# **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

MEDIT DAGED ODANTO / COUCH ADOLUDO	
MERIT-BASED GRANTS / SCHOLARSHIPS Took V. Social Import / Hongard Franklin Followskin (1 of 12)	2020
TechX Social Impact / Harvard Franklin Fellowship (1 of 12)	2020
Participant, Algorithmic Game Theory Mentoring Workshop (AMW) (co-located with EC 2020)	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
Udacity's Machine Learning Scholarship for Microsoft Azure	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)	2017
Who's Who/ Peggy Williams Memorial Scholarship/ Best BFA Award (Best of Major)	2008
Who's Who' Peggy Williams Memorial Scholarship/ Best BFA Award (Best of Major)	2006
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)	

Student volunteer, ICFP (International Conference Functional Programming)  Student volunteer, PLDI (Programming Languages Design and Implementation)  Student volunteer, POPL (Principles of Programming Languages)  Student volunteer, SPLASH  (Systems, Programming, Languages, and Applications) (declined offer)  NON-ACADEMIC SERVICE  Judge, DataKind, Data.org, Inclusive Growth and Recovery Challenge  2018  2018  2018  2018	OPLSS (Oregon Programming Languages Summer School Grant) - declined offer  ACADEMIC REVIEWER	2018
ACADEMIC REVIEWER Reviewer and Programme Committee Member, LXAI@ICML Workshop 2020 Chair Reviewer, HCI Track, GHC (Grace Hopper Conference) 2020 Reviewer, Tapia Conference (Panels and Workshops) 2020 Reviewer, Travel Grant Applications, Black in AI for AAAI 2020 Reviewer, Travel Grant Applications, Black in AI for AAAI 2020 Reviewer, Travel Grant Applications, Clojure Conj (2 rounds) 2017  ACADEMIC SERVICE (Al/Machine Learning) WiML Senior Program and Mentorship Co-Chair, WiML (NeurIPS) 2020 Resision Facilitator, ICML 2020 for "Recommender System Research in Industry" (1 of 2) 2020 Aclunteer ACL (Association of Computational Linguistics) 2020 Co-organizer, ACL (Association of Computational Linguistics) Black in AI Socials 2020 Co-organizer, ACHE Hackathon 2020 Acountier, ICML 2020 (International Conference on Machine Learning) 2020 Acountier, ICML 2020 (International Conference on Machine Learning) 2020 Acountier, ICML 2020 (International Conference on Learning Representations) 2020 Acountier, ICLR (International Conference on Learning Representations) 2020 Acountier, ICLR (International Conference on Learning Representations) 2020 Acountier, ICAAI Black in AI Annual Lunch 2020 Panelist, AAAI Try Al Workshop 2020 Acountier AAAI Black in AI Annual Lunch 2020 Panelist, CRAFT workshop, FAT* conference (declined offer) 2020 ACADEMIC SERVICE (Other) Student Volunteer, ICFP (International Conference Functional Programming) 2018 Student Volunteer, PLDI (Programming Languages Design and Implementation) 2018 Student volunteer, SPLASH 2018 Systems, Programming, Languages, and Applications) (declined offer) 2020 AVACADEMIC SERVICE Audge, DataKind, Data.org, Inclusive Growth and Recovery Challenge 2020	ACADEMIC REVIEWER	2018
Reviewer and Programme Committee Member, LXAI@ICML Workshop  Committee Reviewer, HCI Track, GHC (Grace Hopper Conference)  Chair Reviewer, PML4DC (Practical ML for Developing Countries) workshop, ICLR  Reviewer, Tapia Conference (Panels and Workshops)  Reviewer, Travel Grant Applications, Black in Al for AAAI  Reviewer, Travel Grant Applications, Clojure Conj (2 rounds)  CACADEMIC SERVICE (Al/Machine Learning)  WIML Senior Program and Mentorship Co-Chair, WiML (NeurIPS)  CESSION Facilitator, ICML 2020 for "Recommender System Research in Industry" (1 of 2) 2020  Volunteer ACL (Association of Computational Linguistics)  Co-organizer, ACL (Association of Computational Linguistics) Black in Al Socials  Co-organizer, ACL (Association of Computational Linguistics) Black in Al Socials  Co-organizer, ACL (Association of Computational Linguistics) Black in Al Socials  Co-organizer, ACL (Association of Computational Linguistics) Black in Al Socials  Co-organizer, CAL (International Conference on Machine Learning)  