads?). However, despite its relevance to socio-technical problems, the concept of consent has not led to adequate safety tools that respect users' consent, nor has it been able to result in informed privacy choices (e.g., overwhelming consent popups). In my research, I rethink the definition of consent by drawing from feminist and Human-Computer Interaction literature to reimagine social software that people can use with enthusiastic consent. Based on such understanding of consent-centered software design, I combine systems-building and empirical studies, to design and build privacy and governance tools for enabling safer online interactions. I also research ways to rethink social platforms' business models because they are inseparable from how social software is designed.

Education

University of Michigan, Ann Arbor, MI Sept. 2018 - current
Ph.D., School of Information & Computer Science and Engineering, College of Engineering
Advisor: Nikola Banovic

Korea University, Seoul, Republic of Korea Mar. 2013 - Aug. 2018
B.B.A. in Business Administration
B.S. in Computer Science and Engineering

Employment

Meta, Menlo Park, CA (remote) Jun. 2021 - Aug. 2021
User Experience Research Intern for Facebook with Scarlett Sheng

Sassafras Tech Collective, Ann Arbor, MI (remote) May 2020 - Aug. 2020
Software Development & Research Intern with Jill Dimond

Airbnb, San Francisco, CA
Research Intern Recipient 2020, Internship deferred due to COVID-19

University of Michigan, Ann Arbor, MI Sept. 2018 - Present
Research Assistant, Teaching Assistant

Awards and Recognitions

Meta PhD Research Fellowship 2023-2025
Selected among 21 fellows out of 3,200 applications. Receives a full coverage of tuition and university fees for up to two academic years, as well as a \$42,000 stipend.

Finalist for CSE Graduate Student Honors Competition 2022
Recognizes "top research done by PhD students" at the University of Michigan CSE. Selected as the representative of the Human-Centered Computing Lab and one of the final competition's five finalists. Awarded \$600.

Barbour Scholarship 2022-2023
Among the oldest and most prestigious awards granted by the University of Michigan, offering one year of funding to female students from Asia and the Middle East since 1917. Covers stipend of \$36,084 and tuition.

Finalist for Meta PhD Research Fellowship	2022
ACM CHI Best Paper Honorable Mention Award	2021
ACM WebSci Best Paper Runner Up Award	2020
SK Telecom Big Data Analytics Competition 3rd Prize	2015
Korea University Honor Scholarships	Spring & Fall 2014, Fall 2015

Publications

Conference Proceedings and Journals

[c1] Paul Resnick, Aljohara Alfayez, **Jane Im**, Eric Gilbert. Searching For or Reviewing Evidence Improves Crowdworkers' Misinformation Judgments and Reduces Partisan Bias. *Collective Intelligence (CI 2023)*. [\[link\]](#)

[c2] **Jane Im**, Ruiyi Wang, Weikun Lyu, Nick Cook, Hana Habib, Lorrie Cranor, Nikola Banovic, Florian Schaub. Less is Not More: Improving Findability and Actionability of Privacy Controls for Online Behavioral Advertising. *ACM Conference on Human Factors in Computing Systems (CHI 2023)*. [\[link\]](#)

[c3] Lia Bozarth, **Jane Im**, Christopher Quarles, Ceren Budak. Wisdom of Two Crowds: Current Practices of Misinformation Moderation on Reddit and How to Improve this Process—A Case Study of COVID-19. *ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW 2023)*. [\[link\]](#)

[c4] **Jane Im**, Sarita Schoenebeck, Marilyn Iriarte, Gabriel Grill, Daricia Wilkinson, Amna Batool, Rahaf Alharbi, Audrey N. Funwie, Tergel Gankhuu, Eric Gilbert, Mustafa Naseem. Women's Perspectives on Harm and Justice after Online Harassment. *ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW 2022)*. [\[link\]](#)

[c5] Hariharan Subramonyam, **Jane Im**, Colleen Seifert, Eytan Adar. Solving Separation-of-Concerns Problems in Collaborative Design of Human-AI Systems through Leaky Abstractions. *ACM Conference on Human Factors in Computing Systems (CHI 2022)*. [\[link\]](#)

