

# Justin Lubin

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Curriculum Vitae, October 2021

## Research Vision

Computation is empowering, and programming languages are how we harness it. To that end, I am interested in studying the human aspect of programming to design programming languages, environments, and tools that are more accessible, intuitive, and powerful.

**Primary research areas:** programming languages, human-computer interaction

## Education

### University of California, Berkeley

2020–

PhD in Computer Science

Advisor: Sarah E. Chasins

### University of Chicago

2016–2020

BS in Computer Science (Honors), BS in Mathematics, Minor in Music

GPA: 3.97/4.00 (*summa cum laude*)

Advisor: Ravi Chugh

Honors Thesis: *Forging Smyth: The Impl. of Program Sketching with Live Bidirectional Evaluation*

## Internships

### Carnegie Mellon University

2018

Advisors: Jonathan Aldrich (CMU), Alex Potanin (Victoria University of Wellington)

## Peer-Reviewed Full Publications

### How Statically-Typed Functional Programmers Write Code

OOPSLA 2021

[Justin Lubin](#) and Sarah E. Chasins

In *Proceedings of the ACM on Programming Languages (PACMPL)*, Issue OOPSLA.

### Program Sketching with Live Bidirectional Evaluation

ICFP 2020

[Justin Lubin](#), Nick Collins, Cyrus Omar, and Ravi Chugh.

In *Proceedings of the ACM on Programming Languages (PACMPL)*, Issue ICFP.

### Sketch-n-Sketch: Output-Directed Programming for SVG

UIST 2019

Brian Hempel, [Justin Lubin](#), and Ravi Chugh.

In *Proceedings of the ACM Symposium on User Interface Software and Technology*.

### Deuce: A Lightweight User Interface for Structured Editing

ICSE 2018

Brian Hempel, [Justin Lubin](#), Grace Lu, and Ravi Chugh.

In *Proceedings of the International Conference on Software Engineering*.

## Peer-Reviewed Workshop Publications

**Type-Directed Program Transformations for the Working Functional Programmer** PLATEAU 2019  
Justin Lubin and Ravi Chugh.  
In *Proceedings of the Workshop on Evaluation and Usability of Programming Languages and Tools*.

## Teaching

### University of California, Berkeley

CS 164: Programming Languages and Compilers (Head TA) Fall 2021

### University of Chicago

CMSC 22300: Functional Programming (TA) Spring 2020

CMSC 16100: Honors Introduction to Programming I (Grader) Fall 2018

## Honors

### Fellowships

NSF Graduate Research Fellowship (GRFP) 2020

### Student Research Competitions

3<sup>rd</sup> Place Graduate at CHI, *How Statically-Typed Functional Programmers Author Code* 2021

1<sup>st</sup> Place Undergraduate at SPLASH, *Approximating Polymorphic Effects with Capabilities* 2018

### Honor Societies

Sigma Xi 2020–

Phi Beta Kappa Honor Society 2019–

### Academic Honors

Enrico Fermi Scholar (University of Chicago) 2020

Harper Award (University of Chicago) 2020

Student Marshal (University of Chicago) 2019–2020

Dean's List (University of Chicago) 2016–2020

## Mentorship

### Advisees

Fayaz Shaik (Undergraduate) 2021–

Dhanya Jayagopal (Undergraduate, MS) 2020–

## External Service

**Reviewer**, Symposium on User Interface Software and Technology (UIST) 2021

## Internal Service

**Organizer**, Berkeley Programming Systems Seminar

2021–2022

## Community Service

**Co-organizer**, #ShutdownPL

2020–

Anti-racist organization to identify, discuss, and organize around opportunities for positive, anti-racist change in the programming languages community.