Volunteer, ICML 2020 (International Conference on Learning Representations)  Volunteer, ICLR (International Conference on Learning Representations)  Volunteer, MD4SG (Mechanism Design for Social Good); Education working group  Chair, AAAI Black in Al Annual Lunch  2020  Panelist, AAAI Try Al Workshop  Invited Panelist, CRAFT workshop, FAT* conference (declined offer)  CACADEMIC SERVICE (Other)  Student Volunteer, ICFP (International Conference Functional Programming)  Student volunteer, PLDI (Programming Languages Design and Implementation)  2018  Student volunteer, PPALSH  Systems, Programming, Languages, and Applications) (declined offer)  NON-ACADEMIC SERVICE  Pudge, DataKind, Data.org, Inclusive Growth and Recovery Challenge		
Committee Reviewer, HCI Track, GHC (Grace Hopper Conference) Chair Reviewer, PML4DC (Practical ML for Developing Countries) workshop, ICLR CREVIEWER, Tapia Conference (Panels and Workshops) CREVIEWER, Travel Grant Applications, Black in AI for AAAI CREVIEWER, Travel Grant Applications, Clojure Conj (2 rounds)  CREVIEWER, Travel Grant Applications, Clojure Conj (2 rounds)  CACADEMIC SERVICE (Al/Machine Learning)  WIML Senior Program and Mentorship Co-Chair, WiML (NeurIPS) CRESSION Facilitator, ICML 2020 for "Recommender System Research in Industry" (1 of 2) 2020  Colunteer ACL (Association of Computational Linguistics) CRO-Organizer, ACL (International Conference on Machine Learning) CROUNTEER, ICML 2020 (International Conference on Machine Learning) CROUNTEER, ICLR (International Conference on Learning Representations) CROUNTEER, ICLR (International Conference on Learning Representations) CROUNTEER, AAAI Black in AI Annual Lunch CRAIN, AAAI Black in AI Annual Lunch CRAIN, AAAI Try AI Workshop CRAIN, AAAI Try AI Workshop CRAIN, AAAI Try AI Workshop, FAT* conference (declined offer)  CRAIN CRAPEWICE (Other) CRAIN CRAPEWICE (Other) CRAIN CRAPEWICE (Other) CRAIN CRAPEWICE (Other) CRAIN CRAPEWICE, PLDI (Programming Languages) CRUIN CRAPEWICE, SPLASH CRAPEWICE SERVICE Undge, DataKind, Data.org, Inclusive Growth and Recovery Challenge  2020 CROWN CRAPEWICE CONTRACTOR CONTRACTOR CRAPEWICE CRUGGE, DataKind, Data.org, Inclusive Growth and Recovery Challenge	Reviewer and Programme Committee Member, LXAI@ICML Workshop	
Chair Reviewer, PML4DC (Practical ML for Developing Countries) workshop, ICLR Reviewer, Tapia Conference (Panels and Workshops)  Reviewer, Travel Grant Applications, Black in AI for AAAI  2020 Reviewer, Travel Grant Applications, Clojure Conj (2 rounds)  ACADEMIC SERVICE (Al/Machine Learning)  MiML Senior Program and Mentorship Co-Chair, WiML (NeurIPS)  Session Facilitator, ICML 2020 for "Recommender System Research in Industry" (1 of 2) 2020  Volunteer ACL (Association of Computational Linguistics)  Co-organizer, ACL (Association of Computational Linguistics) Black in AI Socials  Co-organizer, ALife Hackathon  Volunteer, ICML 2020 (International Conference on Machine Learning)  Volunteer, ICML 2020 (International Conference on Machine Learning)  Volunteer, ICLR (International Conference on Learning Representations)  Wember, MD4SG (Mechanism Design for Social Good); Education working group  Chair, AAAI Black in AI Annual Lunch  Panelist, AAAI Try AI Workshop  nvited Panelist, CRAFT workshop, FAT* conference (declined offer)  ACADEMIC SERVICE (Other)  Student Volunteer, ICFP (International Conference Functional Programming)  Student volunteer, PCPU (Programming Languages Design and Implementation)  2018  Student volunteer, POPL (Principles of Programming Languages)  Student volunteer, SPLASH  Systems, Programming, Languages, and Applications) (declined offer)  NON-ACADEMIC SERVICE  Undge, DataKind, Data.org, Inclusive Growth and Recovery Challenge	, ,	2020
