Harrison Goldstein

harrisongoldste.in

hgo@seas.upenn.edu ✉

@hgoldstein95 🐦

Publications

Papers

Do Judge a Test by Its Cover: Combining Combinatorial and Property Based Testing — **ESOP '21**

Programming Language Support for Natural Language Interaction — **SysML '18**

Other

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

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

Ungenerators (Poster) — **ICFP 2021**

Leadership

Editor in Chief	**PLClub Blog**
Social Chair	**POPL '21**
AV Coordinator	**ICFP '20**
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
Brzozowski 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 '14 - Spring '19**
BS in Computer Science	GPA 4.08
MEng in Computer Science	GPA 4.02

Teaching

Head TA (1 Semester)	**Cornell CS 3110**
Head TA (2 Semesters)	**Penn CIS 552**
Head TA (1 Semester)	**Penn CIS 810**
Head TA (1 Semester)	**Cornell ELCP**
TA	**Cornell CIS 2112**

Work Experience

Amazon Web Services — **Summer '20**
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 Technolgy — **Summer '17 - Summer '18**
Software Engineer

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 '16**
Technology Intern

Last Second Beach, LLC — **Fall '15 - Spring '16**
Cheif Technology Officer

Honors and Awards

Certification in Engineering Leadership	**Cornell ELCP**
1st Place Business Plan Competition	**Cornell SHA**
Eagle Scout	**Boy Scouts of America**