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 Artificial Intelligence, 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 - 07/2021	*Microsoft Research, Software Analysis and Intelligence (SAINTES) Group* *Undergraduate Research Intern,* advised by Danae Ford Robinson and Thomas Zimmermann
06/2020 - 04/2021	*Allen Institute of Artificial Intelligence, Mosaic Team* *Undergraduate Research Intern*, advised by Swabha Swayamdipta, Chandra Bhagavatula, and Yejin Choi
01/2019 - 06/2020	*University of Washington, Computer Science & Engineering, Information and Communication Technology for Development (ICTD) Lab* *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)

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.

Pre-Prints

Understanding Skills of OSS Contributors on GitHub.
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.

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*