

NOAM ZILBERSTEIN

<https://cs.cornell.edu/~noamz> ♦ noamz@cs.cornell.edu

EDUCATION

Cornell University
Doctor of Philosophy
Computer Science

August 2021 - present

University of Pennsylvania
Bachelor of Science in Engineering, *summa cum laude*
Computer and Information Science

August 2011 - May 2015
Overall GPA: 3.93

HONORS AND AWARDS

Computer Science Academic Award
University of Pennsylvania

May 2015

Computer and Information Science Senior Design Third Prize
University of Pennsylvania

May 2015

PUBLICATIONS

- [1] Noam Zilberstein. Eliminating Bugs with Dependent Haskell. *In Proceedings of the 13th ACM SIGPLAN International Haskell Symposium (Haskell '20), August 27, 2020.*
<https://doi.org/10.1145/3406088.3409020>

INVITED TALKS

- [1] Eliminating Bugs with Dependently Typed Haskell. *YOW! Lambda Jam, May 2021.*

WORK EXPERIENCE

Staff Software Engineer
Facebook Programming Languages and Runtimes

May 2020 - September 2021

Software Engineer/Senior Engineer/Staff Engineer
Facebook Integrity Infrastructure

July 2015 - May 2020

Software Engineering Intern
Facebook

May 2014 - August 2014

TEACHING

Teaching Assistant
Cornell University

August 2021 - present

- **CS 4110: Programming Languages and Logics**
Fall 2021

Course Instructor, CIS 194: Introduction to Haskell
University of Pennsylvania

January 2015 - May 2015

Created lesson plans and homework assignments and supervised two teaching assistants.

<https://www.seas.upenn.edu/~cis194/spring15/>

Teaching Assistant

University of Pennsylvania

August 2012 - May 2015

Held recitations and office hours. Graded homework and exams.

- **CIS 320: Algorithms**
Spring 2015
- **CIS 121: Programming Languages and Techniques II: Algorithms and Data Structures**
Fall 2014
- **CIS 371: Computer Organization and Design**
Spring 2014
- **CIS 261: Discrete Probability, Stochastic Processes, and Statistical Inference**
Fall 2013
- **CIS 120: Programming Languages and Techniques I**
Fall 2012, Spring 2013

ACADEMIC ACTIVITIES

- **Information Flow Control Reading Group**, *Facebook*, 2020
- **Student Volunteer**, *55th Annual Symposium on Foundations of Computer Science (FOCS'14)*
- **Types and Programming Languages Reading Group**, *University of Pennsylvania*, 2014

OPEN SOURCE PROJECTS

- **The Hack Programming Language**, A typechecker and compiler for Hack, Facebook's language for server side programming
<https://github.com/facebook/hhvm>
- **Thrift for Haskell**, A compiler and toolchain for automatic data serialization and remote procedure calls. Built using dependent types for added correctness guarantees.
<https://github.com/facebookincubator/hsthrift>
- **Haxl**, A Haskell library for automatic, concurrent data fetching
<https://github.com/facebook/Haxl>