

# 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 CodeWorld<sup>1</sup>,

A Google project sponsored by Haskell.org, under

Supervision of Chris Smith (Google) and

Gabriel Gonzalez (Awake Security).

Used Haskell, GHCJS, Cabal.

---

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

<b>Mozilla, Increasing Rust's Reach (remote)</b>	<b>2018</b>
Worked on Implied Boolean Predicates <sup>2</sup> , For Command line tools in Rust, under Supervision of Aaron Power and Ed Page. Worked in Rust, used Travis Continuous Integration	

<b>Internet Brands, (El Segundo)</b>	<b>2018</b>
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 Conference Grant	2019
MSRI (Mathematical Sciences Research Institute) Grants to attend Connections for Women:	2019
<ul style="list-style-type: none"> <li>- Derived Algebraic Geometry, Birational Geometry and Moduli Spaces workshop</li> <li>- Introductory Workshop: Derived Algebraic Geometry and Birational Geometry And Moduli Spaces</li> </ul>	
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 " <a href="#">Breaking the Time-Space Barrier with Haskell</a> "	2018
Member of ACM Climate Wikipedia Team (updating wiki pages, research)	2019

---

<sup>2</sup> 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](https://github.com/assert-rs/assert_cmd/commits?author=kammitama5)