# **Krystal Maughan**

# Krystal.maughan@gmail.com

Github: https://github.com/kammitama5

Tel: 607.342. 6970

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

kills: Python, Haskell, LaTeX, Jupyter, SQL, AWS, PySpark, PyTorch, Tensorflow, Git  Research Assistant, PLAID Lab (Vermont) uppervisors: Joe Near and David Darais: Research on Provable Fairness and Privacy Ising Machine Learning. Funded via Amazon Research Fellowship (2020-2022)  Research Assistant, PLAID Lab (Vermont) uppervisors: Joe Near and Swati Gupta: Research on Participatory Fairness  Research Intern, Autodesk Summer 2020 (Pier 9, San Francisco: remote) Research Intern for Forge Team, Differential Privacy project  Research Intern for Forge Team, Differential Privacy project  Research Writing Consultant, Fall 2020 (Vermont) Rechnical Writing Consultant for graduate students Rechnical Writing Consultant for fields as broad as Materials Science to History  Reacher's Assistant, Fall/Spring 2019-2020 (Vermont) Reacher's Assistant, Fall/Spring 2019-2020 (Vermont) Rechnical Writing Consultant for Bob Rechnical Privacy With Haskell (taught by Joe Near)  Research Matlab (taught by Radhakrishna Dasari) Research Intern (Sun Francisco) Recourse Software Engineering Intern (San Francisco) Recourse Software Engineering Intern (San Francisco) Recourse Software Engineering Intern (San Francisco) Recourse Software Engineering Intern (Sunnyvale)  Research Assistant, Fall Research Developer (remote)  RESEARCH TALKS & POSTER PRESENTATIONS	Research Interests: Differential Privacy, Fairness, Machine Learning	
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Pesearch Assistant, PLAID Lab (Vermont)  Upervisors: Joe Near and David Darais: Research on Provable Fairness and Privacy Ising Machine Learning. Funded via Amazon Research Fellowship (2020-2022)  Pesearch Assistant, PLAID Lab (Vermont)  Upervisors: Joe Near and Swati Gupta: Research on Participatory Fairness  Pesearch Intern, Autodesk Summer 2020 (Pier 9, San Francisco: remote)  Pesearch Intern for Forge Team, Differential Privacy project  Periodic Mentor and Consultant, Fall 2020 (Vermont)  Periodic Mentor and Consultant for graduate students  Pethnical Writing Consultant for fields as broad as Materials Science to History  Peacher's Assistant, Fall/Spring 2019-2020 (Vermont)  Peacher's Assistant, Fall/Spring 2019-2020 (Vermont)  Peacher's Assistant, Fall/Spring 2019-2020 (Vermont)  Periodic Mentor and Consultant for fields as broad as Materials Science to History  Peacher's Assistant, Fall/Spring 2019-2020 (Vermont)  Peacher's Assistant, Fall/Spring	Differential Privacy, Fairness, Neural Networks	
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Teacher's Assistant, Fall/Spring 2019-2020 (Vermont)  Tompiler Construction with Haskell (taught by Joe Near)  Togramming with Matlab (taught by Bob Erickson)  Trogramming with Matlab (taught by Radhakrishna Dasari)  Teata Privacy with Jupyter, Python (taught by Joe Near)  TELEVANT WORK EXPERIENCE  Tercury: Software Engineering Intern (San Francisco)  Topple, Inc.: Software Engineering Intern (Sunnyvale)  Teogle Summer of Code: Developer for Haskell.org (remote)  Topple, Increasing Rust's Reach Developer (remote)  TESEARCH TALKS & POSTER PRESENTATIONS	Writing Mentor and Consultant for graduate students	
