

Krystal Maughan

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Blog: <https://kammitama5.github.io/>

Research Interests: Type Theory, Refinement Types, Dependent Types, Debugging Systems, Browser Optimization and Security

EDUCATION

PhD Candidate (Fall) **2019-present**

Area: Programming Languages Research

Compilers, Haskell, Neural Networks

Ithaca College (one semester at Cornell University) **2004-2008**

Degree: Bachelor's (BFA 2008)

Area: Cinema, Film Studies

Glendale Community College **2015-2019**

Degree : Associate's

Advisor: Kristina Shroyer, Tony Biehl

Subjects: Discrete Structures, Data Structures (C++), Intro to Algorithms (Java), C++, Advanced C++, Programming Languages (implementing features to made-up language called "Minus Minus")

Skills: Haskell, Python, C++, LaTeX, Jupyter, Git

RELEVANT WORK EXPERIENCE

Mercury (San Francisco) **2019**

Wrote Haskell back-end application for stealth fintech startup as software intern

Used Haskell, Stack, Yesod, Nix, Postgres. Supervised by Max Tagher. (Summer)

Apple, Inc. (Sunnyvale) **2019**

Software Intern (Spring)

Google Summer of Code for Haskell.org (remote) **2018**

Wrote Debugging tools for CodeWorld¹,

A Google project sponsored by Haskell.org, under

Supervision of Chris Smith (Google) and

Gabriel Gonzalez (Awake Security).

Used Haskell, GHCJS, Cabal.

¹ CodeWorld: <https://github.com/google/codeworld/commits?author=kammitama5>

Mozilla, Increasing Rust's Reach (remote)	2018
<i>Worked on Implied Boolean Predicates², For Command line tools in Rust, under Supervision of Aaron Power and Ed Page. Worked in Rust, used Travis Continuous Integration</i>	

Internet Brands, (El Segundo)	2018
<i>Worked as automation tester, using Selenium, Python, JIRA, Confluence</i>	

MERIT-BASED GRANTS / SCHOLARSHIPS

<i>Helium Grant (chosen as 1 of 11 out of 700)</i>	2018
<i>EaRI Career Scholarship, (R Data Science Scholarship) - declined offer</i>	2018
<i>Udacity Bertelsmann Data Science Scholarship - declined offer</i>	2017
<i>AT and T Aspire to Tech grant Winner</i>	2017
<i>NCAS Workshop participant (NASA Community College Aerospace Scholars)</i>	2016
<i>Who's Who/ Peggy Williams Memorial Scholarship/ Best BFA Award (Best of Major)</i>	2008

OTHER GRANTS/ FELLOWSHIPS

<i>MSRI (Mathematical Sciences Research Institute) Grants to attend Connections for Women:</i>	2019
<ul style="list-style-type: none"> - <i>Derived Algebraic Geometry, Birational Geometry and Moduli Spaces workshop</i> - <i>Introductory Workshop: Derived Algebraic Geometry and Birational Geometry And Moduli Spaces</i> 	
<i>NASA L'Space Academy (virtual student team & mentorship with NASA scientists)</i>	2019
<i>Racket Summer School (National Science Foundation Grant)</i>	2018
<i>PLMW (Programming Languages Mentorship Workshop)</i>	2018
<i>ICFP (International Conference Functional Programming)</i>	
<i>PLMW(Programming Languages Mentorship Workshop)</i>	2018
<i>PLDI (Programming Languages Design and Implementation)</i>	
<i>OPLSS (Oregon Programming Languages Summer School Grant) - declined offer</i>	2018

Conference Grants to attend:
*RustConf 2018, LambdaConf 2017/2018, Strange Loop 2017, Software Craftsmanship
North America (SCNA), Clojure Conj 2016/2017, Clojure West 2017, Chrome Dev Summit 16-18*

SERVICE

<i>Student volunteer, ICFP (International Conference Functional Programming)</i>	2018
<i>Student volunteer, PLDI (Programming Languages Design and Implementation)</i>	2018
<i>Student volunteer, POPL (Principles of Programming Languages)</i>	2018

PUBLICATIONS / POSTS / OTHER

<i>Google Summer of Code "Breaking the Time-Space Barrier with Haskell"</i>	2018
<i>Member of ACM Climate Wikipedia Team (updating wiki pages, research)</i>	2019

² Assert Predicates.rs: <https://github.com/assert-rs/predicates-rs/commits?author=kammitama5>
Assert Cmd.rs: https://github.com/assert-rs/assert_cmd/commits?author=kammitama5