# Jenny T. Liang

Ph.D. Student

*Carnegie Mellon University*
*School of Computer Science*
*Institute for Software Research*

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

## Education

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

2021 -

**University of Washington**, Seattle, WA, USA
B.S. in Computer Science, B.S. in Informatics (GPA: 3.77)

2015 - 2021

## Research Experience

**Allen Institute of Artificial Intelligence**, Mosaic Team
Predoctoral Young Investigator, advised by Ronan Le Bras and Yejin Choi

2021 -

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

2020 -

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

2021

**Allen Institute of Artificial Intelligence**, Mosaic Team
Undergraduate Research Intern, advised by Swabha Swayamdipta, Chandra Bhagavatula, and Yejin Choi

2020 - 2021

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

2019 - 2020

## Awards & Honors

**National Science Foundation Graduate Research Fellow** ($138,000 over 3 years)

2021

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

2020

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

2020

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

2020

**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.

2019

**UW Academy Scholar**
Early entrance to the University of Washington at 16 years old.

2015

# Funding

# Peer-Reviewed Publications (* denotes equal contribution)

**Understanding Skills of OSS Contributors on GitHub**
J.T. Liang, T. Zimmermann, D. Ford
ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE) 2022

**Towards Mining OSS Skills from GitHub Activity**
J.T. Liang, T. Zimmermann, D. Ford
IEEE/ACM International Conference on Software Engineering—New Ideas and Emerging Results (ICSE-NIER) 2022

**An Exploratory Study of Sharing Strategic Programming Knowledge**
M. Arab, T.D. LaToza, J. Liang, A.J. Ko
ACM SIGCHI Conference on Human Factors in Computing Systems (CHI) 2022

**HowToo: A Platform for Sharing, Finding, and Using Programming Strategies**
M. Arab, J. Liang*, Y.K. Yoo*, A.J. Ko, T.D. LaToza
Visual Languages and Human-Centric Computing (VL/HCC) 2021

**Whale Watching in Inland Indonesia: Analyzing a Small, Remote, Internet-Based Community Cellular Network**
M. Johnson, J. Liang, M. Lin, S. Singanamalla, K. Heimerl
The Web Conference (WWW) 2021

**Experiences: Design, Implementation, and Deployment of CoLTE, a Community LTE Solution**
S. Sevilla, M. Johnson, P. Kosakanchit, J. Liang, K. Heimerl
ACM International Conference on Mobile Computing and Networking (Mobicom) 2019

**An All-in-One Community LTE Network**
S. Sevilla, M. Johnson, P. Kosakanchit, J. Liang, K. Heimerl
ACM International Conference on Mobile Computing and Networking (Mobicom) 2019

# Preprints

**Delphi: Towards Machine Ethics and Norms**
L. Jiang, J.D. Hwang, C. Bhagavatula, R. Le Bras, M. Forbes, J. Borchardt, J. Liang, O. Etzioni, M. Sap, Y. Choi
Under submission. arXiv preprint arXiv:2110.07574.

# Invited Talks

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|---|---|
| **Towards Mining OSS Skills from GitHub Activity** (Poster)<br>IEEE/ACM International Conference on Software Engineering 2022, Pittsburgh, PA, USA. | 05/2022 |
| **Understanding Skills for OSS Communities** (Talk)<br>Microsoft Research, Redmond, WA, USA. | 09/2021 |

*Last updated:* June 16, 2022

**Interpreting Hate Speech Classifiers: Does dataset label space matter?** (Talk)  05/2021
UW Undergraduate Research Symposium, Seattle, WA, USA.

**Explicit Programming Strategies** (Talk)  05/2020
UW Undergraduate Research Symposium, Seattle, WA, USA.

**An All-in-One Community LTE Network** (Demo)  09/2019
ACM International Conference on Mobile Computing and Networking 2019, Los Cabos, Mexico.

## Selected Press

**WIRED.** "This Program Can Give AI a Sense of Ethics—Sometimes."  10/2021

**New York Times.** "Can a Machine Learn Morality?"  11/2021

## Teaching

**Undergraduate Teaching Assistant,** University of Washington, Computer Science & Engineering  2018 - 2020

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

## Service

**Student Leader,** UW Undergraduate Research Program.  2021

**Vice Chair** (2020)**, Officer** (2019)**, Representative** (2021)**,** UW CSE Student Advisory Council.  2019 - 2021
Advocating for computer science students' needs and perspectives to faculty, staff, and administrators.

## Industry Experience

**Uber**, Developer Experience, Software Engineer Intern  2019

**Apple**, Mail Team, Software Engineer Intern  2019

**Microsoft**, Personal Bing, Software Engineer Intern  2019

**Microsoft**, Exchange Enterprise Cloud, Software Engineer Intern  2018

**Microsoft**, Workplace Analytics, Software Engineer Intern  2017

**Microsoft**, Office 365, Intern  2016