Krystal Maughan

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

Research Interests: Applied Cryptography, Privacy, Provable Fairness, Machi	ne Learning
University of Vermont, PhD candidate Applied Cryptography, Fully-Homomorphic Encryption, ZK Proofs, Differential Privacy, Machine Learning	2019-present Provable Fairness
Skills: Python, R, Haskell, Matlab, Sage, LaTeX, Jupyter, SQL, AWS, PySpark, Sparkl	yr, Tensorflow, Git
Research Assistant (Vermont) Supervisor: Joe Near: Research on Provable Fairness and Privacy Using Machine Learning. Funded via Amazon Research Award (2020-2022 PI: J. Nea	2019-present r, D. Darais)
Research Assistant, C. Vincent (Vermont) Fully Homomorphic Encryption, ZK Proofs, Applied Cryptography Research	2021-present
Microsoft, Applied Scientist PhD Intern, Summer 2021 (Redmond: remote) COSinE Mgmt DI R&D, Azure E+P Enterprise and Security DI Confidential Project: Wrote Proposal, created Prototype and presented results Mentored by P. Angulo, PhD.	2021
Microsoft Research, Independent Contractor, Summer 2021 (New York: remote) Reinforcement Learning Open Source Fest participant (1 of 12) Vowpalwabbit, Integrate Estimator library into Azure Machine Learning (AML) Mentored by C. Tan and A. Taymanov	2021
Research Intern, Autodesk Summer 2020 (Pier 9, San Francisco: remote) Research Intern for Forge Team, Renyi-Differential Privacy project	2020
Graduate Writing Consultant, Fall 2020 (Vermont) Writing Mentor and Consultant for graduate students Technical Writing Consultant for fields as broad as Materials Science to History	2020-2021
Teacher's Assistant, Fall/Spring 2019-2020 (Vermont) Compiler Construction with Haskell (taught by Joe Near) Advanced Web Design (taught by Bob Erickson)	2019-2020 2020
Programming with Matlab (taught by Radhakrishna Dasari) Data Privacy with Jupyter, Python (taught by Joe Near)	2019

RELEVANT WORK EXPERIENCE Mercury Banking (Haskell fintech): 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 Peer-Reviewed Workshop Publications: "Continual Audit of Individual and Group Fairness in Deployed 2021 Classifiers via Prediction Sensitivity", (Under Submission Review) (Maughan, K., Ngong, I., and Near, J.) "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 NeurIPS "Archipelago Penseé" (Maughan, K.) 2020 - presented as a poster: RAIS at NeurIPS **INVITED RESEARCH POSTER PRESENTATIONS** "Towards Auditability of Individual Fairness for Deep Learning" 2021 Nordic Probabilistic Artificial Intelligence School 2021 (Prob Al) * "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., 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) **INVITED RESEARCH TALKS** 2021 "Towards Audit-ability in Individual Fairness for Deep Learning"; Career Mentoring Workshop: Grad Cohort for Women (1 of 30) "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 for UVM/CS++ Research Day (20 min talk)

RESEARCH AWARDS

Outstanding Poster Award for Brilliant Idea Category, "Towards a Measure of Auditability in Fairness for Deep Learning", Mediterranean Machine Learning Summer School (2021)

OTHER PRESENTATIONS

❖ Brown University <u>SUMS</u>, Maths and Illusion: exhibited a fractal-inspired pop-up book (2021)

MERIT-BASED MENTORSHIPS / RESEARCH MENTORSHIPS	
Mentee, Google's CS Research Mentorship Program (CSRMP) with A. Lees, PhD	2021
Mentee, AiC Connectors Program with Facebook with O. Dalleleau, PhD	2021
Mentee, She256 Blockchain Group with P. Mishra	2021
Mentee, Women in Privacy and Security (WISP), D. Sharma	2021
Mentee, Global Outreach Mentorship with S. Gupta, PhD (EC 2020)	2020
Mentee, LatinX in Al Research Workshop Mentorship with J. Barajas, PhD (ICML 2020)	2020
Mentee, Mentored by Amal Ahmed, PhD (ICFP 2020)	2020
Mentee, Lighthouse3 AI Ethics Mentoring Externship with F. McEvoy (1 of 20 chosen)	2020
Mentee, Code2040 Fellowship with Ben Waber, PhD	2020
MERIT-BASED GRANTS / SCHOLARSHIPS	
Kernel Fellowship Block III via Gitcoin (Security: Zero Knowledge Proofs project)	2021
Gitcoin Scholarship for Women (for Kernel Fellowship Block III)	2021
She256 Mentorship focused on ZK Snarks (6 months)	2021
USENIX Security Conference 2021 (via USENIX Diversity Grant via GREPSEC V)	2021
TechX Social Impact / Harvard Franklin Fellowship (1 of 12)	2020
USENIX Enigma Grant	2021
Nominee, Microsoft Ada Lovelace Fellowship (1 of 2)	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	2021
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 IEEE Symposium on Security and Privacy (student travel grant, complimentary ticket)	2021

