# **Krystal Maughan**

## Krystal.maughan@gmail.com

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, Haskell, LaTeX, Jupyter, SQL, AWS, PySpark, Tensorflow, Pytorch, G	Git
Research Assistant, PLAID Lab (Vermont)	2019-present
Supervisors: Joe Near and Emma Tosch: Research on Provable Fairness and Privacy	/
Using Machine Learning. Funded via Amazon Research Award (2020-2022 Pl: J. Nea	ar, D. Darais)
Research Assistant, PLAID Lab (Vermont)	2020-presen
Supervisors: Joe Near and Swati 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
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
PUBLICATIONS:	
"Towards a Measure of Individual Fairness for Deep Learning"	2020
(Maughan, K. and Near, J.) - presented as poster for MD4SG 2020	
"Towards Audibility for Fairness in Deep Learning"	2020
(Ngong, I., Maughan, K. and Near, J.)- presented as poster for AFCI at NeurIF	PS

INVITED 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 AI"	
"Towards Audibility for Fairness in Deep Learning"	2020
(Ngong, I., <b>Maughan, K.</b> and Near, J.)- presented as poster for <b>AFCI at NeurIPS</b>	
(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)	
INVITED RESEARCH TALKS	
"Towards a Measure of Individual Fairness for Deep Learning";	2020
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
for UVM/CS++ Research Day (20 min talk)	
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	
Nominee, Microsoft Ada Lovelace Fellowship (1 of 2)	2020
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 (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

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	
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	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
<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>	
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 for AFCI workshop at NeurIPS (Fairness and Accountability)	2020
Reviewer for Black in AI at NeurIPS workshop	2020

ACADEMIC 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
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 (NeurIPS)	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
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)	
NON-ACADEMIC SERVICE	
Participant, Git Contributors Inclusion Summit	2020
Reviewer, Code2040 Application Essays	2020
Reviewer, OpenMined Differential Privacy articles	2020

GRANT WRITING / PROPOSALS	
CDS&E Computational and Data-Enabled Science and Engineering	2020
Database Grant Proposal for SageMaths (as Key Personnel) (PI Ben Hutz)	

2020

2019

Judge, DataKind, Data.org, Inclusive Growth and Recovery Challenge

Google Developer Student Club Lead (for University of Vermont)

WRITING / PUBLICATIONS / POSTS	
Contributor, Wikipedia: WikiProject Women in Red/Al Ethics	2020
Tech X Social Impact "Impossible Markets and Big Dreams: My interaction with the	2020
COO of Impossible Foods"	
Tech X Social Impact "Ready! Start: Exploring the Virtual Healthcare Multiverse"	2020
Google Summer of Code "Breaking the Time-Space Barrier with Haskell"	2018
Diedking the Time-Space Barrier With Hasken	2010
RESEARCH PhD INVITATIONS	
Mediterranean Machine Learning Summer School (M2L) (Winter cohort)	2021
Winter Institute in Computational Social Science (WICSS) (University of Arizona)	2021
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	
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	
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Speaker, EGG on Air Conference (human-centred AI)	2020
Speaker, EGG on Air Conference (human-centred AI) Speaker, EGG at Morgan State (talk on Human-centred AI and research)	2020
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## OTHER (NON-INDUSTRY) TALKS

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):

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)

Privacy, Law and Policy, taught by Ryan Kriger (Spring)	2021
Secure Computation; taught by Joe Near using Python (Fall)	2020
Machine Learning; taught by Safwan Wshah using Python (Spring)	
Doctoral Research with advisors Joe Near and David Darais (Spring, Fall)	2019-present
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+HCI 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
- Natural Language Processing Specialization

### Hyperlink Academy 2020

- Language Construction Workshop (Conlang) (C. Gorrie)
- 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)

## ONLINE LEARNING (SELECTED)

The Improv Group

- Storytelling for Technologists

InterAccess  Parametria Thinking with Images (Creechanner 2D)	
Developed this Thinking with Images (Creash annex 2D)	
- Parametric Thinking with Images (Grasshopper3D) 20	020
- Generating Images with Shaders (GLSL)	
Gray Area Festival Workshops 20	020
- Conceptual Cartography with Mapbox	
- Data Visualization: Theory to Practice	
Pioneer Works 20	020
- Data Visualization as Activism (S. Lavigne)	
- Feminist Data Set (with C. Sinders)	
- AI + Creativity (A. Miller, D. Geers and A. Dorsen)	
FutureLearn	
- "Empire: The Controversies of British Imperialism" 20	020
- The Laws of Digital Data, Content and Artificial Intelligence 20	020
- "Functional Programming in Haskell" 20	017
Wendy's Subway	
- Reading workshop with Che Gossett on Abolitionist Insurgencies 20	020
- Reading Workshop with one dossett on Abolitionist insurgencies 20	
(led by C. Gossett, with lecture guest F. Moten)	

2020