Krystal Maughan

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Github: https://github.com/kammitama5

Tel: 607.342. 6970

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

Research Interests: Differential Privacy, Provable Fairness, Machine Learning	
University of Vermont, PhD candidate	2019-present
Differential Privacy, Provable Fairness, Machine Learning	
Skills: Python, R, Haskell, Matlab, LaTeX, Jupyter, SQL, AWS, PySpark, Sparklyr,	Tensorflow, Git
Research Assistant, PLAID Lab (Vermont)	2019-present
Supervisor: Joe Near: Research on Provable Fairness and Privacy	
Using Machine Learning. Funded via Amazon Research Award (2020-2022 PI: J. No	ear, D. Darais)
Research Assistant, PLAID Lab (Vermont)	2020-present
Supervisors: Dr. Joe Near and Dr. S. Gupta: Research on Participatory Fairness	
Microsoft, Applied Scientist PhD Intern, Summer 2021 (Redmond: remote)	2021
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)	2020-2021
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 Technologies, Inc.: 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
PUBLICATIONS:	
Peer-Reviewed Workshop Publications:	
"Towards a Measure of Individual Fairness for Deep Learning"	2020

(Maughan, K. and Near, J.) - presented as poster for MD4SG 2020

PUBLICATIONS:

CCI-L	Reviewed Workshop Publications:	
	"Towards Audibility for Fairness in Deep Learning"	2020
•	(Ngong, I., Maughan, K. and Near, J.)- presented as poster for AFCI at NeurIPS	
*	"Archipelago Penseé" (Maughan, K.)	2020
·	- presented as a poster: RAIS at NeurIPS	2020
N\/IT	ED RESEARCH POSTER PRESENTATIONS	
	"Towards a Measure of Individual Fairness for Deep Learning" (first author)	2021
•	Mediterranean Machine Learning Summer School (M2L) (Winter cohort)	
**	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 Al"	
**	"Towards Audibility for Fairness in Deep Learning"	2020
	(Ngong, I., Maughan, K. and Near, J.)- presented as poster for AFCI at NeurIPS	
	(Algorithmic Fairness through the lens of Causality and Interpretability)	
**	Poster Presentation for RAIS at NeurIPS	2020
	(1st Resistance Al Workshop Proceedings,) "Archipelago Penseé" (first author)	
NVIT	ED RESEARCH TALKS	
**	"Towards a Measure of Individual Fairness for Deep Learning";	2021
	Jane Street PhD Symposium	
**	"Towards a Measure of Individual Fairness for Deep Learning";	2021
	Amazon Science internal presentation (with advisor Dr. J. Near)	
**	"Creating an end to end participatory data survey pipeline with	2020
	variable constraints" (Data Economies and Governance MD4SG working group)	
**	"Towards a Measure of Individual Fairness for Deep Learning";	2020
	Short Presentation given for UVM/CS++ Research Day (20 min talk)	
**	"Personalized Robotic Control using MISL"	2019
*	"Personalized Robotic Control using MISL" for UVM/CS++ Research Day (20 min talk)	2019
	G	2019
RESE	for UVM/CS++ Research Day (20 min talk)	
RESE	for UVM/CS++ Research Day (20 min talk) ARCH AWARDS	itability in
RESE *	for UVM/CS++ Research Day (20 min talk) ARCH AWARDS Outstanding Poster Award for Brilliant Idea Category, "Towards a Measure of Aud	itability in
RESE * MERI	for UVM/CS++ Research Day (20 min talk) EARCH AWARDS Outstanding Poster Award for Brilliant Idea Category, "Towards a Measure of Aud Fairness for Deep Learning", Mediterranean Machine Learning Summer School (2)	itability in
RESE * MERI	for UVM/CS++ Research Day (20 min talk) FARCH AWARDS Outstanding Poster Award for Brilliant Idea Category, "Towards a Measure of Aud Fairness for Deep Learning", Mediterranean Machine Learning Summer School (1985) T-BASED MENTORSHIPS / RESEARCH MENTORSHIPS	itability in 2021)
RESE * MERI Mente Mente	for UVM/CS++ Research Day (20 min talk) FARCH AWARDS Outstanding Poster Award for Brilliant Idea Category, "Towards a Measure of Aud Fairness for Deep Learning", Mediterranean Machine Learning Summer School (2015) T-BASED MENTORSHIPS / RESEARCH MENTORSHIPS ee, Google's CS Research Mentorship Program (CSRMP) with Dr. A. Lees	itability in 2021) 2021
RESE # MERIT Mente Mente Mente	for UVM/CS++ Research Day (20 min talk) FARCH AWARDS Outstanding Poster Award for Brilliant Idea Category, "Towards a Measure of Aud Fairness for Deep Learning", Mediterranean Machine Learning Summer School (ACT-BASED MENTORSHIPS / RESEARCH MENTORSHIPS Research Mentorship Program (CSRMP) with Dr. A. Lees Research Mentorship with Dr. S. Gupta (EC 2020)	itability in 2021) 2021 2021 2020
RESE # MERIT Mente Mente Mente Mente	for UVM/CS++ Research Day (20 min talk) ARCH AWARDS Outstanding Poster Award for Brilliant Idea Category, "Towards a Measure of Aud Fairness for Deep Learning", Mediterranean Machine Learning Summer School (20 T-BASED MENTORSHIPS / RESEARCH MENTORSHIPS ee, Google's CS Research Mentorship Program (CSRMP) with Dr. A. Lees ee, Global Outreach Mentorship with Dr. S. Gupta (EC 2020) ee, LatinX in Al Research Workshop Mentorship with Dr. J. Barajas (ICML 2020)	2021) 2021) 2021 2021 2020 2020

