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	2019-present
Area: Programming Languages Research	
Data Privacy, Programming Languages, Neural Networks	
Skills: Haskell, Python, LaTeX, Jupyter, PySpark, PyTorch, Git	
RELEVANT WORK EXPERIENCE	
Autodesk (Pier 9, San Francisco)	2020
Software Engineering for Forge Engineering Project	
Supervised by Manager Barry Tsai (Summer for Code 2040 Fellowship)	
Teacher's Assistant, Fall/Spring 2019-2020 (Vermont)	2019-2020
Compiler Construction with Haskell (taught by Joe Near)	2020
Advanced Web Design (taught by Bob Erickson)	
Programming with Matlab (taught by Radhakrishna Dasari)	2019
Data Privacy with Jupyter, Python (taught by Joe Near)	
Graduate Writing Consultant, Fall 2020 (Vermont)	2020
Writing Mentor and Consultant for graduate students	
Technical Writing Consultant for fields as broad as Materials Science to History	
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, Wrote code for Security and Cloud at Scale (Spring)	
Google Summer of Code for Haskell.org (remote)	2018
Wrote Debugging tools for CodeWorld ¹ ,	
A Google project sponsored by Haskell.org, under	
Supervision of Chris Smith (Google) and	

 $^{^{1} \} CodeWorld: \ \underline{https://github.com/google/codeworld/commits?author=kammitama5}$

Gabriel Gonzalez (Awake Security).

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	
NCWIT Collegiate Award Finalist	2019
Code2040 2020 Fellow (1 of 80)	2019
WiCyS Student Scholarship (Women in Cybersecurity)	2019
Udacity Technology Scholarship (Al track): Intro to Deep Learning with Pytorch	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	
RWC2020 (Real World Crypto: registration, flight, lodging) Grant via IACR	2020
CRA-WP Grad Cohort for Women (covers flight, registration, lodging)	2019
CRA-WP Grad Cohort for Underrepresented Minorities	
(covers flight, registration, lodging)	2019
Neurips Conference Travel Grant (includes free registration)	2019
Sage-Days-104 : To work on SageMath Software: Arithmetic Dynamics	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)	

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

Developer Conference Grants to attend:

TechTogetherBoston 2020, 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

AAAI Black in AI Organizer (1 of 5 for annual lunch for Black in AI) AAAI Try AI Mentor and Panelist 2020 AAAI Try AI Mentor and Panelist 2020 Budent volunteer, ICFP (International Conference Functional Programming) 2018 Budent volunteer, PLDI (Programming Languages Design and Implementation) 2018 Budent volunteer, POPL (Principles of Programming Languages) 2018 MENTORSHIP Interviewed for CareerGirls org Boston (videographed at MIT) 2019 Boogle Developer Student Club Lead (for University of Vermont) 2019 RESEARCH TALKS Personalized Robotic Control using MISL" for UVM/CS++ Research Day 2019 PUBLICATIONS / POSTS Boogle Summer of Code "Breaking the Time-Space Barrier with Haskell" 2018 NDUSTRY TALKS Women in Data Science talk "Why conferences matter" (40 min NeurIPS inspired talk) 2020 Magic Gnomes: A GHC Compiler talk (5-minute talk at Github for Sentry's Show & Tell) 2019 2018 Recap of Google I/O 2018" (20 minute Lightning Talk for Meetup group) 2018 Recap of Google I/O 2018" (20 minute presentation at Google Developer Group LA) 2019 2020 2030 2040 2050 2060 2070 2080 2090 2090 2091 2091 2092 2092 2093 2094 2094 2094 2094 2095 2094 2095 2094 2095 2095 2096 2097 2097 2097 2098 2098 2099 2098 2099 2009 2009 2009 2019		
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