

Jenny T. Liang

Software Engineering Researcher

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Education

- 2021 - 2027 **Carnegie Mellon University, Pittsburgh, PA, USA**
Ph.D. in Software Engineering
- 2015 - 2021 **University of Washington, Seattle, WA, USA**
B.S. in computer science & informatics (GPA: 3.77)
UW Academy Scholar (UW early entrance at 16 years old)

Research Experience

- 07/2021 - **Allen Institute of AI (AI2), Mosaic Team**
Predoctoral Young Investigator, advised by Ronan Le Bras and Yejin Choi
- 01/2020 - **University of Washington, Information School, Code & Cognition Lab**
Undergraduate Research Assistant, advised by Amy J. Ko
- 04/2021 - **Microsoft Research, Software Analysis and Intelligence (SAINTES) Group**
07/2021 Undergraduate Research Intern, advised by Danae Ford Robinson and Thomas Zimmermann
- 06/2020 - **Allen Institute of AI (AI2), Mosaic Team**
04/2021 Undergraduate Research Intern, advised by Swabha Swayamdipta, Chandra Bhagavatula, and Yejin Choi
- 01/2019 - **University of Washington, Computer Science & Engineering, Information and Communication Technology for Development (ICTD) Lab**
06/2020 Undergraduate Research Assistant, advised by Spencer Sevilla and Kurtis Heimerl

Awards & Honors

- 2021 **National Science Foundation Graduate Research Fellow** (\$138,000 over 3 years)
- 2020 **Computing Research Association Outstanding Undergraduate Researcher Honorable Mention**
- 2020 **UW Computer Science & Engineering Undergraduate Service Award**
- 2020 **Husky 100**
Award to recognize 100 UW students out of 55,000 students in honor of their outstanding contributions to the university.
- 2019 **Allen Institute of Artificial Intelligence Outstanding Engineer** (\$12,000)
- 2019 **Denice Dee Denton Scholarship** (\$1,000)
Departmental scholarship for students who show a commitment to a diverse student population.

Funding

- 2022 **IEEE/ACM International Conference on Software Engineering Student Mentoring Workshop Participant** (\$1,075)

2020 ***UW CSE SIGCSE Travel Award (\$500)***

2019 ***N2Women Mobicom Travel Grant (\$1,200)***

2019 ***UW CSE Grace Hopper Conference Travel Award (\$1,200)***

Peer-Reviewed Publications

* denotes equal contribution

Towards Mining OSS Skills from GitHub Activity.

Jenny T. Liang, Thomas Zimmermann, Denae Ford.

IEEE/ACM International Conference on Software Engineering: New Ideas and Emerging Results (ICSE NIER) 2022.
(26.8% acceptance rate)

An Exploratory Study of Sharing Strategic Programming Knowledge.

Maryam Arab, Thomas D. LaToza, **Jenny Liang**, Amy J. Ko.

ACM SIGCHI Conference on Human Factors in Computing Systems (CHI) 2022.
(12% acceptance rate)

HowToo: A Platform for Sharing, Finding, and Using Programming Strategies.

Maryam Arab, **Jenny Liang***, Yang Kyu Yoo*, Amy J. Ko, Thomas LaToza.

Visual Languages and Human-Centric Computing (VL/HCC) 2021.
(29.5% acceptance rate)

Whale Watching in Inland Indonesia: Analyzing a Small, Remote, Internet-Based Community Cellular Network.

Matthew Johnson, **Jenny Liang**, Michelle Lin, Sudheesh Singanamalla, Kurtis Heimerl.

The Web Conference (WWW) 2021.

Experiences: Design, Implementation, and Deployment of CoLTE, a Community LTE Solution.

Spencer Sevilla, Matthew Johnson, Pathirat Kosakanchit, **Jenny Liang**, Kurtis Heimerl.

ACM International Conference on Mobile Computing and Networking (Mobicom) 2019.
(18.9% acceptance rate)

An All-in-One Community LTE Network.

Spencer Sevilla, Matthew Johnson, Pathirat Kosakanchit, **Jenny Liang**, Kurtis Heimerl.

ACM International Conference on Mobile Computing and Networking (Mobicom) 2019.

Publication Pre-Prints

Understanding Skills for OSS Communities.

Jenny T. Liang, Thomas Zimmermann, Denae Ford.

Under submission.

Delphi: Towards Machine Ethics and Norms.

Liwei Jiang, Jena D. Hwang, Chandra Bhagavatula, Ronan Le Bras, Maxwell Forbes, Jon Borchardt, **Jenny Liang**, Oren Etzioni, Maarten Sap, Yejin Choi.

Under submission. [arXiv preprint arXiv:2110.07574](https://arxiv.org/abs/2110.07574).

Invited Talks

05/2022 ***Towards Mining OSS Skills from GitHub Activity. (Poster)***

IEEE/ACM International Conference on Software Engineering 2022, Pittsburgh, PA, USA.

09/2021 ***Understanding Skills for OSS Communities (Talk)***

Microsoft Research, Redmond, WA, USA.

- 05/2021 **Interpreting Hate Speech Classifiers: Does dataset label space matter?** (*Talk*)
UW Undergraduate Research Symposium, Seattle, WA, USA.
- 05/2020 **Explicit Programming Strategies** (*Talk*)
UW Undergraduate Research Symposium, Seattle, WA, USA.
- 09/2019 **An All-in-One Community LTE Network** (*Demo*)
ACM International Conference on Mobile Computing and Networking 2019, Los Cabos, Mexico.

Selected Press

- 10/2021 **WIRED.** "This Program Can Give AI a Sense of Ethics—Sometimes."
- 11/2021 **New York Times.** "Can a Machine Learn Morality?"

Teaching

- Undergrad. Teaching Assistant ***Building Academic Success through Bottom-Up Computing (Intro. to Computer Systems), CSE 391B.***
Sp 2020.
- Software Design & Implementation, CSE 331. Au 2020, Wi 2020***
Accelerated Introduction to Programming, CSE 143X. Au 2018.
Introduction to Programming II, CSE 143. Sp 2018, Wi 2019, Sp 2019.

Service

- Chair ***UW CSE Student Advisory Council (2019)***
Advocating for computer science students' needs and perspectives to faculty, staff, and administrators.
- Officer ***UW CSE Student Advisory Council (2018)***
- Student Volunteer ***UW Undergraduate Research Program (2020), UW CSE Student Advisory Council (2020)***

Industry Experience

- 2019 **Uber**, Developer Experience, Software Engineer Intern
- 2019 **Apple**, Mail Team, Software Engineer Intern
- 2019 **Microsoft**, Personal Bing, Software Engineer Intern
- 2018 **Microsoft**, Exchange Enterprise Cloud, Software Engineer Intern
- 2017 **Microsoft**, Workplace Analytics, Software Engineer Intern
- 2016 **Microsoft**, Office 365, Intern