MERIT-BASED GRANTS / SCHOLARSHIPS

TechX Social Impact / Harvard Franklin Fellowship (1 of 12)	2020
USENIX Enigma Grant	2020
Nominee, Microsoft Ada Lovelace Fellowship (1 of 2)	2027
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 Maj	
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OTHER GRANTS/ FELLOWSHIPS	
Grace Hopper Conference	2020
NCWIT/Bloomberg GHC Conference Grant	2020
Women of Color in Technology Complimentary Registration	
Financial Aid Grant, SciPy (Scientific Computing with Python)	2020
MSRI SACNAS Grant	2020
LXAI+BAI@GTC Nvidia Digital DLI Workshop Scholarship Award for DLI workshop	p 2020
"Applications of AI for Anomaly Detection [LDLIW2249] (Deep Learning Institute at	GTC)
ICERM (Brown University) Variable Precision in Mathematical & Scientific Thinking	g 2020
RWC2020 (Real World Crypto: registration, flight, lodging) Grant via IACR	2020
CRA-WP Grad Cohort for Women (covers registration: remote)	2021
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)	
Sage-Days-104 : To work on SageMath Software: Arithmetic Dynamics	2019
Sage Baye 101. To work on Sageman Schware. Animinetto Bynamice	2019 2019
Simons Institute (Berkeley) Error-Correcting Codes and High-Dimensional	
	2019
Simons Institute (Berkeley) Error-Correcting Codes and High-Dimensional	2019 2019
Simons Institute (Berkeley) Error-Correcting Codes and High-Dimensional Expansion Boot Camp (attendee)	2019 2019

OTHER GRANTS/ FELLOWSHIPS

OTHER GRANTS/ FELLOWSHIPS	
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
ACADEMIC REVIEWER	
Reviewer, Springer AI and Ethics Journal	2020 - present
Reviewer, ICLR Distributed and Private Machine Learning workshop	2021
Reviewer for AFCI workshop at NeurIPS (Fairness and Accountability)	2020
Reviewer for Black in AI at NeurIPS workshop	2020
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
Reviewer, Tapia Conference (Panels and Workshops)	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)	
Black in Al Logistics Co-Chair (NeurlPS)	2020
WiML Senior Program and Mentorship Co-Chair, WiML (NeurIPS)	2020
Committee Member, Zoom Infrastructure, EMNLP	2020
Session Facilitator, ICML 2020 for "Recommender System Research in Industry" (1 of 2	2) 2020
Volunteer ACL (Association of Computational Linguistics)	2020
Co-organizer, ACL (Association of Computational Linguistics) Black in Al 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
Member, MD4SG Data and Governance 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
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ACADEMIC SERVICE (Other)	
Panelist, PhD recruiting event (included multiple schools, sponsored by CodePath)	2020
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)	
ACADEMIC ASSOCIATION FOR COMPUTING MACHINERY (ACM) MEMBERSHIPS	3
SIGecom Special Interest Group on Economics and Computation	2020-present
Student Member, International Association of Cryptologic Research (IACR)	2020-present
NON ACADEMIC SERVICE	
NON-ACADEMIC SERVICE Participant - Git Contributors Inclusion Summit	2020
Participant, Git Contributors Inclusion Summit	
Reviewer, Code2040 Application Essays	2020 2020
Reviewer, OpenMined Differential Privacy articles	
Judge, DataKind, Data.org, Inclusive Growth and Recovery Challenge	2020
Google Developer Student Club Lead (for University of Vermont)	2019
GRANT WRITING / PROPOSALS	
GRANT WRITING / PROPOSALS CDS&E Computational and Data-Enabled Science and Engineering	2020
	2020
CDS&E Computational and Data-Enabled Science and Engineering Database Grant Proposal for SageMaths (as Key Personnel) (PI Ben Hutz)	2020
CDS&E Computational and Data-Enabled Science and Engineering Database Grant Proposal for SageMaths (as Key Personnel) (PI Ben Hutz) WRITING / PUBLICATIONS / POSTS	
CDS&E Computational and Data-Enabled Science and Engineering Database Grant Proposal for SageMaths (as Key Personnel) (PI Ben Hutz) WRITING / PUBLICATIONS / POSTS Contributor, Wikipedia: WikiProject Women in Red/Al Ethics	2020
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INDUSTRY PhD INVITATIONS Participant, Discover Bloomberg: Women in Engineering event (New York, remote) 2020 Participant, Twitter PhD ML Flock Event (New York, Boston office) 2019 **PRESS** 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 **INDUSTRY TALKS** Featured by Coursera (Learner Story) 2017 Speaker, EGG on Air Conference (human-centred AI) 2020 Speaker, EGG at Morgan State (talk on Human-centred Al and research) 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, The Data Standard 2020 Interviewed for OpenMined course (Privacy-Preserving Machine Learning and Fairness) 2020 Interviewed for YouTube Series, Tech Girl Thursdays 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 Interviewed for Podcast on Black in AI (1 of 2 persons), iPhone Life Interview 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 Featured Session Clip, End of Year 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 MIT Hacking Racism in Healthcare Challenge (keynote speaker) 2020 PLAID Lab speaker, "What Scientists can learn from Artists" 2020 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 D&I (Diversity and Inclusion) Invitations (Academic Conferences):

