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-present
Differential Privacy, Fairness, Neural Networks	
Skills: Python, Haskell, LaTeX, Jupyter, SQL, AWS, PySpark, PyTorch, Tensorflow, Git	į
Research Assistant, PLAID Lab (Vermont)	2019-present
Supervisors: Joe Near and David Darais: Research on Provable Fairness and Privacy	
Using Machine Learning. Funded via Amazon Research Fellowship (2020-2022)	
Research Assistant, PLAID Lab (Vermont)	2020
Supervisors: Joe Near and Swati Gupta: Research on Participatory Fairness	
Research Intern, Autodesk Summer 2020 (Pier 9, San Francisco: remote)	2020
Research Intern for Forge Team, Differential Privacy project	
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	
Poster Presentation, 4th MD4SGD 2020 Annual Proceedings	2020
"Towards a Measure of Individual Fairness for Deep Learning" (first author)	
Poster Presentation, Carnegie Mellon's (CMU) Al for Social Good Symposium	2020
"Examining Implicit Bias in Police Data: Lessons Learned about Reproducibility And Transparency in AI"	
"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, Lighthouse3 AI Ethics Mentoring Externship with F. McEvoy (1 of 20 chosen)	2020
Mentee, Code2040 Fellowship with Ben Waber	2020
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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
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
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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)	-
ICERM (Brown University) Encrypted Search Workshop Grant (Lodging provided)	2019
Cornell Number Theory Conference Grant (Lodging provided)	2019

