

Harrison Goldstein

harrisingoldste.in

hgo@seas.upenn.edu ✉

@hgoldstein95 🐦

Publications

Papers

*Do Judge a Test by Its Cover:
Combining Combinatorial and
Property Based Testing* **ESOP 2021**

*Programming Language Support
for Natural Language Interaction* **SysML 2018**

Other

Ungenerators (Poster) **ICFP 2021**

*Conferences after COVID:
An Early-Career Perspective* **SIGPLAN
PL Perspectives**

*Algebraic Combinatorial
Testing (Poster)* **POPL 2020**

Leadership

Editor in Chief (Ongoing) **PLClub Blog**
Social Chair **POPL 2021**
AV Coordinator **ICFP 2020**
Research Mentor **DeepSpec REU**
Mentor **SIGPLAN-M**

Research Interests

Property-Based Testing

QuickCheck, Combinatorial Testing

Functional Programming

Monads, Continuations, Haskell

Type Systems

Refinement Types, Bidirectional Type Checking

Formal Languages

Brzowski Derivatives, Language Models

My love for learning underpins almost everything that I do—I take every chance I can to learn and grow. I am driven, focused, and goal-oriented, and I bring those values to all of the work that I do.

In my free time I love to cook, stream TV and movies, and spend time with friends.

Please reach out via email or Twitter for references or other information.

Education

University of Pennsylvania **Present**

Pursuing PhD in Computer Science

Cornell University **Fall 2014 - Spring 2019**

BS in Computer Science **GPA 4.08**

MEng in Computer Science **GPA 4.02**

Teaching

Head TA (Fall 2020 and 2021) **Penn CIS 552**

Head TA (Spring 2021) **Penn CIS 810**

Head TA (Fall 2017) **Cornell CS 3110**

Head TA (Spring 2017) **Cornell ELCP**

TA (Fall 2016) **Cornell CS 2112**

Work Experience

Amazon Web Services **Summer 2020**
Research Intern

Expanded and formalized a model of AWS access policies that captured the full complexity of the authorization system.

Explored an embedding of the model into SMT, to be used in the Zelkova tool.

Broadway Technology **Summer 2017**
Software Engineer **- Summer 2018**

Collaborated throughout the organization on tools that streamlined Broadway's operations.

Led a number of projects, as an internal consultant, project manager, and developer.

SIG, LLP **Summer 2016**
Technology Intern

Last Second Beach, LLC **Fall 2015**
Chief Technology Officer **- Spring 2016**

Honors and Awards

Certification in Engineering Leadership **Cornell ELCP**

1st Place Business Plan Competition **Cornell SHA**

Eagle Scout **Boy Scouts of America**