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rogramming with Matlab (taught by Radhakrishna Dasari)  ata Privacy with Jupyter, Python (taught by Joe Near)  ELEVANT WORK EXPERIENCE  Itercury: Software Engineering Intern (San Francisco)  pple, Inc.: Software Engineering Intern (Sunnyvale)  coogle Summer of Code: Developer for Haskell.org (remote)  Itercury: Software Engineering Intern (Sunnyvale)  coogle Summer of Code: Developer for Haskell.org (remote)  2018  ESEARCH TALKS & POSTER PRESENTATIONS	Compiler Construction with Haskell (taught by Joe Near)	2020
Pata Privacy with Jupyter, Python (taught by Joe Near)  PELEVANT WORK EXPERIENCE  Plercury: Software Engineering Intern (San Francisco) 2019  Pople, Inc.: Software Engineering Intern (Sunnyvale) 2019  Proogle Summer of Code: Developer for Haskell.org (remote) 2018  Plozilla: Increasing Rust's Reach Developer (remote) 2018  PESEARCH TALKS & POSTER PRESENTATIONS	Advanced Web Design (taught by Bob Erickson)	
RELEVANT WORK EXPERIENCE Rercury: Software Engineering Intern (San Francisco) 2019 Repple, Inc.: Software Engineering Intern (Sunnyvale) 2019 Reoogle Summer of Code: Developer for Haskell.org (remote) 2018 Research Talks & Poster Presentations	Programming with Matlab (taught by Radhakrishna Dasari)	2019
Itercury: Software Engineering Intern (San Francisco)  Imple, Inc.: Software Engineering Intern (Sunnyvale)  Imposed Summer of Code: Developer for Haskell.org (remote)  Itercury: Software Engineering Intern (San Francisco)  2019  2019  2019  2018  2018  2018  2018  2018  2018	Data Privacy with Jupyter, Python (taught by Joe Near)	
pple, Inc.: Software Engineering Intern (Sunnyvale)  coogle Summer of Code: Developer for Haskell.org (remote)  lozilla: Increasing Rust's Reach Developer (remote)  2018  2018  2018	RELEVANT WORK EXPERIENCE	
Roogle Summer of Code: Developer for Haskell.org (remote)  2018  2018  2018  2018  2018  2018	Mercury: Software Engineering Intern (San Francisco)	2019
Iozilla: Increasing Rust's Reach Developer (remote) 2018 PESEARCH TALKS & POSTER PRESENTATIONS	Apple, Inc.: Software Engineering Intern (Sunnyvale)	2019
ESEARCH TALKS & POSTER PRESENTATIONS	Google Summer of Code: Developer for Haskell.org (remote)	2018
	Mozilla: Increasing Rust's Reach Developer (remote)	2018
oster Presentation, 4th MD4SGD 2020 Annual Proceedings 2020	RESEARCH TALKS & POSTER PRESENTATIONS	
Loto	Poster Presentation, 4th MD4SGD 2020 Annual Proceedings	2020
	Towards a Measure of Individual Fairness for Deep Learning" (first author)	
oster Presentation, Carnegie Mellon's (CMU) AI for Social Good Symposium 2020	Poster Presentation, Carnegie Mellon's (CMU) Al for Social Good Symposium	2020
	Examining Implicit Bias in Police Data: Lessons Learned about Reproducibility	
nd Transparency in Al"	And Transparency in Al"	

