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		
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		
Autodesk: Software Engineering Intern (Pier 9, San Francisco: remote)	2020	
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, 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	

MERIT-BASED GRANTS / SCHOLARSHIPS	
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
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
REVIEWER	
Reviewer and Programme Committee Member, LXAI@ICML Workshop	2020
Committee Reviewer, HCI Track, GHC (Grace Hopper Conference)	2020
Chair Reviewer, PML4DC (Practical ML for Developing Countries) workshop, ICLR	2020
(International Conference on Learning Representations)	
Reviewer, Tapia Conference (Panels and Workshops)	2020
Reviewer, Travel Grant Applications, Black in Al for AAAI	2020
(Association for the Advancement of Artificial Intelligence)	

REVIEWER

Volunteer, ICLR (International Conference on Learning Representations) Wember, MD4SG (Mechanism Design for Social Good); Education working group 2020 Chair, AAAI Black in AI Annual Lunch 2020 Panelist, AAAI Try AI Workshop Invited Panelist, CRAFT workshop, FAT* conference (declined offer) 2020 Invited Panelist, CRAFT workshop, FAT* conference (declined offer) 2020 SERVICE (Other) 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 Google Developer Student Club Lead (for University of Vermont) 2019 WRITING / PUBLICATIONS / POSTS Technical Writer, OpenMined Writing Team (technical articles on Deep Learning 2020 And Differential Privacy) Google Summer of Code "Breaking the Time-Space Barrier with Haskell" 2018 INDUSTRY PhD INVITATIONS Participant, Discover Bloomberg: Women in Engineering event (New York, remote) 2020 Participant, Twitter PhD ML Flock Event (New York, Boston office) 2020 PRESS Featured by Women of Silicon Valley, May Edition 2020 Interviewed for CareerGirls.org Boston (videographed at MIT) 2019 Freatured by Coursera (Learner Story) INDUSTRY TALKS Invited Guest, Corecursive Podcast (Technical Podcast) 2020 Women in Data Science talk "Why conferences matter" (40 min NeurIPS inspired talk) 2020 Women in Data Science talk "Why conferences matter" (40 min NeurIPS inspired talk) 2020 Women in Data Science talk "Why conferences matter" (40 min NeurIPS inspired talk) 2020 Women in Data Science talk "Why conferences matter" (40 min NeurIPS inspired talk) 2020 Women in Data Science talk "Why conferences matter" (40 min NeurIPS inspired talk) 2020 Women in Data Science talk "Open Italk (5-minute talk at Github for Sentry's Show & Tell) 2019 Denotational Semantics" (2 minute Lightning Talk for Meetup group) 2018 CS Crew GSoC talk (40-minute talk about Google Summer of Code and Internships) 2019	Reviewer, Travel Grant Applications, Clojure Conj (2 rounds)	2017
Member, MD4SG (Mechanism Design for Social Good); Education working group Chair, AAAI Black in AI Annual Lunch Panelist, AAAI Try AI Workshop Invited Panelist, CRAFT workshop, FAT* conference (declined offer) SERVICE (Other) Student volunteer, ICFP (International Conference Functional Programming) Student volunteer, PLDI (Programming Languages Design and Implementation) Student volunteer, PCPL (Principles of Programming Languages) 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 INDUSTRY PhD INVITATIONS Participant, Discover Bloomberg: Women in Engineering event (New York, remote) Participant, Twitter PhD ML Flock Event (New York, Boston office) 2020 Participant, Twitter PhD ML Flock Event (New York, Boston office) 2020 Participant, Twitter PhD ML Flock Event (New York, Boston office) 2020 Participant, Twitter PhD ML Flock Event (New York, Boston office) 2020 Participant by Women of Silicon Valley, May Edition Interviewed for CareerGirls org Boston (videographed at MIT) 2019 PRESS Featured by Coursera (Learner Story) INDUSTRY TALKS Invited Guest, Corecursive Podcast (Technical Podcast) 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 "Penolational Semantics" (2 minute Lightning Talk for Meetup group) "Recap of Google I/O 2018" (20 minute presentation at Google Developer Group LA) 2018 CS Crew GSoC talk (40-minute talk about Google Summer of Code and Internships) 2019	SERVICE (Al/Machine Learning)	
Chair, AAAI Black in AI Annual Lunch Panelist, AAAI Try AI Workshop Panelist, AAAI Try AI Workshop Panelist, CRAFT workshop, FAT* conference (declined offer) SERVICE (Other) Student volunteer, ICFP (International Conference Functional Programming) Student volunteer, PLDI (Programming Languages Design and Implementation) Student volunteer, POPL (Principles of Programming Languages) Student volunteer, PoPL (Principles of Programmin	Volunteer, ICLR (International Conference on Learning Representations)	2020
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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 and ethics)

ONLINE LEARNING (SELECTED)

DeepLearning.ai 2020

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