

Jenny T. Liang

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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 – 2022 **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