

Jessica Weiqian Shi

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Education

- 2021– **University of Pennsylvania**
Ph.D. Student in Computer and Information Science.
Advisors: Benjamin Pierce and Andrew Head.
- 2017–2021 **Massachusetts Institute of Technology**
B.S. in Mathematics and Computer Science.

Teaching

Penn:

- Fall 2025 **Co-Instructor**, Introduction to Human-Computer Interaction
Class size was around 120 students.
- Fall 2024 **Co-Instructor**, Introduction to Computer Programming
Class size was around 100 students.
- Spring 2024 **Instructor**, Introduction to Haskell
Class size was around ten students.
- Fall 2023 **Teaching Assistant**, Software Foundations
- Summer 2023 **Co-Instructor**, Software Foundations, Programming Languages REU
- Spring 2023 **Instructor**, Introduction to Haskell
- Fall 2022 **Teaching Assistant**, Software Foundations

MIT:

- Spring 2021 **Undergraduate Teaching Assistant**, Elements of Software Construction
- Fall 2020 **Undergraduate Teaching Assistant**, Elements of Software Construction
- Spring 2020 **Lab Assistant**, Elements of Software Construction
- Fall 2019 **Lab Assistant**, Introduction to Computer Science
- Spring 2019 **Lab Assistant**, Introduction to Computer Science

Other:

- Summer 2019 **Junior Faculty**, Hampshire College Summer Studies in Mathematics

Publications

- OOPSLA'25 *QED in Context: An Observation Study of Proof Assistant Users*
Jessica Shi, Cassia Torczon, Harrison Goldstein, Benjamin Pierce, Andrew Head.
- PLATEAU'25 *Designing Proof Deautomation for Rocq*
Jessica Shi, Cassia Torczon, Harrison Goldstein, Andrew Head, Benjamin Pierce.
- ICFP'24 *Etna: An Evaluation Platform for Property-Based Testing (Experience Report)*
Jessica Shi, Alperen Keles, Harrison Goldstein, Benjamin Pierce, Leonidas Lampropoulos.
- CHI'25 *FreeForm: Flexibly Augmenting Formulas with Synchronized Markup and Graphical Edits*
Jeffrey Tao, Litao Yan, Jessica Shi, Mia Ginsberg, Andrew Head.
- POPL'24 *Internalizing Indistinguishability with Dependent Types*
Yiyun Liu, Jonathan Chan, Jessica Shi, Stephanie Weirich.

Honors

- 2024–25 CETLI Graduate Fellowship for Teaching Excellence, University of Pennsylvania
- 2024 Outstanding Teaching Award, Penn Engineering