

Jenny T. Liang

Ph.D. Student

Carnegie Mellon University
School of Computer Science
Institute for Software Research

jtliang@andrew.cmu.edu
www.jennyliang.me
[@jennytliang](https://twitter.com/jennytliang)

I research ways to make programming better for everyone by studying developers, programming communities, and building intelligent tools that make building software easier.

Education

2021 - **Carnegie Mellon University, Pittsburgh, PA, USA**
Ph.D. in Software Engineering

2015 - 2021 **University of Washington, Seattle, WA, USA**
B.S. in Computer Science, B.S. in 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 - **Microsoft Research, Software Analysis and Intelligence (SAINTES) Group**
07/2021 Undergraduate Research Intern, advised by Denae Ford Robinson and Thomas Zimmermann

06/2020 - **Allen Institute of Artificial Intelligence, 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**
06/2020 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)
- 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.

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.

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.

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.

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. 2022.

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. 2022.

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