# **Krystal Maughan**

## Krystal.maughan@gmail.com

Github: https://github.com/kammitama5

Tel: 607.342. 6970

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

Research Interests: Differential Privacy, Fairness, Machine Learning	,
University of Vermont, PhD candidate	2019-presen
Differential Privacy, Fairness, Neural Networks	
Skills: Python, Haskell, LaTeX, Jupyter, PySpark, PyTorch, Tensorflow, Git	
Research Assistant, PLAID Lab (Vermont)	2019-presen
Supervisors: Joe Near and David Darais: Research on Provable Fairness and Privacy	
Using Machine Learning. Funded via Amazon Research Fellowship (2020-2022)	
Research Intern, Autodesk Summer 2020 (Pier 9, San Francisco: remote)	2020
Research Intern for Forge Team	
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	
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)	
RELEVANT WORK EXPERIENCE	
Mercury: Software Engineering Intern (San Francisco)	2019
Apple, Inc.: Software Engineering Intern (Sunnyvale)	2019
Google Summer of Code: Developer for Haskell.org (remote)	2018
Mozilla: Increasing Rust's Reach Developer (remote)	2018
RESEARCH TALKS & POSTER PRESENTATIONS	
Carnegie Mellon's (CMU) Al for Social Good Symposium (poster, 2 min talk)	2020
"Personalized Robotic Control using MISL" for UVM/CS++ Research Day (20 min talk)	2019
MERIT-BASED MENTORSHIPS / RESEARCH MENTORSHIPS	
Mentee, Global Outreach Mentorship with Dr. Swathi Gupta (EC 2020)	2020
Mentee, LatinX in Al Research Workshop Mentorship with J. Barajas (ICML 2020)	2020
Mentee, Lighthouse3 AI Ethics Mentoring Externship with F. McEvoy (1 of 20 chosen)	2020
Mentee, Code2040 Fellowship with Ben Waber	2020

#### MERIT-BASED GRANTS / SCHOLARSHIPS TechX Social Impact / Harvard Franklin Fellowship (1 of 12) 2020 Participant, Algorithmic Game Theory Mentoring Workshop (AMW) 2020 (co-located with EC 2020) WiML ICML Travel Funding Grant 2020 ALife Student Scholarship Recipient (to attend ALife Conference) 2020 BRAID Funding to attend Grace Hopper Conference (courtesy of UVM) 2020 NCWIT Change Leader Scholar (1 of 30) 2020 NCWIT Collegiate Award Finalist (1 of 85) 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 Financial Aid Grant, SciPy (Scientific Computing with Python) 2020 LXAI+BAI@GTC Nvidia Digital DLI Workshop Scholarship Award for DLI workshop 2020 "Applications of AI for Anomaly Detection [LDLIW2249] (Deep Learning Institute at GTC) ICERM (Brown University) Variable Precision in Mathematical & Scientific Thinking 2020 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 (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: Optimal Transport and applications to machine learning and statistics 2020 Connections for Women: 2019 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

2018

2018

PLMW (Programming Languages Mentorship Workshop)

ICFP (International Conference Functional Programming)
PLMW(Programming Languages Mentorship Workshop)

