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.*

Honors

Fellowships

NSF Graduate Research Fellowship (GRFP)   2020

Student Research Competitions

3$^{\text{rd}}$ Place Graduate at CHI, *How Statically-Typed Functional Programmers Author Code*   2021
1$^{\text{st}}$ 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

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

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–
Organization to identify, discuss, and organize around opportunities for anti-racist change in the programming languages community.