

# Krystal Maughan

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

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*Research Interests: Programming Languages, Data Privacy, Compilers, Neural Networks*

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## 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, LaTeX, Jupyter, Git

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## 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.

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

<b>Mozilla, Increasing Rust's Reach (remote)</b>	<b>2018</b>
<i>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</i>	

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

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### **MERIT-BASED GRANTS / SCHOLARSHIPS**

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

### **OTHER GRANTS/ FELLOWSHIPS**

<i>ICERM (Brown University) Encrypted Search Workshop Grant (Lodging provided)</i>	<b>2019</b>
<i>Cornell Number Theory Conference Grant (Lodging provided)</i>	<b>2019</b>
<i>MSRI (Mathematical Sciences Research Institute) Grants to attend</i>	<b>2019</b>

*Connections for Women:*

- *Derived Algebraic Geometry, Birational Geometry and Moduli Spaces workshop*
- *Introductory Workshop: Derived Algebraic Geometry and Birational Geometry  
And Moduli Spaces*

<i>NASA L'Space Academy (virtual student team &amp; mentorship with NASA scientists)</i>	<b>2019</b>
<i>Racket Summer School (National Science Foundation Grant)</i>	<b>2018</b>
<i>PLMW (Programming Languages Mentorship Workshop)</i>	<b>2018</b>
<i>ICFP (International Conference Functional Programming)</i>	
<i>PLMW(Programming Languages Mentorship Workshop)</i>	<b>2018</b>
<i>PLDI (Programming Languages Design and Implementation)</i>	
<i>OPLSS (Oregon Programming Languages Summer School Grant) - declined offer</i>	<b>2018</b>

*Developer 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*

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### **SERVICE**

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

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### **PUBLICATIONS / POSTS / OTHER**

<i>Google Summer of Code "<a href="#">Breaking the Time-Space Barrier with Haskell</a>"</i>	<b>2018</b>
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<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)