[c6] **Jane Im**, Jill Dimond, Melody Berton, Una Lee, Katherine Mustelier, Mark Ackerman, Eric Gilbert. Yes: Affirmative Consent as a Theoretical Framework for Understanding and Imagining Social Platforms. *ACM Conference on Human Factors in Computing Systems (CHI 2021)*. Yokohama, Japan. April 2021. **Best Paper Honorable Mention Award** [\[link\]](#) [\[project website\]](#)

[c7] **Jane Im**, Eshwar Chandrasekharan, Jackson Sargent, Paige Lighthammer, Taylor Denby, Ankit Bhargava, Libby Hemphill, David Jurgens, Eric Gilbert. Still Out There: Modeling and Identifying Russian Troll Accounts on Twitter. *ACM Conference on Web Science (WebSci 2020)*. Southampton, UK. **Best Paper Runner Up Award** [\[link\]](#)

[c8] **Jane Im**, Sonali Tandon, Eshwar Chandrasekharan, Taylor Denby, Eric Gilbert. Synthesized Social Signals: Computationally-Derived Social Signals from Account Histories. *ACM Conference on Human Factors in Computing Systems (CHI 2020)*. Honolulu, HI. April 2020. [\[link\]](#)

[c9] **Jane Im**, Amy X. Zhang, Christopher J. Schilling, David Karger. Deliberation and Resolution on Wikipedia: A Case Study of Request for Comments. *ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW 2018)*. New York, NY. November 2018. [\[link\]](#)

[c10] **Jane Im**, Paul Medlock-Walton, Mike Tissenbaum. App Inventor VR Editor for Computational Thinking. *Computational Thinking in Education Conference (CTE 2017)*. Hong Kong. June 2017. [\[link\]](#)

Papers under submission

[c11] Shubham Atreja, **Jane Im**, Paul Resnick, Libby Hemphill. AppealMod: Shifting Effort from Moderators to Users Making Appeals. *Under submission*.

Posters

[p1] **Jane Im**, Nikola Banovic, Florian Schaub. Designing and Building Social Platforms Grounded in Consent. *Trust & Safety Research Conference*. Stanford, CA. September 2022.

Organized Panels

[o1] Douglas Zytke, **Jane Im**, Jonathan Zong. Consent: A Research and Design Lens for Human-Computer Interaction. *Computer Supported Cooperative Work and Social Computing (CSCW'22 Companion)*. Virtual. November 2022.

Select Workshop Papers

[w1] **Jane Im**, Jeeyoon Hyun, Jill Dimond, Melody Berton, Eric Gilbert. Building Social Platforms around Affirmative Consent. *Moving Forward Together: Effective Activism For Change Workshop at ACM Conference on Human Factors in Computing Systems (CHI 2020)*. Honolulu, HI. April 2020.

[w2] **Jane Im**. Non-consensual Images & Videos and Consent in Social Media. *Sensitive Research, Practice, and Design in HCI Workshop at ACM Conference on Human Factors in Computing Systems (CHI 2019)*. Glasgow, UK. May 2019.

Media Publication

[m1] Heeryung Choi, **Jane Im**, Cindy Lin, Yixin Zou. An open letter to the U-M community. *The Michigan Daily*. <https://www.michigandaily.com/opinion/op-eds/an-open-letter-to-the-u-m-community/>

Select Research Experience

University of Michigan

Sept. 2018 - Present

Research Assistant

- Currently designing and researching privacy and consent mechanisms that give users more agency and protect people's safety in user-to-system and user-to-user interactions [c2].
- Using social science theories, system-building, interviews, and surveys, uncovered how lack of consent lead to a wide range of problems on social media, with users wanting fine-grained privacy and safety tools [c6, c8].

Meta (Facebook)

Jun. 2021 - Aug. 2021

User Experience Research Intern, advised by Scarlett Sheng, Rui Yang & Ayesha Zafar

- Impacted Meta's privacy strategy by doing foundational mixed-method research to understand users' perception of consent in the context of online behavioral advertising and App Tracking Transparency. Quantitatively analyzed existing survey data to understand Facebook advertisers' goals.

Sassafras Tech Collective

May 2020 - Aug. 2020

Software Development & Research Intern, advised by Jill Dimond

- Built and conducted (remote) usability testing of a moderation system. Based on the usability testing results, designed mockups and further developed the moderation system.

Haystack Group, MIT

Apr. 2017 - Apr. 2018

Undergraduate Research, advised by Amy X. Zhang and David Karger

- Investigated how various factors affect the outcome of Request for Comments (RfC), a deliberative discussion on Wikipedia, by using mixed methods: 1) interviewing Wikipedia editors and 2) creating and quantitatively analyzing an English RfC dataset [c9].

