Jane Im

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University of Michigan, Ann Arbor
School of Information
105 South State St, Ann Arbor, MI 48109

Research Interests

Social Computing, Human-Computer Interaction, Computational Social Science

Education

University of Michigan, Ann Arbor, MI — Sept. 2018 - Present
Ph.D. in Information & Computer Science and Engineering
School of Information
Computer Science and Engineering, College of Engineering
Advised by Dr. Eric Gilbert

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

Massachusetts Institute of Technology, Cambridge, MA — Sept. 2016 - May 2017
Undergraduate special student program (non-degree, full-time enrollment)

Employment

Facebook, Menlo Park, CA — June 2021 - Aug. 2021
User Experience Research Intern

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

Publications

Proceedings and Journals

[c1] 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. *27% Acceptance Rate*
[Best Paper Runner Up Award]

[c2] 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. *24.3% Acceptance Rate*

[c3] Jane Im, Amy X. Zhang, Christopher J. Schlling, 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. *25% Acceptance Rate*

[c4] 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.

Papers under submission for peer-review

[c5] 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. *Under submission at CHI 2021.*

Posters, Demos, and 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. Workshop Paper.

[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. Workshop Paper.

Awards & Scholarships

Best Paper Runner Up Award 2020
ACM Conference on Web Science (WebSci 2020) [c1]

2017 Annual Soft Robotics Competitions 1st prize in Design 2017
Harvard University, Cambridge, MA

Big Data Analytics Competition 3rd Prize 2015
SK Telecom, Seoul, Republic of Korea

Korea University Honor Scholarships 2014 spring & fall, 2015 fall
Honors Scholarships, 33% of tuition covered for 2014 spring, 50% of tuition covered for 2015 fall
Best Honors Scholarships, tuition fully covered for 2014 fall

Grants

Rackham Conference Travel Grant 2020
University of Michigan, Ann Arbor, MI

School of Information Conference Travel Grant 2018 - 2020
University of Michigan, Ann Arbor, MI

Research Experience

comp.social, University of Michigan Sept. 2018 - Present
Research Assistant, advised by Dr. Eric Gilbert

- Currently designing and building novel social computing systems that are *consentful*—systems that protect people's interpersonal consent in interactions.

- Theorized how social platforms can be built to ensure online interactions are consensual based on affirmative consent ("yes means yes"). [c5]
- Built *Sig*, a Chrome extension that computes and renders synthesized social signals (S3s) on social platforms. S3s are social signals computationally derived from an account's history (e.g., behavior of posting toxic content), and then rendered on the profile. Conducted a field deployment study including surveys and interviews to evaluate Twitter users' experiences of using Sig. [c2]
- Built ML models to identify potential Russian trolls on Twitter, using an unbalanced dataset of 2.2K Russian troll accounts released by Twitter and 170K control accounts. [c1]

Sassafras Tech Collective May 2020 - Aug. 2020
Software Development & Research Intern, advised by Dr. Jill Dimond

- Conducted (remote) usability testing of a client's 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 Dr. Amy X. Zhang and Dr. 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. [c3]

MIT App Inventor, MIT Oct. 2016 - May 2017
Undergraduate Research, advised by Dr. 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. [c4]

Soft Active Materials Lab, MIT Sept. 2016 - Feb. 2017
Undergraduate Research, advised by Dr. 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.

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.

Selected Press

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.

Invited Talks

CS 598 Antisocial Computing Guest Lecture, University of Illinois at Urbana-Champaign — Oct. 2020
Building Social Platforms Grounded on Consent

EECS 598 Human-Computer Interaction Guest Presentation, University of Michigan — Apr. 2020
Synthesized Social Signals: Computationally-Derived Social Signals from Account Histories

PhD Recruitment Flash Talk, University of Michigan School of Information — Feb. 2019
Still Out There: Modeling and Identifying Russian Troll Accounts on Twitter

Wikimedia Showcase, Wikimedia Foundation — Sept. 2018
Deliberation and Resolution on Wikipedia: A Case Study of Requests for Comments

IAR Seminar, University of Michigan School of Information — Sept. 2018
Deliberation and Resolution on Wikipedia: A Case Study of Requests for Comments

Academic Mentoring

Paige Lighthammer, University of Michigan (Undergraduate) [c1]	Sept. 2018 - Apr. 2019
Jackson Sargent, University of Michigan Computer Science (Undergraduate) [c1]	Sept. 2018 - Apr. 2019
Ankit Bhargava, University of Michigan Computer Science (Undergraduate) [c1]	Sept. 2018 - Apr. 2019
Taylor Denby, University of Michigan Cognitive Science (Undergraduate) [c1]	Sept. 2018 - Aug. 2019
Sonali Tandon, University of Michigan School of Information (Masters) [c2]	Sept. 2018 - Apr. 2019
Katherine Mustelier, University of Michigan School of Information (Undergraduate) [c5]	Mar. 2020 - May. 2020
Annie Chen, University of Michigan Computer Science (Undergraduate)	Oct. 2020 - Present
Jake Klaristenfeld, University of Michigan Computer Science (Undergraduate)	Oct. 2020 - Present
Weikun Lyu, University of Michigan Mathematics & Computer Science (Undergraduate)	Oct. 2020 - Present
Evan Wang, University of Michigan Computer Science (Undergraduate)	Oct. 2020 - Present
Eleanor Desmond, University of Michigan College of Engineering (Undergraduate)	Oct. 2020 - Present
Jolie Kaplan, University of Michigan (Undergraduate)	Oct. 2020 - Present

Service

Review

ACM CHI full paper 2021

ACM CSCW full paper 2019 - 2020

ACM CSCW poster 2020

ACM CHI Late-Breaking Work 2020

IEE ICDM full paper 2019

Leadership

Social Media Research Lab (SMRL), University of Michigan, Student Coordinator Fall 2020 - Winter 2021

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

Doctoral Executive Committee (DEC) Fall 2019 - Winter 2020

- DEC is a group of PhD students that represent the voice of PhD students at University of Michigan's School of Information.
- Organized social events and actively participated in addressing departmental issues that impact PhD students.

Skills

Programming Languages. Python, C, Java, Ruby, JavaScript, HTML, CSS, MATLAB, SQL
Research Methods. Interview, System building & User study, Usability testing, Survey, Machine Learning
Web framework. Django, Flask, Ruby on Rails
Software. GitHub, LaTeX, Linux command line

Coursework

Ph.D. courses
Microarchitecture, Computer & Network Security, Human-AI Interaction, Data Mining, Doctoral Foundations Seminar, Human-Computer Interaction, Qualitative Research Methods, Interpretivist Theories in Computer-Supported Cooperative Work/Social Computing, Research Methods

Computer Science & Math undergraduate courses
Programming Langugage, Data Structure, Algorithms, Computer Architecture, Data Communications, Probability and Random Process, Calculus with Lab I, Computer Programming I, Introduction to Linear Algebra, Operating Systems, Artificial Intelligence, Databases, Embedded Systems, Internet Protocols, Discrete Mathematics, Theory of Computation, Advanced Computer Programming & Lab, Project for Graduation, Introduction to Inference, User Interface Design, Intelligent Multimodal User Interfaces

Last updated: December 12, 2020