

# Michael B. James

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## Research Interests

I am interested in *Programming Languages* in the context of *Program Synthesis* and *Human-Computer Interactions*. Languages and their tools are how programmers bridge the gap between their goal and their system's abilities. I want to build systems to help programmers, expert and novice alike, bridge that gap to complete their task faster, safer, and more simply.

## Education

### University of California, San Diego

Ph.D., Computer Science, 2018-*present*.

Advisor: Nadia Polikarpova

Fields: Programming Languages, Program Synthesis

### Tufts University

B.S., Computer Science, 2015.

## Publications

**Digging for Fold: Synthesis-aided API Discovery for Haskell.** Michael B. James, Zheng Guo, Ziteng Wang, Shivani Dosh, Hila Peleg, Ranjit Jhala, Nadia Polikarpova *OOPSLA*. November 2020.

**Program Synthesis by Type-Guided Abstraction Refinement.** Zheng Guo, Michael B. James, David Justo, Jiaxiao Zhou, Ziteng Wang, Ranjit Jhala, Nadia Polikarpova *47th ACM SIGPLAN Symposium on Principles of Programming Languages (POPL 2020)*. January 2020.

## Experience

### Software Engineer II

Jana Mobile, Boston, Massachusetts, Feb 2017 - Jun 2018

### Software Engineer I

Uber Technologies, San Francisco, Jul 2015 - Dec 2016

### Elm Intern

Prezi, Budapest, Hungary, Summer 2014

Mentor: Evan Czaplicki

## Talks

### Digging for Fold: Synthesis-aided API Discovery for Haskell

2020 - Location: OOPSLA 2020 (virtual)

### Component-based Type Driven Synthesis

2019 - Location: University of California, San Diego

## Teaching

### Graduate Teaching Assistant

UC San Diego, Fall 2019

Supervisor: Nadia Polikarpova

Course: undergraduate intro-to-programming languages course.

### Undergraduate Teaching Assistant

Tufts University, Fall 2014

Supervisor: Kathleen Fisher

Course: undergraduate intro-to-programming-languages