#### **OTHER GRANTS/ FELLOWSHIPS**

EVIEWER  Eviewer and Programme Committee Member, LXAI@ICML Workshop  2020  parmittee Reviewer, HCI Track, GHC (Grace Hopper Conference)  2020  partitive Reviewer, PML4DC (Practical ML for Developing Countries) workshop, ICLR  2020  paviewer, Tapia Conference (Panels and Workshops)  2020  eviewer, Travel Grant Applications, Black in AI for AAAI  2020  eviewer, Travel Grant Applications, Clojure Conj (2 rounds)  2027  ERVICE (Al/Machine Learning)  IML Senior Program and Mentorship Co-Chair, WiML (NeurIPS)  2020  eviewer, Travel Grant Applications of Computational Linguistics)  2020  eviewer, ACL (Association of Computational Linguistics)  2020  eviewer, ACL (Association of Computational Linguistics)  2020  porganizer, ACL (Association of Computational Linguistics)  2020  porganizer, ICML 2020 (International Conference on Machine Learning)  2020  polunteer, ICML 2020 (International Conference on Machine Learning)  2020  polunteer, ICML (International Conference on Learning Representations)  2020  polunteer, ICLR (International Conference on Learning Representations)  2020  pair, AAAI Black in AI Annual Lunch  2020  pair, AAAI Black in AI Annual Lunch  2020  pair, AAAI Black in AI Annual Lunch  2020  pair, AAAI Try AI Workshop  2020  exited Panelist, CRAFT workshop, FAT* conference Functional Programming)  2020  ERVICE (Other)  2020  2021  2021  2021  2021  2021  2022  2023  2024  2024  2026  2027  2028  2029  2029  2020  2020  2021  2021  2021  2020  2021  2020  2021  2021  2020  2021  2020  2021  2021  2020  2021  2021  2020  2021  2020  2021  2020  2021  2020  2021  2020  2020  2021  2020  2021  2020  2021  2020  2020  2021  2020  2020  2020  2021  2020  2020  2020  2020  2021  2020  2020  2020  2021  2020  2020  2020  2020  2020  2020  2020  2020  2020  2020  2020  2020  2020  2020  2020  2020  2020  2020  2020  2020  2020  2020  2020  2020  2020  2020  2020  2020  2020  2020  2020  2020  2020  2020  2020  2020  2020  2020  2020  2020  2020  2020  2020  2020  2020  2020  2020  2020  2020  2020  2020  2020  2020	DI DI (Programming Languages Design and Implementation)	
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eatured by Women of Silicon Valley, June Edition, 16 "Caribbean Techies" 2020	PRESS	
	Featured by Women of Silicon Valley, June Edition, 16 "Caribbean Techies"	2020

#### **PRESS**

Featured by Women of Silicon Valley, May Edition Interviewed for CareerGirls.org Boston (videographed at MIT)	2020 2019
Featured by Coursera (Learner Story)  FUNDRAISING / GRANT WRITING	2017
e-Kaggle Days, Responsible for securing approx \$20,000 in sponsorship funds	2020
INDUSTRY TALKS	
Moderator, VentureBeat's Transform 2020 panel on Ethics and Al	2020
Invited Panelist, Career Girls Al Virtual Camp	2020
Invited Speaker, Sister to Sister International, Inc (STSI) on AI, Privacy, Ethics	2020
Invited Panelist, Morehouse@Momentum Coding School, "The Data Don't Lie"	2020
Invited Guest, Corecursive Podcast (Technical Podcast)	2020
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
"Denotational Semantics" (2 minute Lightning Talk for Meetup group)	2018
"Recap of Google I/O 2018" (20 minute presentation at Google Developer Group LA)	2018
OTHER (NON-INDUSTRY) TALKS	
CS Crew Project talk : contributing to Maths software (CodeWorld, SageMaths)	2019
CS Crew GSoC talk (40-minute talk about Google Summer of Code and Internships)	2019
CS293 Technical Interviewing Workshop Talk	2019

#### **Developer Conference Grants to attend:**

AppSec (LA) 2019, 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

### CLASSES (PhD)

Secure Computation; taught by Joe Near using Python (Fall)	2020
Numerical Analysis; taught by Chris Danforth (Fall)	
Machine Learning; taught by Safwan Wshah using Python (Spring)	
Doctoral Research with advisors Joe Near and David Darais (Spring, Fall)	
Software Verification; taught by David Darais using Agda (Fall)	2019
Data Privacy; taught by Joe Near using Python (Fall)	
Computer Human Interaction; taught by Josh Bongard (Fall)	

#### CLASSES (RELATED)

Participant (1 of 18), "Dark Matters", School for Poetic Computation	2020
(taught by American Artist : workshop on Surveillance, data, ethics,	
history of Silicon Valley; guests included Dr. Simone Browne)	

#### **ONLINE LEARNING (SELECTED)**

DeepLearning.ai 2020

- Neural Networks and Deep Learning
- Improving Deep Neural Networks: Hyperparameter Regularization and Optimization
- Structuring Machine Learning Projects

### **ONLINE LEARNING (SELECTED)**

FutureLearn

"Empire: The Controversies of British Imperialism" 2020
"Functional Programming in Haskell" 2017