MIT App Inventor, MIT

Oct. 2016 - May 2017

Undergraduate Research, advised by Paul Medlock-Walton and Hal Abelson

- Enabled novice programmers to create modular code in the App Inventor, by developing customized blocks within the system that can execute any functions of an imported API. Implemented virtual reality (VR) blocks in the App Inventor to help novice users build VR apps [c10].

Soft Active Materials Lab, MIT

Sept. 2016 - Feb. 2017

Undergraduate Research, advised by Hyunwoo Yuk

- Developed 3D printing based soft robotic hands with stand-alone actuation and control system. Implemented the software interface for precise 3D printing for advanced soft materials.

Invited Talks

Beyond Moderation, Yale Law School's Social Media Governance Initiative <i>Interface Design and Business Models for Safer Social Platforms</i>	Mar. 2023
Current Topics in Privacy Seminar, Carnegie Mellon University <i>Less is Not More: Improving Findability and Actionability of Privacy Controls for Online Behavioral Advertising</i>	Mar. 2023
GermSyllabus talk series, Germ Network <i>Affirmative Consent in Platform Design</i>	Nov. 2022
Expertise@Scale Lab, Carnegie Mellon University <i>Designing and Building Social Platforms Grounded in Consent</i>	Mar. 2022
DUB Shorts Seminar, University of Washington <i>Yes: Affirmative Consent as a Theoretical Framework for Understanding and Imagining Social Platforms</i>	Aug. 2021
MetaGov Seminar, Metagovernance Project <i>Reimagining and Building Social Platforms Grounded in Consent</i>	Apr. 2021
HCI Seminar, Seoul National University <i>Reimagining and Building Social Platforms Grounded in Consent</i>	Jan. 2021
Wikimedia Showcase, Wikimedia Foundation <i>Deliberation and Resolution on Wikipedia: A Case Study of Requests for Comments</i>	Sept. 2018
IAR Seminar, University of Michigan School of Information <i>Deliberation and Resolution on Wikipedia: A Case Study of Requests for Comments</i>	Sept. 2018

Invited Workshop and Consortium Participation

Human-Computer Interaction Consortium <i>Selected as one of the two funded students from University of Michigan to participate</i>	Jun. 2023
Preparing Future Faculty Seminar <i>Rackham Graduate School & Center for Research on Learning and Teaching</i>	May 2023
Social Media Governance Initiative Spring 2023 Convening: Beyond Moderation <i>Yale Law School's Social Media Governance Initiative</i>	Mar. 2023

Invited Guest Lectures

CS 598 Antisocial Computing Guest Lecture, University of Illinois at Urbana-Champaign <i>Building Social Platforms Grounded in Consent</i>	Oct. 2020
EECS 598 Human-Computer Interaction Guest Presentation, University of Michigan <i>Synthesized Social Signals: Computationally-Derived Social Signals from Account Histories</i>	Apr. 2020

Press

2022 CSE Graduate Student Honors Competition highlights outstanding research.
University of Michigan CSE News. Nov 10, 2022.

(Quoted in) Privacy by Design laws will kill your data pipelines.
Protocol. Hirsh Chitkara. May 16, 2022.

Predictive Model Identifies Wikipedia Arguments that Will Never Get Resolved.
Campus Technology. Dian Schaffhauser. Nov. 27, 2018.

A Third of Wikipedia Discussions Are Stuck in Forever Beefs.
Vice Motherboard. Samantha Cole. Nov. 7, 2018.

Teaching Experience

SI 539: Web Design, Development, and Accessibility, University of Michigan

Winter 2020

Graduate Student Instructor

- A graduate course providing hands-on approach to learning responsive, accessible front-end programming for Web Design. Topics covered include HTML5, CSS3 (including Bootstrap framework), JavaScript, and the POUR design principles of accessible design. Led 2 discussion sections per week.

SI 339: Web Design, Development, and Accessibility, University of Michigan

Fall 2019

Graduate Student Instructor

- An undergraduate version of the course above.

Academic Mentoring

I listed the next positions of students for whom I helped faculty write a letter of recommendation (these students tend to have been interested in Masters/PhD programs; just noting this as other students have also been amazing). If you're a student who feels uncomfortable having your name included for whatever reason (which I would totally understand), please let me know.

