# **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, Neural Networks	
University of Vermont, PhD candidate	2019-present
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 RESEARCH MENTORSHIPS	
Mentee, Algorithmic Game Theory Mentoring Workshop (AMW)	2020
co-located with EC 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

MERIT-BASED GRANTS / SCHOLARSHIPS	
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
<ul> <li>Derived Algebraic Geometry, Birational Geometry and Moduli Spaces workshop</li> <li>Introductory Workshop: Derived Algebraic Geometry and Birational Geometry</li> </ul>	
And Moduli Spaces	0040
NASA L'Space Proposal/Poviny Academy (natentable research proposal for funding)	2019 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)	2010
ICFP (International Conference Functional Programming)	2019
PLMW(Programming Languages Mentorship Workshop)	2018
PLDI (Programming Languages Design and Implementation)	2019
OPLSS (Oregon Programming Languages Summer School Grant) - declined offer	2018

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Committee Reviewer, PML 4DC (Practical ML for Developing Countries) workshop, ICLR 2020 Reviewer, PML 4DC (Practical ML for Developing Countries) workshop, ICLR 2020 Reviewer, Tapale Conference (Panels and Workshops) 2020 Reviewer, Travel Grant Applications, Black in Al for AAAI 2020 Reviewer, Travel Grant Applications, Clojure Conj (2 rounds) 2017 Reviewer, Travel Grant Applications, Clojure Conj (2 rounds) 2017 Reviewer, Travel Grant Applications, Clojure Conj (2 rounds) 2017 Reviewer, Travel Grant Applications, Clojure Conj (2 rounds) 2017 Reviewer, Travel Grant Applications, Clojure Conj (2 rounds) 2017 Reviewer, Travel Grant Applications, Clojure Conj (2 rounds) 2017 Reviewer, Travel Grant Applications, Clojure Conj (2 rounds) 2017 Reviewer, Travel Grant Applications, Clojure Conj (2 rounds) 2017 Reviewer, Travel Grant Applications, Clojure Conj (2 rounds) 2017 Reviewer, Travel Grant Applications, Clojure Conj (2 rounds) 2020 Reviewer, Travel Grant Applications, Clojure Conj (2 rounds) 2020 Reviewer, Travel Grant Application, Conference on Machine Learning) 2020 Reviewer, Inc. (2 Rounds) 2020 R	REVIEWER	
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Reviewer, Tapia Conference (Panels and Workshops)  Reviewer, Travel Grant Applications, Black in Al for AAAI  Reviewer, Travel Grant Applications, Clojure Conj (2 rounds)  2017  2017  2017  2017  2017  2017  2017  2017  2017  2017  2017  2017  2017  2017  2018  2017  2018  2017  2018  2017  2018  2017  2018  2018  2019  2019  2010  20	Committee Reviewer, HCI Track, GHC (Grace Hopper Conference)	2020
Reviewer, Travel Grant Applications, Black in AI for AAAI Reviewer, Travel Grant Applications, Clojure Conj (2 rounds)  RERVICE (Al/Machine Learning)  WiML Senior Program and Mentorship Co-Chair, WiML (NeurIPS)  WiML Senior Program and Mentorship Co-Chair, WiML (NeurIPS)  2020  Nvited Panelist, Morehouse@Momentum Coding School, "The Data Don't Lie"  2020  Nvited Panelist, Career Girls AI Virtual Camp  2020  Volunteer, ICML 2020 (International Conference on Machine Learning)  2020  Volunteer, ICML 2020 (International Conference on Machine Learning)  2020  Volunteer, ICLR (International Conference on Learning Representations)  2020  Volunteer, ICLR (International Conference on Learning Representations)  2020  Volunteer, ICLR (International Conference on Learning Representations)  2020  Volunteer, ICLR (International Conference (declined offer)  2020  Chair, AAAI Black in AI Annual Lunch  2020  Chair, AAAI Black in AI Workshop  2020  Chair, AAAI Try AI Workshop, FAT* conference (declined offer)  2020  SERVICE (Other)  Student volunteer, ICFP (International Conference Functional Programming)  Student volunteer, PDDI (Programming Languages)  2018  Student volunteer, PDDI (Programming Languages)  2018  Student volunteer, POPL (Principles of Programming Languages)  2018  St	Chair Reviewer, PML4DC (Practical ML for Developing Countries) workshop, ICLR	2020
