JANE HSIEH

janeon.github.io ◇ jhsieh2@cs.cmu.edu

EDUCATION

Carnegie Mellon University PhD in Software Engineering, advised by Haiyi Zhu August 2020 - Present
Oberlin College BA in Computer Science (with High Honors) and Mathematics August 2016 - May 2020
with Concentration in Cognitive Science (Major) GPA: (3.77) 3.71

My research is broadly focused on interactions between AI systems and workers. In particular, I am interested in improving the well-being and working conditions of gig workers via technology and policy advancements. Currently, I leverage empirical and design techniques to integrate perspectives of multiple stakeholder groups, so as to develop frameworks for facilitating collectivism and empowerment among gig workers.

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. [To appear]
- **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, arXiv.
- **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. arXiv.
- **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 $Fe_3O_4/Mn_xFe_{3-x}O_4$ 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.

EXPERIENCES

Data Science Consultant at Upwork Inc. *Summer 2021 - Spring 2022*
Supervised by Sibo Lu Remote

Software Enginner Intern on IBM's Toolbox Team *Summer 2020*
Developed Slack and Github drivers for IBM's Support Portal Raleigh, NC

Computer Science Honors Thesis *Fall 2019-Spring 2020*
Constructing Effective Stack Overflow Questions, advised by Cynthia Taylor Oberlin, OH

Extreme Blue Technical Intern, managed by Ross Grady *Summer 2019*
Open-sourced terminal application for IBM's Multicloud Manager, defense patent application Raleigh, NC

REUSE Research Assistant, advised by Brad Myers & Niki Kittur *Summer 2018-2019*
UNAKITE Tool for Tabulated Decision Making, mentored by Michael Liu Pittsburgh, PA

STRONG Research Program *2016 - 2018*
Characterizing and Separating Magnetic Nanoparticles, advised by Yumi Ijiri Oberlin, OH

TEACHING

TA for Human AI Interaction *Fall 2022 and upcoming Fall 2023*

Office hour holder, Grader and Tutor for Algorithms *Fall 2018 - 2019*

Lab helper for Python course *Spring 2017, 2018*

MENTORING

Mialy Rasetarinera & Erik Chou (HCII REU): developing collective data-exchange portal *Summer 2023*

Miranda Karger & Lucas Zagal (HCII REU): conducted multi-stakeholder co-design sessions *Summer 2022*

Joselyn Kim: coded, analyzed, and wrote about open source moderation data *Fall - Spring 2021*

Sophomore Opportunities & Academic Resources (SOAR) Leader *Fall 2019 - Spring 2020*

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 *Tuition scholarship for Fall 2018 - Spring 2019*

STRONG Scholarship & IB Diploma recipient *Summer 2016*

SERVICE & VOLUNTEERING

Subcommittee Chair Assistant to Interaction Beyond the Individual Subcommittee *CHI 2023*

Member of the DPAC Undergrad Research Engagement Working Group *Fall 2021 - ongoing*

Web Dev for Digital Yearbook *Summer 2020*

Uncovering Covid Workshop Leader *Spring 2020*

REUSE (Software Engineering REU at CMU) Admissions Panel *2021-2023*

Reviewer for ACM CHI *2020, 2023*

Student Volunteer for ACM CHI and DIS *2023*