

# Jenny T. Liang

Ph.D. Student, School of Computer Science, Carnegie Mellon University

✉ [jtliang@cs.cmu.edu](mailto:jtliang@cs.cmu.edu) • 🌐 [jennyliang.me](http://jennyliang.me) • 📄 [liang-jenny](https://liang-jenny.github.io) • 🐦 [jennytliang](https://twitter.com/jennytliang)

## Education



---

- 2022 – **Carnegie Mellon University**, Pittsburgh, PA, USA  
Ph.D. in Software Engineering (GPA: 4.00)
- 2015 – 2021 **University of Washington**, Seattle, WA, USA  
B.S. in Computer Science, B.S. in Informatics (GPA: 3.77)

## Publications (\* denotes equal contribution, [Google Scholar](#))

---

### ***Refereed Conference Publications***

- ICSE'24 [11] **A Large-Scale Survey on the Usability of AI Programming Assistants: Successes and Challenges**  
[Jenny T. Liang](#), Chenyang Yang, Brad A. Myers  
*IEEE/ACM International Conference on Software Engineering 2024*. [[PDF](#)]
- ACL'23 [10] **NLPositionality: Characterizing Design Biases of Datasets and Models**  
Sebastin Santy\*, [Jenny T. Liang](#)\*, Ronan Le Bras, Katharina Reinecke, Maarten Sap  
*Annual Conference of the Association for Computational Linguistics 2023*. [[PDF](#)]  
 *Outstanding Paper Award*
- ICSE'23 [9] **A Qualitative Study on the Implementation Design Decisions of Developers**  
[Jenny T. Liang](#), Maryam Arab, Minhyuk Ko, Amy J. Ko, Thomas D. LaToza  
*IEEE/ACM International Conference on Software Engineering 2023*. [[PDF](#)]  
 *ACM SIGSOFT Distinguished Paper Award*
- ESEC/FSE'22 [8] **Understanding Skills of OSS Contributors on GitHub**  
[Jenny T. Liang](#), Thomas Zimmermann, Denae Ford  
*ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering 2022*. [[PDF](#)]
- ICSE-NIER'22 [7] **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 2022*. [[PDF](#)]
- CHI'22 [6] **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*. [[PDF](#)]
- VL/HCC'21 [5] **HowToo: A Platform for Sharing, Finding, and Using Programming Strategies**  
Maryam Arab, [Jenny Liang](#)\*, Yang Yoo\*, Amy J. Ko, Thomas D. LaToza  
*IEEE Symposium on Visual Languages and Human-Centric Computing 2021*. [[PDF](#)]
- WWW'21 [4] **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 2021*. [[PDF](#)]
- Mobicom'19 [3] **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 2019*. [[PDF](#)]

Mobicom'19 **Other Refereed Publications (e.g., demos, posters)**  
**[2] 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 2019.* [\[PDF\]](#)

ArXiv pre-print **In Submission**  
**[1] Delphi: Towards Machine Ethics and Norms** | [New York Times](#) | [WIRED](#)  
Liwei Jiang, Jena D. Hwang, Chandra Bhagavatula, Ronan Le Bras, [Jenny Liang](#), Sydney Levine, Jesse Dodge, Keisuke Sakaguchi, Maxwell Forbes, Taylor Sorenson, Jonathan Borchardt, Jack Hessel, Saadia Gabriel, Yulia Tsvetkov, Oren Etzioni, Maarten Sap, Regina Rini, Yejin Choi. [\[PDF\]](#)

## Research Experience

---

2022 – **Carnegie Mellon University**, Software & Societal Systems Department  
*Graduate Research Assistant*, advised by Brad A. Myers

Summer 2023 **Microsoft Research**, Software Analysis & Intelligence (SAINTES) Group  
*Research Intern*, advised by Thomas Zimmermann, Chris Bird, Carmen Badea, Denae Ford Robinson, Rob DeLine, & Nicole Forsgren

2021 – 2022 **Allen Institute for Artificial Intelligence**, Mosaic Team  
*Predoctoral Young Investigator*, advised by Ronan Le Bras & Yejin Choi

2020 – 2021 **University of Washington**, Information School, Code & Cognition Lab  
*Undergraduate Research Assistant*, advised by Amy J. Ko

Spring 2021 **Microsoft Research**, Software Analysis & Intelligence (SAINTES) Group  
*Undergraduate Research Intern*, advised by Denae Ford Robinson & Thomas Zimmermann

2020 – 2021 **Allen Institute for Artificial Intelligence**, Mosaic Team  
*Undergraduate Research Intern*, advised by Swabha Swayamdipta, Chandra Bhagavatula, & Yejin Choi

2019 – 2020 **University of Washington**, Computer Science & Engineering, Information and Communication Technology for Development (ICTD) Lab  
*Undergraduate Research Assistant*, advised by Spencer Sevilla & Kurtis Heimerl

## Awards & Honors

---

2023 **Outstanding Paper Award**, Annual Conference of the Association for Computational Linguistics 2023. *Awarded to less than 2% of papers accepted to the conference.*