RESEARCH TALKS & POSTER PRESENTATIONS	
"Towards a Measure of Individual Fairness for Deep Learning";	2020
Short Presentation given for UVM/CS++ Research Day (20 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. Swati Gupta (EC 2020)	2020
Mentee, LatinX in Al Research Workshop Mentorship with J. Barajas (ICML 2020)	2020
Mentee, Mentored by Amal Ahmed, (ICFP 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)	2020
WiML ICML Travel Funding Grant (sponsor QuantumBlack)	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)	2016
Who's Who/ Peggy Williams Memorial Scholarship/ Best BFA Award (Best of Major)	2008
OTHER GRANTS/ FELLOWSHIPS	
Grace Hopper Conference	2020
Women of Color in Technology Complimentary Registration	
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)	

OTHER GRANTS/ FELLOWSHIPS	
	2019
	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> <li>And Moduli Spaces</li> </ul>	
VASA L'Space NPWEE Concept Proposal writing programme participant	2019
IASA L'Space Proposal/Review Academy (patentable research proposal for funding)	2019
IASA 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
CFP (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
ACADEMIC REVIEWER	
	2020
	2020
	2020
	2020
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ACADEMIC SERVICE (Al/Machine Learning)	
	2020
Session Facilitator, ICML 2020 for "Recommender System Research in Industry" (1 of 2)	2020
	2020
	2020
	2020
olunteer, ICML 2020 (International Conference on Machine Learning)	2020
Volunteer, ICML 2020 (International Conference on Machine Learning) Volunteer, EC'20 (Economics and Computation)	2020 2020
Volunteer, ICML 2020 (International Conference on Machine Learning)  Volunteer, EC'20 (Economics and Computation)  Volunteer, ICLR (International Conference on Learning Representations)	
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	2020 2020
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	2020
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	2020 2020 2020 2020
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Student volunteer, ICFP (International Conference Functional Programming)

2018

ACADEMIC SERVICE (Other)	
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)	2010
(Systems, 1 rogramming, Languages, and Applications) (decimed oner)	
NON-ACADEMIC SERVICE	
Reviewer, Code2040 Application Essays	2020
Reviewer, OpenMined Differential Privacy articles	2020
Judge, DataKind, Data.org, Inclusive Growth and Recovery Challenge	2020
Google Developer Student Club Lead (for University of Vermont)	2019
CDANT WOLTING / DDCDCCAL C	
GRANT WRITING / PROPOSALS	2020
CDS&E Computational and Data-Enabled Science and Engineering	2020
Database Grant Proposal for SageMaths (as Key Personnel) (PI Ben Hutz)	
WRITING / PUBLICATIONS / POSTS	
Contributor, Wikipedia: WikiProject Women in Red/Al Ethics	2020
Tech X Social Impact "Ready! Start: Exploring the Virtual Healthcare Multiverse"	2020
Google Summer of Code "Breaking the Time-Space Barrier with Haskell"	2018
INDUSTRY PhD INVITATIONS	
Participant, Adobe, "The Future of Creativity" (Virtual)	2020
Participant, Microsoft Research, Frontiers in Machine Learning (Redmond, remote)	2020
Participant, Discover Bloomberg: Women in Engineering event (New York, remote)	2020
Participant, Twitter PhD ML Flock Event (New York, Boston office)	2019
DDESS	
PRESS  Venture Poot "All poods systemic solutions to systemic bios, injustice and inequality"	2020
VentureBeat "AI needs systemic solutions to systemic bias, injustice and inequality"	
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	
Speaker, EGG on Air Conference (human-centred AI)	2020
Presenter, VentureBeat's Transform 2020 Wrap-up for panel on Ethics and Al	2020
Moderator, VentureBeat's Transform 2020 panel on Ethics and Al	2020
Interviewed for Podcast, Women of Silicon Valley	2020
Invited Panelist, Career Girls AI Virtual Camp	2020
Invited Speaker, Autodesk Design (Boston Office) on Differential Privacy	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)	
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<b>INDUSTRY</b>	<b>TALKS</b>
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me out in the control of the control	
"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	
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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
Del (Diversity and Inclusion) Invitations (Academic Conferences).	
D&I (Diversity and Inclusion) Invitations (Academic Conferences):	
KDD 2020 D&I Grant (free registration)	2020
ECCV 2020 (free registration courtesy Google Research)	2020

#### Developer Conference Grant/ Scholarship Invitations (Non-Academic Conferences):

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, Stephanie Dinkins and	
Rashida Richardson)	

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

Stanford ICME Summer NLP in Deep Learning Workshop	2020
Participant, IBM Qiskit Global Quantum Computing Summer School	2020
Participant, PL+HCl Swimmer Summer School	2020
(Programming Languages + Human Computer Interaction)	
Participant, MSRI, Decidability, Definability and Computability in Number Theory	2020

## DeepLearning.ai 2020

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

# **ONLINE LEARNING (SELECTED)**

Hyperlink Academy	2020
- The Book is a Program 0 (Publishing a book in Racket)	
- GUIs through Art History 0 (Recreating Periods of Art in History using GUIs)	
FutureLearn	
- "Empire: The Controversies of British Imperialism"	2020
- The Laws of Digital Data, Content and Artificial Intelligence	2020
- "Functional Programming in Haskell"	2017