2020

2020

KDD 2020 D&I Grant (free registration)

ECCV 2020 (free registration courtesy Google Research)

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)

Doctoral Research with advisor Joe Near	2021-present
Privacy, Law and Policy, taught by Ryan Kriger (Spring)	2021
Cryptography, taught by Christelle Vincent (Spring)	2021
Secure Computation; taught by Joe Near using Python (Fall)	2020
Machine Learning; taught by Safwan Wshah using Python (Spring)	2020
Doctoral Research with advisors Joe Near and David Darais (Spring, Fall)	2019-2020
Software Verification; taught by David Darais using Agda (Fall)	2019
Data Privacy; taught by Joe Near using Python (Fall)	2019
Computer Human Interaction; taught by Josh Bongard (Fall)	2019

CLASSES (AUDIT)

Stanford EE 374 : Internet-Scale Consensus in the Blockchain Era

2021

- Taught by Dr. David Tse through Stanford University
- Audited class, scribed for 1 lecture, Spring 2021

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+HCI Swimmer Summer School	2020
(Programming Languages + Human Computer Interaction)	
Participant, MSRI, Decidability, Definability and Computability in Number Theory	2020

DeepLearning.ai 2020-2021

- Neural Networks and Deep Learning
- Improving Deep Neural Networks: Hyperparameter Regularization and Optimization
- Structuring Machine Learning Projects
- Natural Language Processing Specialization
- Cryptography I
- Cryptography: Boolean Functions, S-boxes and Related Problems

ONLINE LEARNING (SELECTED)

Hyperlink Academy	2020-2021
- Design Neighborhood Scale Software (Ostromian economics and computing)	
- Esoteric Programming Language Theory (Graphical to Impossible programming	languages)
- Language Construction Workshop (Conlang: Linguistics / made a language) (C.	
- The Book is a Program 0 (Publishing a book in Racket) (J. Dueck)	•
- GUIs through Art History 0 (Recreating Periods of Art in History using GUIs) (E.	Lin)
	•
InterAccess	
- Parametric Thinking with Images (Grasshopper3D)	2020
- Generating Images with Shaders (GLSL)	
R Orange County Book Club (6 weeks Mastering Spark with R)	2021
- Presented Chapters 10 and 11 (Distributed R, Extensions in Spark using R)	
- Presented R code exercises relevant to assigned chapters	
R Orange County Workshop	2021
- Modeling Normally Distributed Data with Repeated Measures	2027
Wodeling Normally Distributed Data With Nepedied Wedsares	
Gray Area Festival Workshops	2020
- Conceptual Cartography with Mapbox	
- Data Visualization: Theory to Practice	
Pioneer Works	2020
- Data Visualization as Activism (S. Lavigne)	
- Feminist Data Set (with C. Sinders)	
- AI + Creativity (A. Miller, D. Geers and A. Dorsen)	
- Ar Cocalivity (A. Willich, D. Geers and A. Dorsen)	
FutureLearn	
- "Empire: The Controversies of British Imperialism"	2020
- The Laws of Digital Data, Content and Artificial Intelligence	2020
- "Functional Programming in Haskell"	2017
Wendy's Subway	
- Reading workshop with Che Gossett on Abolitionist Insurgencies	2020
(led by C. Gossett, with lecture guest F. Moten)	2020
- Unsettling Historical Common Sense	
Chactaing Historical Common Conse	
The Improv Group	2020
- Storytelling for Technologists	