Krystal Maughan

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Github: https://github.com/kammitama5

Tel: 607.342. 6970

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

Research Interests: Differential Privacy, Compilers, Neural Networks

EDUCATION

University of Vermont PhD Candidate (Fall)

2019-present

Area: Programming Languages Research

Data Privacy, Programming Languages, Neural Networks

Skills: Haskell, Python, LaTeX, Jupyter, Git

RELEVANT WORK EXPERIENCE

Teacher's Assistant, Fall 2019 (Vermont)

2019

Intro to Compilers, Intro to Data Privacy (taught by Joseph P. Near)

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.

Mozilla, Increasing Rust's Reach (remote)

2018

Worked on Implied Boolean Predicates²,

For Command line tools in Rust, under

Supervision of Aaron Power and Ed Page.

Worked in Rust, used Travis Continuous Integration

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

Helium Grant (chosen as 1 of 11 out of 700) 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 DTHER GRANTS/ FELLOWSHIPS Simons Institute (Berkeley) Error-Correcting Codes and High-Dimensional Expansion Boot Camp (attendee) CERM (Brown University) Encrypted Search Workshop Grant (Lodging provided) 2019 Cornell Number Theory Conference Grant (Lodging provided) 2019 Cornell Number Theory Conference Grant (Lodging provided) 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 Proposal/Feview Academy (patentable research proposal for funding) 2019 PLAW (Programming Languages Mentorship with NASA scientists Level 1) 2019 PLAW (Programming Languages Mentorship Workshop) 2018 PLDH (Programming Languages Mentorship Workshop) 2018 PLDH (Programming Languages Mentorship Workshop) 2018 Developer Conference Grants to attend: Twillio's Signal Conf 2019, Curry On! 2019, RustConf 20 LambdaConf 2017/2018, Strange Loop 2017, Software Craftsmanship North America (SCNA), Clojuc Conj 2016/2017, Clojure West 2017, Chrome Dev Summit 16-18, Google IO 2016-2019 SERVICE Student volunteer, ICFP (International Conference Functional Programming) 2018 Student volunteer, PDDI (Programming Languages) Design and Implementation) 2018 Student volunteer, POPL (Principles of Programming Languages) 2018 MENTORSHIP Google Developer Student Club Lead (for University of Vermont) 2019 PUBLICATIONS / POSTS Google Summer of Code "Breaking the Time-Space Barrier with Haskell" 2019 Publicational Semantics" (2 minute Lightning Talk for Meetup group)		
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