

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

Ithaca College (one semester at Cornell University)

2004-2008

Degree: Bachelor's (BFA 2008)

Area: Cinema, Film Studies

Minor: Art History, Theatre

Advisors: Elisabeth Nonas, Jennifer Jolly

Glendale Community College

2015-Present

Degree : Associate's

Area: Computer Science

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++, Rust, Racket, 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
Worked on Implied Boolean Predicates ² , For Command line tools in Rust, under Supervision of Aaron Power and Ed Page. Worked in Rust, used Travis Continuous Integration	

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

MERIT-BASED GRANTS / SCHOLARSHIPS

Helium Grant (chosen as 1 of 11 out of 700)	2018
EaRI Career Scholarship, (R Data Science Scholarship) - declined offer	2018
Udacity Bertelsmann Data Science Scholarship - declined offer	2017
AT and T Aspire to Tech grant Winner	2017
NCAS Workshop participant (NASA Community College Aerospace Scholars)	2016
Who's Who/ Peggy Williams Memorial Scholarship/ Best BFA Award (Best of Major)	2008
Presidential Merit Scholarship	2004-2008

OTHER GRANTS/ FELLOWSHIPS

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

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

PUBLICATIONS / POSTS / OTHER

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