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, \$\mathbb{G}\$ Google Scholar)

Refereed Conference Publications

ICSE'24 [12] A Large-Scale Survey on the Usability of AI Programming Assistants: Successes and Challenges

<u>Jenny T. Liang</u>, Chenyang Yang, Brad A. Myers

IEEE/ACM International Conference on Software Engineering 2024. [PDF]

ACL'23 [11] NLPositionality: Characterizing Design Biases of Datasets and Models

Sebastin Santy*, <u>Jenny T. Liang</u>*, Ronan Le Bras, Katharina Reinecke, Maarten Sap *Annual Conference of the Association for Computational Linguistics 2023.* [PDF]

界 Outstanding Paper Award

ICSE'23 [10] A Qualitative Study on the Implementation Design Decisions of Developers

<u>Ienny T. Liang</u>, Maryam Arab, Minhyuk Ko, Amy J. Ko, Thomas D. LaToza *IEEE/ACM International Conference on Software Engineering 2023*. [PDF]

TACM SIGSOFT Distinguished Paper Award

ESEC/FSE'22 [9] 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 [8] 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 [7] 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 [6] 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 [5] 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 [4] Experiences: Design, Implementation, and Deployment of CoLTE, a Community

LTE Solution

Spencer Sevilla, Matthew Johnson, Pathirat Kosakanchit, <u>Jenny Liang</u>, Kurtis Heimerl *ACM International Conference on Mobile Computing and Networking 2019*. [PDF]

Other Refereed Publications (e.g., demos, posters)

Mobicom'19 [3] An All-in-One Community LTE Network

Spencer Sevilla, Matthew Johnson, Pathirat Kosakanchit, <u>Jenny Liang</u>, Kurtis Heimerl *ACM International Conference on Mobile Computing and Networking 2019*. [PDF]

Pre-Prints

ArXiv pre-print [2] 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]

ArXiv pre-print

[1] LLMs as Workers in Human-Computational Algorithms? Replicating Crowdsourcing Pipelines with LLMs

Tongshuang Wu, Haiyi Zhu, Maya Albayrak, Alexis Axon, Amanda Bertsch, Wenxing Deng, Ziqi Ding, Bill Guo, Sireesh Gururaja, Tzu-Sheng Kuo, **Jenny T. Liang**, Ryan Liu, Ihita Mandal, Jeremiah Milbauer, Xiaolin Ni, Namrata Padmanabhan, Subhashini Ramkumar, Alexis Sudjianto, Jordan Taylor, Ying-Jui Tseng, Patricia Vaidos, Zhijin Wu, Wei Wu, Chenyang Yang. [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

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. Outstanding Engineer Award, Allen Institute for Artificial Intelligence (\$12,000) 2020 **Fellowships** 2023 Ford Fellow Honorable Mention, Ford Foundation Graduate Research Fellow, National Science Foundation (\$111,000 over 3 years) 2021 **Presentations** Talks NLPositionality: Characterizing Design Biases of Datasets and Models Jul 2023 Annual Conference of the Association for Computational Linguistics (ACL) 2023, Toronto, A Qualitative Study on the Implementation Design Decisions of Developers May 2023 IEEE/ACM International Conference on Software Engineering (ICSE) 2023, Melbourne, Understanding Skills of OSS Contributors on GitHub Nov 2022 ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE) 2022, Singapore **Towards Mining OSS Skills from GitHub Activity** May 2022 IEEE/ACM International Conference on Software Engineering (ICSE) 2022, Pittsburgh, PA, **Understanding Skills for OSS Communities** (Invited talk) Sep 2021 Microsoft Research, Redmond, WA, USA **Interpreting Hate Speech Classifiers: Does Dataset Label Space Matter?** May 2021 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 Towards Mining OSS Skills from GitHub Activity (Poster) May 2022 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

Undergraduate Service Award, University of Washington, Computer Science &

2020

Selected Press

Nov 2021 New York Times, <u>"Can a Machine Learn Morality?"</u>
Oct 2021 WIRED, <u>"This Program Can Give AI a Sense of Ethics—Sometimes."</u>

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 Undergraduate Teaching Assistant, University of Washington, Computer Science & Winter 2020 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 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