OTHER GRANTS/ FELLOWSHIPS

MSRI (Mathematical Sciences Research Institute) Grants to attend: Optimal Transport and applications to machine learning and statistics 2020 Connections for Women: Derived Algebraic Geometry, Birational Geometry and Moduli Spaces workshop Introductory Workshop: Derived Algebraic Geometry and Birational Geometry And Moduli Spaces NASA L'Space NepwEE Concept Proposal writing programme participant NASA L'Space Proposal/Review Academy (patentable research proposal for funding) NASA L'Space Proposal/Review Academy (patentable research proposal for funding) NASA L'Space Academy (virtual team & mentorship with NASA scientists Level 1) NASA L'Space Academy (virtual team & mentorship with NASA scientists Level 1) NASA L'Space Academy (virtual team & mentorship workshop) NASA L'Space Academy (virtual team & mentorship workshop	OTHER GRANTS/ FELLOWSHIPS	
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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 Volunteer, ICML 2020 (International Conference on Machine Learning) Volunteer, EC'20 (Economics and Computation) Volunteer, ICLR (International Conference on Learning Representations) 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 Panelist, AAAI Try AI Workshop Invited Panelist, CRAFT workshop, FAT* conference (declined offer) 2020 ACADEMIC JOURNALS (Al/Machine Learning) Board Member, AI and Ethics, Springer 2020 ACADEMIC SERVICE (Other) CDS&E Computational and Data-Enabled Science and Engineering 2020 Database Grant Proposal for SageMaths (as Key Personnel) (PI Ben Hutz) Student Volunteer, ICFP (International Conference Functional Programming) 2020	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 AI Socials 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 Member, MD4SG (Mechanism Design for Social Good); Education working group 2020 Chair, AAAI Black in AI Annual Lunch 2020 Panelist, AAAI Try AI Workshop 2020 Invited Panelist, CRAFT workshop, FAT* conference (declined offer) 2020 ACADEMIC JOURNALS (Al/Machine Learning) Board Member, AI and Ethics, Springer 2020 ACADEMIC SERVICE (Other) CDS&E Computational and Data-Enabled Science and Engineering 2020 Database Grant Proposal for SageMaths (as Key Personnel) (PI Ben Hutz) Student Volunteer, ICFP (International Conference Functional Programming) 2020	ACADEMIC SERVICE (Al/Machine Learning)	
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Co-organizer, ACL (Association of Computational Linguistics) Black in AI Socials Volunteer, ICML 2020 (International Conference on Machine Learning) Volunteer, EC'20 (Economics and Computation) Volunteer, ICLR (International Conference on Learning Representations) Nember, 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 JOURNALS (AI/Machine Learning) Board Member, AI and Ethics, Springer ACADEMIC SERVICE (Other) CDS&E Computational and Data-Enabled Science and Engineering Database Grant Proposal for SageMaths (as Key Personnel) (PI Ben Hutz) Student Volunteer, ICFP (International Conference Functional Programming)	Session Facilitator, ICML 2020 for "Recommender System Research in Industry" (1 of 2)	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 Invited Panelist, CRAFT workshop, FAT* conference (declined offer) ACADEMIC JOURNALS (AI/Machine Learning) Board Member, AI and Ethics, Springer 2020 ACADEMIC SERVICE (Other) CDS&E Computational and Data-Enabled Science and Engineering Database Grant Proposal for SageMaths (as Key Personnel) (PI Ben Hutz) Student Volunteer, ICFP (International Conference Functional Programming) 2020	Volunteer ACL (Association of Computational Linguistics)	2020
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 JOURNALS (AI/Machine Learning) Board Member, AI and Ethics, Springer 2020 ACADEMIC SERVICE (Other) CDS&E Computational and Data-Enabled Science and Engineering Database Grant Proposal for SageMaths (as Key Personnel) (PI Ben Hutz) Student Volunteer, ICFP (International Conference Functional Programming) 2020	Co-organizer, ACL (Association of Computational Linguistics) Black in Al Socials	2020
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Invited Panelist, CRAFT workshop, FAT* conference (declined offer) ACADEMIC JOURNALS (Al/Machine Learning) Board Member, Al and Ethics, Springer 2020 ACADEMIC SERVICE (Other) CDS&E Computational and Data-Enabled Science and Engineering Database Grant Proposal for SageMaths (as Key Personnel) (PI Ben Hutz) Student Volunteer, ICFP (International Conference Functional Programming) 2020	Chair, AAAI Black in AI Annual Lunch	2020
ACADEMIC JOURNALS (Al/Machine Learning) Board Member, Al and Ethics, Springer 2020 ACADEMIC SERVICE (Other) CDS&E Computational and Data-Enabled Science and Engineering 2020 Database Grant Proposal for SageMaths (as Key Personnel) (PI Ben Hutz) Student Volunteer, ICFP (International Conference Functional Programming) 2020	Panelist, AAAI Try AI Workshop	2020
Board Member, AI and Ethics, Springer ACADEMIC SERVICE (Other) CDS&E Computational and Data-Enabled Science and Engineering Database Grant Proposal for SageMaths (as Key Personnel) (PI Ben Hutz) Student Volunteer, ICFP (International Conference Functional Programming) 2020	Invited Panelist, CRAFT workshop, FAT* conference (declined offer)	2020
ACADEMIC SERVICE (Other) CDS&E Computational and Data-Enabled Science and Engineering 2020 Database Grant Proposal for SageMaths (as Key Personnel) (PI Ben Hutz) Student Volunteer, ICFP (International Conference Functional Programming) 2020	ACADEMIC JOURNALS (Al/Machine Learning)	
CDS&E Computational and Data-Enabled Science and Engineering 2020 Database Grant Proposal for SageMaths (as Key Personnel) (PI Ben Hutz) Student Volunteer, ICFP (International Conference Functional Programming) 2020	Board Member, AI and Ethics, Springer	2020
Database Grant Proposal for SageMaths (as Key Personnel) (PI Ben Hutz) Student Volunteer, ICFP (International Conference Functional Programming) 2020	ACADEMIC SERVICE (Other)	
Database Grant Proposal for SageMaths (as Key Personnel) (PI Ben Hutz) Student Volunteer, ICFP (International Conference Functional Programming) 2020	CDS&E Computational and Data-Enabled Science and Engineering	2020
Student Volunteer, ICFP (International Conference Functional Programming) 2020	·	
•		2020
	Student volunteer, ICFP (International Conference Functional Programming)	2018

ACADEMIC SERVICE (Othor)	
ACADEMIC SERVICE (Other) Student volunteer, PLDI (Programming Languages Design and Implementation)	2018
	2018
Student volunteer, POPL (Principles of Programming Languages)	2018
Student volunteer, SPLASH	2018
(Systems, Programming, Languages, and Applications) (declined offer)	
NON-ACADEMIC SERVICE	
Reviewer, Code2040 Application Essays	2020
Judge, DataKind, Data.org, Inclusive Growth and Recovery Challenge	2020
Google Developer Student Club Lead (for University of Vermont)	2019
WRITING / PUBLICATIONS / POSTS	
	2018
Google Summer of Code "Breaking the Time-Space Barrier with Haskell"	2016
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
PRESS	
	2020
VentureBeat "AI needs systemic solutions to systemic bias, injustice and inequality"	2020
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
"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
CS Crew GSOC tark (40-minute tark about Google Summer of Code and internships) CS293 Technical Interviewing Workshop Talk	2019
00200 Technical litterviewing Workshop Taik	L U 1 J

Developer Conference G	rants to	attend:
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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)
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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)	

DeepLearning.ai 2020

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

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