Harrison Goldstein

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Present

GPA 4.08

GPA 4.02

Fall 2014 - Spring 2019

harrisongoldste.in

Publications

Papers

Parsing Randomness **OOPSLA 2022**

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: **SIGPLAN** An Early-Career Perspective **PL Perspectives**

Algebraic Combinatorial Testing (Poster)

POPL 2020

Teaching

Education

Cornell University

BS in Computer Science

MEng in Computer Science

University of Pennsylvania

Pursuing PhD in Computer Science

Fall 2020 and 2021 Penn CIS 552, Head TA Penn CIS 810, Head TA Spring 2021 Fall 2017 Cornell CS 3110, Head TA Cornell ELCP, Head TA Spring 2017 Cornell CS 2112, TA Fall 2016

Leadership

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

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.

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 Technolgy

Software Engineer

Summer 2017 - 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

Cheif 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