

Krystal Maughan

Krystal.maughan@gmail.com

Github: <https://github.com/kammitama5>

Apt 9, 11133 Hesby Street, Los Angeles, CA 91601, Tel: 607.342. 6970

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

Research Interests: Programming Languages, Data Privacy, Debugging Systems, Neural Networks

EDUCATION

University of Vermont **2019-present**
PhD Candidate (Fall)

Area: Programming Languages Research

Compilers, Haskell, Data Privacy, 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, Bash, 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
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

OTHER GRANTS/ FELLOWSHIPS

Cornell Number Theory Conf Travel Award	2019
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