Reviewer, Tapia Conference (Panels and Workshops)  Reviewer, Travel Grant Applications, Black in AI for AAAI  2020 Reviewer, Travel Grant Applications, Clojure Conj (2 rounds)  ACADEMIC SERVICE (Al/Machine Learning)  MiML Senior Program and Mentorship Co-Chair, WiML (NeurIPS)  Session Facilitator, ICML 2020 for "Recommender System Research in Industry" (1 of 2) 2020  Acologous Facilitator, ICML 2020 for "Recommender System Research in Industry" (1 of 2) 2020  Acologous Facilitator, ICML 2020 for "Recommender System Research in Industry" (1 of 2) 2020  Co-organizer, ACL (Association of Computational Linguistics)  Black in AI Socials  2020  Co-organizer, ALife Hackathon  2020  Acolounteer, ICML 2020 (International Conference on Machine Learning)  2020  Acolounteer, ICLR (International Conference on Learning Representations)  2020  Acolounteer, ICLR (International Conference on Learning Representations)  2020  Acolounteer, MD4SG (Mechanism Design for Social Good); Education working group  2020  Acolounteer, AAAI Black in AI Annual Lunch  Panelist, AAAI Try AI Workshop  2020  Acolounteer, AAAI Try AI Workshop, FAT* conference (declined offer)  2020  ACADEMIC SERVICE (Other)  Student Volunteer, ICFP (International Conference Functional Programming)  2018  Student Volunteer, PDDI (Programming Languages Design and Implementation)  2018  Student volunteer, PPDL (Principles of Programming Languages)  2018  Student volunteer, SPLASH  Systems, Programming, Languages, and Applications) (declined offer)  NON-ACADEMIC SERVICE  Budge, DataKind, Data.org, Inclusive Growth and Recovery Challenge	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)  ACADEMIC SERVICE (Al/Machine Learning)  MiML Senior Program and Mentorship Co-Chair, WiML (NeurIPS)  Session Facilitator, ICML 2020 for "Recommender System Research in Industry" (1 of 2) 2020  Volunteer ACL (Association of Computational Linguistics)  Co-organizer, ACL (Association of Computational Linguistics) Black in AI Socials  Co-organizer, ALife Hackathon  Volunteer, ICML 2020 (International Conference on Machine Learning)  Volunteer, ICML 2020 (International Conference on Machine Learning)  Volunteer, ICLR (International Conference on Learning Representations)  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)  ACADEMIC SERVICE (Other)  Student Volunteer, ICFP (International Conference Functional Programming)  Student volunteer, PCPI (Programming Languages Design and Implementation)  Student volunteer, POPL (Principles of Programming Languages)  Student volunteer, SPLASH  Systems, Programming, Languages, and Applications) (declined offer)  NON-ACADEMIC SERVICE  Undge, DataKind, Data.org, Inclusive Growth and Recovery Challenge	Chair Reviewer, PML4DC (Practical ML for Developing Countries) workshop, ICLR	2020
ACADEMIC SERVICE (Al/Machine Learning)  MiML Senior Program and Mentorship Co-Chair, WiML (NeurIPS)  Session Facilitator, ICML 2020 for "Recommender System Research in Industry" (1 of 2) 2020  Volunteer ACL (Association of Computational Linguistics)  Co-organizer, ACL (Association of Computational Linguistics) Black in Al Socials  Co-organizer, ALife Hackathon  Volunteer, ICML 2020 (International Conference on Machine Learning)  Volunteer, ICML 2020 (International Conference on Machine Learning)  Volunteer, ICLR (International Conference on Learning Representations)  Member, MD4SG (Mechanism Design for Social Good); Education working group  Chair, AAAI Black in Al Annual Lunch  Panelist, AAAI Try Al Workshop  Invited Panelist, CRAFT workshop, FAT* conference (declined offer)  ACADEMIC 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, SPLASH  Systems, Programming, Languages, and Applications) (declined offer)  NON-ACADEMIC SERVICE  Undge, DataKind, Data.org, Inclusive Growth and Recovery Challenge	Reviewer, Tapia Conference (Panels and Workshops)	2020
