

JANE HSIEH

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EDUCATION

Carnegie Mellon University PhD in Software Engineering, advised by Haiyi Zhu August 2020 - Present
Oberlin College BA in Computer Science (w/ High Honors) & Math (3.77 GPA) August 2016 - May 2020

My research is broadly focused on mitigating impacts of AI-powered systems on online communities. In particular, I explore ways of improving well-being and working conditions of gig workers via the advancement of policy and data-driven tools. Leveraging empirical and design techniques, I integrate perspectives of multiple stakeholder groups to develop frameworks for facilitating gig worker collectivism and empowerment.

RESEARCH PUBLICATIONS & PREPRINTS

- **Jane Hsieh**, Joselyn Kim, Laura Dabbish, Haiyi Zhu, “Nip it in the Bud”: Moderation Strategies in Open Source Software Projects and the Role of Bots”, *ACM Conference On Computer-Supported Cooperative Work And Social Computing, CSCW '23*, Minneapolis, MN. [ACM DL](#).
- **Jane Hsieh**, Miranda Karger, Lucas Zagal, Haiyi Zhu, “Co-Designing Alternatives for the Future of Gig Worker Well-Being: Navigating Multi-Stakeholder Incentives and Preferences”, *Designing Interactive Systems Conference, DIS '23*, Pittsburgh, PA, [ACM DL](#).
- **Jane Hsieh**, Oluwatobi Adisa, Sachi Bafna, Haiyi Zhu, “Designing Individualized Policy and Technology Interventions to Improve Gig Work Conditions”, **Best Paper Award** (1 of 13) from the *Annual Symposium on Human-Computer Interaction for Work 2023, CHIWORK '23*, Oldenburg, DE. [ACM DL](#).
- **Jane Hsieh**, Yili Hong, Gordon Burtch, Haiyi Zhu, “A Little Too Personal: Effects of Standardization versus Personalization on Job Acquisition, Work Completion, and Revenue for Online Freelancers”, *CHI Conference on Human Factors in Computing Systems, CHI '22*, New Orleans, LA, [ACM DL](#).
- Michael Xieyang Liu, **Jane Hsieh**, Nathan Hahn, Angelina Zhou, Emily Deng, Shaun Burley, Cynthia Taylor, Aniket Kittur, Brad A. Myers, “Unakite: Scaffolding Developers’ Decision Making About Trade-offs through Capturing and Organizing Web Resources”, **Best Paper Honorable Mention Award** (top 6 of 93) from the *ACM Symposium on User Interface Software and Technology, UIST'19*, New Orleans, LA, October 20-23, 2019. pp. 67-80. [ACM DL](#) and [local pdf](#).
- Yumi Ijiri, Kathryn L. Krycka, Ian Hunt-Isaak, Hillary Pan, **Jane Hsieh**, Julie A. Borchers, James J. Rhyne, Samuel D. Oberdick, Ahmed Abdelgawad, Sarah A. Majetich, “Correlated spin canting in ordered core-shell $\text{Fe}_3\text{O}_4/\text{Mn}_x\text{Fe}_{3-x}\text{O}_4$ nanoparticle polycrystalline assemblies,” *Physical Review B* 99(9). March 18, 2019. p. 094421. [APS DL](#) and [local pdf](#).

LIGHTLY-REVIEWED PUBLICATIONS

- Michael Xieyang Liu, Nathan Hahn, Angelina Zhou, Shaun Burley, Emily Deng, **Jane Hsieh**, Aniket Kittur and Brad A. Myers, “UNAKITE: Support Developers for Capturing and Persisting Design Rationales When Solving Problems Using Web Resources”, *DTSHPS'18 Workshop on Designing Technologies to Support Human Problem Solving (DTSHPS'18)* at VL/HCC'2018. Oct. 1, 2018. p. 25. [extended abstract](#) or [full proceedings](#).
- **Jane Hsieh**, Michael Xieyang Liu, Brad A. Myers, Aniket Kittur, “Poster: An Exploratory Study of Web Foraging to Understand and Support Programming Decisions,” *2018 IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC'18)*, October 1 - 4, 2018, Lisbon, Portugal. pp. 305-306. [IEEE DL](#) and [local pdf](#).

PROFESSIONAL EXPERIENCES

Data Science Consultant at Upwork Inc. Supervised by Sibio Lu	<i>Summer 2021 - Spring 2022</i> Remote
Software Engineer Intern on IBM's Toolbox Team <i>Developed Slack and Github drivers for IBM's Support Portal</i>	<i>Summer 2020</i> Raleigh, NC
Computer Science Honors Thesis Constructing Effective Stack Overflow Questions, advised by Cynthia Taylor	<i>Fall 2019-Spring 2020</i> Oberlin, OH
Extreme Blue Technical Intern, managed by Ross Grady Open-sourced terminal application for IBM's Multicloud Manager, defense patent application	<i>Summer 2019</i> Raleigh, NC
REUSE Research Assistant , advised by Brad Myers & Niki Kittur UNAKITE Tool for Tabulated Decision Making, mentored by Michael Liu	<i>Summer 2018-2019</i> Pittsburgh, PA
STRONG Research Program Characterizing and Separating Magnetic Nanoparticles, advised by Yumi Ijiri	<i>2016 - 2018</i> Oberlin, OH

TEACHING

TA for 05318: Human AI Interaction	<i>Fall 2022 & Fall 2023</i>
Office hour holder, Grader and Tutor for Algorithms	<i>Fall 2018 - 2019</i>
Lab helper for Python course	<i>Spring 2017, 2018</i>

MENTORING

Mialy Rasetarinera & Erik Chou (HCII REU): developing collective data-exchange portal	<i>Summer 2023</i>
Oluwatobi Adisa & Sachi Bafna : review policy & HCI literature on gig work conditions	<i>Summer 2023</i>
Miranda Karger & Lucas Zagal (HCII REU): conducted multi-stakeholder co-design sessions	<i>Summer 2022</i>
Joselyn Kim : coded, analyzed, and wrote about open source moderation data	<i>Fall - Spring 2021</i>
Sophomore Opportunities & Academic Resources (SOAR) Leader	<i>Fall 2019 - Spring 2020</i>

HONORS/AWARDS

National Science Foundation Graduate Research Fellowship	2022
2020 Annual R.J. Thomas Award for an Outstanding Computer Science Student	2020
Clare Boothe Luce Scholarship at Oberlin College	<i>Tuition scholarship for Fall 2018 - Spring 2019</i>
STRONG Scholarship & IB Diploma recipient	<i>Summer 2016</i>

SERVICE & VOLUNTEERING

Subcommittee Chair Assistant to Interaction Beyond the Individual Subcommittee	<i>CHI 2023</i>
Member of the DPAC Undergrad Research Engagement Working Group	<i>Fall 2021 - ongoing</i>
Web Dev for Digital Yearbook	<i>Summer 2020</i>
Uncovering Covid Workshop Leader	<i>Spring 2020</i>
REUSE (Software Engineering REU at CMU) Admissions Panel	<i>2021-2023</i>
Reviewer for ACM CHI	<i>2020, 2023, 2024</i>
Student Volunteer for ACM CHI and DIS	<i>2023</i>