

Michael B. James

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Research Interests

I am interested in *Program Synthesis* and *Language Design*. *Programming Languages* are an interface to express intent. I want to build systems and tools to help programmers, expert and novice alike, complete their task faster and safer.

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

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

Talks

2020 **Digging for Fold: Synthesis-aided API Discovery for Haskell**

Location: OOPSLA 2020 (virtual)

2019 **Component-based Type Driven Synthesis**

Location: University of California, San Diego