2023 **ACM SIGSOFT Distinguished Paper Award**, IEEE/ACM International Conference on Software Engineering 2023. *Awarded to less than 5% of papers accepted to the conference.*

2021 **Outstanding Undergraduate Researcher Honorable Mention**, Computing Research Association

2020 **Undergraduate Service Award**, University of Washington, Computer Science & Engineering. *Award to recognize 3 UW CSE undergraduates out of 2,000 students for their outstanding service to the department.*

2020 **Husky 100**, University of Washington. *Award to recognize 100 UW students out of 55,000 students in honor of their outstanding contributions to the university.*

2020 **Outstanding Engineer Award**, Allen Institute for Artificial Intelligence (\$12,000)

## Fellowships

---

- 2023 **Ford Fellow Honorable Mention**, Ford Foundation
- 2021 **Graduate Research Fellow**, National Science Foundation (\$111,000 over 3 years)

## Presentations

---

### ***Talks***

- Jul 2023 **NLPositionality: Characterizing Design Biases of Datasets and Models**  
*Annual Conference of the Association for Computational Linguistics (ACL) 2023*, Toronto, Canada
- May 2023 **A Qualitative Study on the Implementation Design Decisions of Developers**  
*IEEE/ACM International Conference on Software Engineering (ICSE) 2023*, Melbourne, Australia
- Nov 2022 **Understanding Skills of OSS Contributors on GitHub**  
*ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE) 2022*, Singapore
- May 2022 **Towards Mining OSS Skills from GitHub Activity**  
*IEEE/ACM International Conference on Software Engineering (ICSE) 2022*, Pittsburgh, PA, USA
- Sep 2021 **Understanding Skills for OSS Communities** (Invited talk)  
*Microsoft Research*, Redmond, WA, USA
- May 2021 **Interpreting Hate Speech Classifiers: Does Dataset Label Space Matter?**  
*UW Undergraduate Research Symposium*, Seattle, WA, USA
- May 2020 **Explicit Programming Strategies**  
*UW Undergraduate Research Symposium*, Seattle, WA, USA

### ***Posters, Demos, & Other Talks***

- May 2023 **A Qualitative Study on the Implementation Design Decisions of Developers** (Poster)  
*IEEE/ACM International Conference on Software Engineering (ICSE) 2023*, Melbourne, Australia
- May 2022 **Towards Mining OSS Skills from GitHub Activity** (Poster)  
*IEEE/ACM International Conference on Software Engineering (ICSE) 2022*, Pittsburgh, PA, USA
- Oct 2019 **An All-in-One Community LTE Network** (Demo)  
*ACM International Conference on Mobile Computing and Networking (Mobicom) 2019*, Los Cabos, Mexico

## Selected Press

---

- Nov 2021 **New York Times**, [“Can a Machine Learn Morality?”](#)
- Oct 2021 **WIRED**, [“This Program Can Give AI a Sense of Ethics—Sometimes.”](#)

## Teaching

---

- Spring 2020 **Undergraduate Teaching Assistant**, University of Washington, Computer Science & Engineering  
[\*Building Academic Success through Bottom-Up Computing \(Introduction to Computer Systems\)\*](#), CSE 390B. Instructors: Dan Grossman, Aaron Johnston, Leslie Ikeda
- Winter 2020 **Undergraduate Teaching Assistant**, University of Washington, Computer Science & Engineering  
[\*Software Design & Implementation\*](#), CSE 331. Instructor: Hal Perkins
- Fall 2019 **Undergraduate Teaching Assistant**, University of Washington, Computer Science & Engineering  
[\*Software Design & Implementation\*](#), CSE 331. Instructor: Dan Grossman
- Winter 2019 **Undergraduate Teaching Assistant**, University of Washington, Computer Science & Engineering  
[\*Introduction to Programming II, CSE 143\*](#). Instructor: Hunter Schafer
- Fall 2018 **Undergraduate Teaching Assistant**, University of Washington, Computer Science & Engineering  
[\*Accelerated Introduction to Programming\*](#), CSE 143X. Instructor: Stuart Reges
- Spring 2018 **Undergraduate Teaching Assistant**, University of Washington, Computer Science & Engineering  
[\*Introduction to Programming II\*](#), CSE 143. Instructor: Stuart Reges

## Service

---

- Sub-reviewer FAccT (2023)
- Volunteer NAACL (2022), Mobicom (2019)
- Student Leader *Student Representative*, CMU Software Engineering Ph.D. Curriculum Committee (2022, 2023)  
*Student Representative*, CMU S3D Distinguished Speaker Series Selection Committee (2022, 2023)  
*Member*, CMU S3D Software Research Seminar Steering Committee (2022, 2023)  
*Member*, CMU SCS Dean's Advisory Committee (2022)  
*Member*, UW CSE Student Advisory Council (2021)  
*Undergraduate Research Leader*, UW Undergraduate Research Program (2021)  
*Vice Chair*, UW CSE Student Advisory Council (2020)  
*Officer*, UW CSE Student Advisory Council (2019)

## Industry Experience

---

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