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
Area: Programming Languages Research
Data Privacy, Programming Languages, Neural Networks

Skills: Haskell, Python, LaTeX, Jupyter, PySpark, Git

RELEVANT WORK EXPERIENCE

Autodesk (Pier 9, San Francisco) Software Engineering for Forge Engineering Project Supervised by Manager Barry Tsai (Summer for Code 2040 Fellowship)	2020
Teacher's Assistant, Fall 2019 (Vermont)	2019

Programming with Matlab (taught by Radhakrishna Dasari)
Data Privacy (taught by Joe Near)

Mercury (San Francisco) Wrote Hackell back and application for stealth fintech startup as software intern

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) Software Intern (Spring) 2019

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		
MERIT-BASED GRANTS / SCHOLARSHIPS		
Code2040 2020 Fellow (1 of 80)	2019	
Udacity Technology Scholarship powered by Bertelsmann	2019	
Helium Grant (chosen as 1 of 11 out of 700)	2018	
EaRl 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		
Neurips Conference Travel Grant (includes free registration)	2019	
Sage-Days-104 (St. Louis University): To work on SageMath Software	2019	
Simons Institute (Berkeley) Error-Correcting Codes and High-Dimensional	2019	
Expansion Boot Camp (attendee)		
ICERM (Brown University) Encrypted Search Workshop Grant (Lodging provided)	2019	
Cornell Number Theory Conference Grant (Lodging provided)	2019	
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 NPWEE Concept Proposal writing programme participant	2019	
NASA L'Space Proposal/Review Academy (patentable research proposal for funding)	2019	
NASA L'Space Academy (virtual team & mentorship with NASA scientists Level 1)	2019	
Racket Summer School (National Science Foundation Grant)	2018-2019	
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	

Developer Conference Grants to attend: Twilio's Signal Conf 2019, Curry On! 2019, 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, Google IO 2016-2019

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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

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