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Student volunteer, POPL (Principles of Programming Languages)  Google Developer Student Club Lead (for University of Vermont)  WRITING / PUBLICATIONS / POSTS  Technical Writer, OpenMined Writing Team (technical articles on Deep Learning And Differential Privacy)  Google Summer of Code "Breaking the Time-Space Barrier with Haskell"  2018  NDUSTRY PhD INVITATIONS  Participant, Discover Bloomberg: Women in Engineering event (New York, remote) Participant, Twitter PhD ML Flock Event (New York, Boston office)  2020  PRESS  Teatured by Women of Silicon Valley, May Edition Interviewed for CareerGirls.org Boston (videographed at MIT)  Teatured by Coursera (Learner Story)  PERIODRAISING / GRANT WRITING  P-Kaggle Days, Responsible for securing approx \$20,000 in sponsorship funds  NDUSTRY TALKS  Invited Guest, Corecursive Podcast (Technical Podcast)  2019		
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Roogle Summer of Code "Breaking the Time-Space Barrier with Haskell"  2018  **NDUSTRY PhD INVITATIONS**  Participant, Discover Bloomberg: Women in Engineering event (New York, remote)  Participant, Twitter PhD ML Flock Event (New York, Boston office)  2019  **PRESS**  Featured by Women of Silicon Valley, May Edition  Interviewed for CareerGirls.org Boston (videographed at MIT)  Featured by Coursera (Learner Story)  2017  **FUNDRAISING / GRANT WRITING**  Participant, Discover Bloomberg: Women in Engineering event (New York, remote)  2020  2019  **PRESS**  Featured by Women of Silicon Valley, May Edition  2020  **Press**  Featured by Coursera (Learner Story)  2017  **FUNDRAISING / GRANT WRITING**  Participant, Discover Bloomberg: Women in Engineering event (New York, remote)  2020  **PRESS**  Featured by Women of Silicon Valley, May Edition  2020  **PRESS**  Featured by Women of Silicon Valley, May Edition  2020  **PRESS**  Featured by Women of Silicon Valley, May Edition  2020  **PRESS**  Featured by Women of Silicon Valley, May Edition  2020  **PRESS**  Featured by Women of Silicon Valley, May Edition  2020  **PRESS**  Featured by Women of Silicon Valley, May Edition  2020  **PRESS**  Featured by Women of Silicon Valley, May Edition  2020  **PRESS**  Featured by Women of Silicon Valley, May Edition  2020  **PRESS**  Featured by Women of Silicon Valley, May Edition  2020  **PRESS**  Featured by Women of Silicon Valley, May Edition  2020  **PRESS**  Featured by Women of Silicon Valley, May Edition  2020  **PRESS**  Featured by Women of Silicon Valley, May Edition  2020  **PRESS**  Featured by Women of Silicon Valley, May Edition  2020  **PRESS**  Featured by Women of Silicon Valley, May Edition  2020  **PRESS**  Featured by Women of Silicon Valley, May Edition  2020  **PRESS**  Featured by Women of Silicon Valley, May Edition  2020  **PRESS**  Featured by Women of Silicon Valley, May Edition  2020  **PRESS**  Featured by Women of Silicon Valley, May Edition  2020  **PRESS**  Featured by Women of Silicon Valley, M		2020
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	NDUSTRY TALKS	
	nvited Guest, Corecursive Podcast (Technical Podcast)	2020
	Nomen in Data Science talk "Why conferences matter" (40 min NeurIPS inspired talk)	2020

#### **INDUSTRY TALKS**

"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
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)	
Privacy, Law, Policy & Design by Ryan Kriger (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)

### ONLINE LEARNING (SELECTED)

DeepLearning.ai 2020

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