Paige Lighthammer, University of Michigan Nuclear Engineering (Undergraduate) [c7]	Sept. 2018 - Apr. 2019
Jackson Sargent, University of Michigan CSE (Undergraduate) [c7]	Sept. 2018 - Apr. 2019
Ankit Bhargava, University of Michigan CSE (Undergraduate) [c7]	Sept. 2018 - Apr. 2019
Taylor Denby, University of Michigan Cognitive Science (Undergraduate) [c7, c8] <i>Next: University of Michigan, Master of Science in Information</i>	Sept. 2018 - Aug. 2019
Sonali Tandon, University of Michigan School of Information (Masters) [c8]	Sept. 2018 - Apr. 2019
Katherine Mustelier, University of Michigan School of Information (Undergraduate) [c6]	Mar. 2020 - May. 2020
Evan Wang, University of Michigan Computer Science (Undergraduate)	Oct. 2020 - Dec. 2020
Jake Klaristenfeld, University of Michigan CSE (Undergraduate)	Oct. 2020 - Apr. 2021
Eleanor Desmond, University of Michigan Electrical Engineering (Undergraduate)	Oct. 2020 - Jul. 2021
Jolie Kaplan, University of Michigan CSE (Undergraduate)	Oct. 2020 - Jul. 2021
Alice Li Wang, University of Michigan Stephen M. Ross School of Business & School of Information (Undergraduate)	Feb. 2021 - Apr. 2021
Ruiyi Yang, University of Michigan CSE (Undergraduate) [c2] <i>Next: Carnegie Mellon University, Master of Science in Intelligent Information Systems</i>	Oct. 2021 - Aug. 2022

Weikun Lyu, University of Michigan Math & CS (Undergraduate) [c2] Oct. 2020 - Apr. 2021; Jan. 2022 - May 2022
Awarded the Blue Ribbon Certificate for his presentation at the UROP symposium.
Next: Meta, Software engineer

Nick Cook, University of Michigan Computer Science (Undergraduate) [c2] Jul. 2022 - Aug. 2022

Sean Scarnecchia, University of Michigan CSE (Undergraduate) Oct. 2021 - Apr. 2022; Oct. 2022 - Jan. 2023

Annie Chen, University of Michigan CS (Undergraduate) Oct. 2020 - Apr. 2022; Sept. 2022 - Apr. 2023

Academic Service

FACCT, Program Committee 2023

SOUPS, Publicity Junior Co-Chair 2023

Review

Special Recognitions for Outstanding Review: UIST 2022, CHI 2023 (4 times), CSCW 2023 January cycle
 CHI (2021 - 2023), FACCT (2023), CSCW (2019 - 2021, 2023), UIST (2022), IEEE Pervasive Computing (2022), ICWSM (2022), PLoS ONE (2021), IEE ICDM (2019)

Leadership and Outreach

UMSI Diversity, Equity, and Inclusion Committee, PhD student representative Fall 2022 - Spring/Summer 2023

- PhD student representative for UMSI's DEI committee, which focuses on "school level efforts to promote an equitable and inclusive community across students, staff, and faculty."

UMSI PhD Student Internship Information Session, Organizer Fall 2021

- Organized a panel to give junior PhD students advice on finding and securing internships.

SI & CSE Student Initiated Doctoral Program (SIDP) Design, Assistant to faculty Fall 2020

- Assisted faculty members in drafting a proposal for evaluating students that want to pursue a PhD in both SI and CSE. Led the effort as the only PhD student.
- I was told that I may be the first PhD student to be *formally evaluated* by SI and CSE PhD program committees and enrolled in the two programs via U-M's Student Initiated Doctoral Program (SIDP).

Michigan Interactive and Social Computing (MISC), Student Organizer Fall 2020 - Winter 2021

- Co-organized speaker series on HCI and social computing.

Doctoral Executive Committee (DEC) Fall 2019 - Winter 2020

- DEC is a group of PhD students that represents the voice of UMSI PhD students.

Skills

Programming Languages. Python, Java, Ruby, JavaScript, HTML, CSS, MATLAB, SQL

Research Methods. Systems-building, User study, Usability testing, Survey, Experiment, Interview

Web framework. Django, Flask, Ruby on Rails

Software. GitHub, L^AT_EX, Linux command line