ACADEMIC SERVICE (Al/Machine Learning)  WiML Senior Program and Mentorship Co-Chair, WiML (NeurIPS)  Session Facilitator, ICML 2020 for "Recommender System Research in Industry" (1 of 2) 2020  Volunteer ACL (Association of Computational Linguistics)  Co-organizer, ACL (Association of Computational Linguistics) Black in AI Socials  Co-organizer, ALife Hackathon  2020  Volunteer, ICML 2020 (International Conference on Machine Learning)  Volunteer, ICML 2020 (International Conference on Machine Learning)  Volunteer, ICLR (International Conference on Learning Representations)  Member, IDLR (International Conference on Learning Representations)  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)  ACADEMIC 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, SPLASH  (Systems, Programming, Languages, and Applications) (declined offer)  NON-ACADEMIC SERVICE  Undge, DataKind, Data.org, Inclusive Growth and Recovery Challenge	Reviewer, Travel Grant Applications, Black in AI for AAAI	2020
WiML Senior Program and Mentorship Co-Chair, WiML (NeurIPS) Session Facilitator, ICML 2020 for "Recommender System Research in Industry" (1 of 2) 2020 Volunteer ACL (Association of Computational Linguistics) Co-organizer, ACL (Association of Computational Linguistics) Black in AI Socials Co-organizer, ALife Hackathon Volunteer, ICML 2020 (International Conference on Machine Learning) Volunteer, ICML 2020 (International Conference on Machine Learning) Volunteer, ICLR (International Conference on Learning Representations) Volunteer, ICLR (International Conference on Learning Representations) Volunteer, 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)  ACADEMIC SERVICE (Other) Student Volunteer, ICFP (International Conference Functional Programming) Student volunteer, ICFP (International Conference Functional Programming) Student volunteer, PDDI (Programming Languages Design and Implementation) Student volunteer, POPL (Principles of Programming Languages) Student volunteer, SPLASH Systems, Programming, Languages, and Applications) (declined offer)  NON-ACADEMIC SERVICE Undge, DataKind, Data.org, Inclusive Growth and Recovery Challenge	Reviewer, Travel Grant Applications, Clojure Conj (2 rounds)	2017
Session Facilitator, ICML 2020 for "Recommender System Research in Industry" (1 of 2) 2020 Volunteer ACL (Association of Computational Linguistics) 2020 Co-organizer, ACL (Association of Computational Linguistics) Black in Al Socials 2020 Co-organizer, ALife Hackathon 2020 Volunteer, ICML 2020 (International Conference on Machine Learning) 2020 Volunteer, EC'20 (Economics and Computation) 2020 Volunteer, ICLR (International Conference on Learning Representations) 2020 Volunteer, MD4SG (Mechanism Design for Social Good); Education working group 2020 Chair, AAAI Black in Al Annual Lunch 2020 Panelist, AAAI Try Al Workshop 2020 Invited Panelist, CRAFT workshop, FAT* conference (declined offer) 2020 ACADEMIC SERVICE (Other) Student Volunteer, ICFP (International Conference Functional Programming) 2018 Student volunteer, PLDI (Programming Languages Design and Implementation) 2018 Student volunteer, POPL (Principles of Programming Languages) 2018 Student volunteer, SPLASH 2018 Stystems, Programming, Languages, and Applications) (declined offer)  NON-ACADEMIC SERVICE Undge, DataKind, Data.org, Inclusive Growth and Recovery Challenge 2020	CADEMIC SERVICE (Al/Machine Learning)	
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Co-organizer, ACL (Association of Computational Linguistics) Black in AI Socials Co-organizer, ALife Hackathon Volunteer, ICML 2020 (International Conference on Machine Learning) Volunteer, EC'20 (Economics and Computation) Volunteer, ICLR (International Conference on Learning Representations) 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)  ACADEMIC 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, SPLASH (Systems, Programming, Languages, and Applications) (declined offer)  NON-ACADEMIC SERVICE Undge, DataKind, Data.org, Inclusive Growth and Recovery Challenge	Session Facilitator, ICML 2020 for "Recommender System Research in Industry" (1 of 2)	2020
