

Programming for Everyone

Developers, Scientists, and Creators of Tomorrow

Publications in This Talk

- “Validating AI-Generated Code with Live Programming”, ACM CHI 2024
- “How Scientists Use Jupyter Notebooks: Goals, Quality Attributes, and Opportunities”, IEEE/ACM ICSE 2025
- “Unfold: Enabling Live Programming for Debugging GUI Applications”, IEEE VL/HCC 2024
- “Investigating the Impact of Using a Live Programming Environment in a CS1 Course”, ACM SIGCSE 2022
- “Z3Guide: A Scalable, Student-Centered, and Extensible Educational Environment for Logic Modeling”, MSR TR 2025

Other Publications

- “Synthesizing Composite Hierarchical Structure from Symbolic Music Corpora”, IJCAI 2025
- “How do Haskell programmers debug?”, PLATEAU 2023

Collaborators

- Sorin Lerner (advisor), Michael Coblenz, Nadia Polikarpova, Gerald Soosai Raj - UCSD CSE
- Philip Guo, Jim Hollan, Haijun Xia - UCSD Design Lab
- Nikolaj Bjørner, Jonathan "Peli" de Halleux - Microsoft Research
- **8 undergraduate students** directly mentored - UCSD CSE

