

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++), Advanced Data Structures (C++), Intro to Algorithms (Java), C++, Advanced C++, Programming Languages (implementing features to made-up language called "Minus Minus"), Assembly I*

Skills: *Haskell, Rust, C++, Python, 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.

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.

Mozilla, Increasing Rust's Reach (remote)

2018

Worked on Implied Boolean Predicates²,

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

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

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 2019

Connections for Women:

- 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

TALKS

Lightning talk on Denotational Semantics, 3rd Anniversary of LearnTeachCode 2018

PUBLICATIONS / POSTS / OTHER

Google Summer of Code ["Breaking the Time-Space Barrier with Haskell"](#) 2018

40th Anniversary NASA Tech briefs "Why I chose to become an Engineer"

Member of ACM Climate Wikipedia Team (updating wiki pages, research) 2019