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Chair, AAAI Black in AI Annual Lunch Panelist, AAAI Try AI Workshop Invited Panelist, CRAFT workshop, FAT* conference (declined offer)  ACADEMIC SERVICE (Other) Student Volunteer, ICFP (International Conference Functional Programming) Student volunteer, ICFP (International Conference Functional Programming) Student volunteer, PLDI (Programming Languages Design and Implementation) Student volunteer, POPL (Principles of Programming Languages) Student volunteer, SPLASH (Systems, Programming, Languages, and Applications) (declined offer)  NON-ACADEMIC SERVICE Judge, DataKind, Data.org, Inclusive Growth and Recovery Challenge 2020	olunteer, ICLR (International Conference on Learning Representations)	2020
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ACADEMIC SERVICE (Other) Student Volunteer, ICFP (International Conference Functional Programming) Student volunteer, ICFP (International Conference Functional Programming) Student volunteer, ICFP (International Conference Functional Programming) Student volunteer, PLDI (Programming Languages Design and Implementation) Student volunteer, POPL (Principles of Programming Languages) Student volunteer, SPLASH (Systems, Programming, Languages, and Applications) (declined offer)  NON-ACADEMIC SERVICE  Judge, DataKind, Data.org, Inclusive Growth and Recovery Challenge  2020	Chair, AAAI Black in AI Annual Lunch	2020
ACADEMIC SERVICE (Other)  Student Volunteer, ICFP (International Conference Functional Programming) 2020 Student volunteer, ICFP (International Conference Functional Programming) 2018 Student volunteer, PLDI (Programming Languages Design and Implementation) 2018 Student volunteer, POPL (Principles of Programming Languages) 2018 Student volunteer, SPLASH 2018 (Systems, Programming, Languages, and Applications) (declined offer)  NON-ACADEMIC SERVICE  Judge, DataKind, Data.org, Inclusive Growth and Recovery Challenge 2020	Panelist, AAAI Try AI Workshop	2020
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Student volunteer, POPL (Principles of Programming Languages)  Student volunteer, SPLASH  (Systems, Programming, Languages, and Applications) (declined offer)  NON-ACADEMIC SERVICE  Judge, DataKind, Data.org, Inclusive Growth and Recovery Challenge  2020	Student volunteer, ICFP (International Conference Functional Programming)	2018
Student volunteer, SPLASH  (Systems, Programming, Languages, and Applications) (declined offer)  NON-ACADEMIC SERVICE  Judge, DataKind, Data.org, Inclusive Growth and Recovery Challenge  2020	Student volunteer, PLDI (Programming Languages Design and Implementation)	2018
Systems, Programming, Languages, and Applications) (declined offer)  NON-ACADEMIC SERVICE  Judge, DataKind, Data.org, Inclusive Growth and Recovery Challenge 2020	Student volunteer, POPL (Principles of Programming Languages)	2018
NON-ACADEMIC SERVICE  Judge, DataKind, Data.org, Inclusive Growth and Recovery Challenge 2020	Student volunteer, SPLASH	2018
Judge, DataKind, Data.org, Inclusive Growth and Recovery Challenge 2020	Systems, Programming, Languages, and Applications) (declined offer)	
	ION-ACADEMIC SERVICE	
Google Developer Student Club Lead (for University of Vermont) 2019	udge, DataKind, Data.org, Inclusive Growth and Recovery Challenge	2020
	Google Developer Student Club Lead (for University of Vermont)	2019
	echnical Writer, OpenMined Writing Team (technical articles on Deep Learning	2020

2018

And Differential Privacy)

Google Summer of Code "Breaking the Time-Space Barrier with Haskell"

#### INDUSTRY PhD INVITATIONS

INDUSTRY PND INVITATIONS	
Participant, Discover Bloomberg: Women in Engineering event (New York, remote)	2020
Participant, Twitter PhD ML Flock Event (New York, Boston office)	2019
PRESS	
Featured by Women of Silicon Valley, June Edition, 16 "Caribbean Techies"	2020
Featured by Women of Silicon Valley, May Edition	2020
Interviewed for CareerGirls.org Boston (videographed at MIT)	2019
Featured by Coursera (Learner Story)	2017
INDUSTRY TALKS	
Moderator, VentureBeat's Transform 2020 panel on Ethics and Al	2020
Invited Panelist, Career Girls AI 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
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#### **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 and Rashida Richardson)	

## **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