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OTHER GRANTS/ FELLOWSHIPS	
4th Annual ZK-Proof Workshop (complimentary ticket)	2021
WISP Privacy+Security Conference	2021
- EU Data Law / De-Identification Workshop (Scholarship via WISP)	
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 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)	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
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
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	00/0.00/0
Racket Summer School (National Science Foundation Grant)	2018-2019
PLMW (Programming Languages Mentorship Workshop)	2018
ICFP (International Conference Functional Programming)	0010
PLMW(Programming Languages Mentorship Workshop)	2018
PLDI (Programming Languages Design and Implementation)	0010
OPLSS (Oregon Programming Languages Summer School Grant) - declined offer	2018
ACADEMIC REVIEWER	
Reviewer, Springer AI and Ethics Journal	2020 - present
Reviewer, BlackAIR Summer Research Grant Program	2021
Reviewer, ICLR Distributed and Private Machine Learning workshop	2021
Committee Reviewer, HCI Track, GHC (Grace Hopper Conference)	2021
Reviewer, PML4DC (Practical ML for Developing Countries) workshop, ICLR	2021
Reviewer, Tapia Conference (Panels and Workshops)	2021
Reviewer for AFCI workshop at NeurIPS (Fairness and Accountability)	2020

ACADEMIC REVIEWER	
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 Al for AAAI	2020
ACADEMIC SERVICE (Al/Machine Learning)	
Co-chair, ICLR Diversity, Equity and Inclusion	2022
Privacy Enhancing Technologies Symposium, Student Co-Organizer	2021
Black in AI 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)	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 IOUDNALS (Al/Machine Leaving)	
ACADEMIC JOURNALS (Al/Machine Learning) Board Member, Al and Ethics, Springer	2020
ACADEMIC SERVICE (Other) Panelist, PhD recruiting event (included multiple schools, sponsored by CodePath)	2020
	2020
Student Volunteer, ICFP (International Conference Functional Programming)	2018
Student volunteer, ICFP (International Conference Functional Programming)	
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	
SIGecom Special Interest Group on Economics and Computation	2020-present
Student Member, International Association of Cryptologic Research (IACR)	2020-present
NON-ACADEMIC SERVICE	
Invited Finalist Judge, Technovation, AI for Good	2021
Participant, Git Contributors Inclusion Summit	2020
Reviewer, Code2040 Application Essays	2020

NON-ACADEMIC SERVICE	
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
Reviewer, Travel Grant Applications, Clojure Conj (2 rounds)	2017
GRANT WRITING / PROPOSALS	
CDS&E Computational and Data-Enabled Science and Engineering	2020
Database Grant Proposal for SageMaths (as Key Personnel) (PI Ben Hutz, PhD)	
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
RESEARCH PhD INVITATIONS	
Participant, <u>GREPSEC V</u> :	2021
- (Graduate Students in Privacy and Security Early Career Workshop)	
Participant, Nordic Probabilistic Artificial Intelligence School 2021: ProbAl	2021
- 1 of 60 scholarship recipients (27%)	
Participant, Doctoral Consortium, <u>ACM FAccT</u> :	2021
(ACM Conference on Fairness, Accountability and Transparency)	
Participant, CRAFT workshop at ACM FAccT	2021
- Inspecting algorithms ins social media platforms	
- Rethinking Demographic Data Infrastructures for Algorithmic Fairness	
Participant, CHIMe CHI Mentoring Workshop Symposium	2021
Participant, Mediterranean Machine Learning Summer School (M2L) (Winter cohort)	2021
Participant, Isogeny-Based Cryptography Winter School	2021

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Participant, Post-Quantum Networks Workshop

Howard-Mathematica (declined offer)

Cybersecurity", The Alan Turing Institute

Cybersecurity", The Alan Turing Institute

The Alan Turing Institute

Participant, Summer Institute in Computational Social Science (SICSS)

Participant, Winter Institute in Computational Social Science (WICSS)

Invited Participant, "Key themes for informing a Research Roadmap",

Invited Participant,"Threats and Opportunities for AI in Cybersecurity"

Participant, Self Organizing Conference on Machine Learning (SOCML)

Simons Institute, Innovations in Theoretical Computer Science (ITCS)

Machine Learning, and Privacy session, Moderated by U. Erlingsson

Invited Participant, "Society-centric approaches to AI challenges in

Invited Participant, "Environmental Enables for AI challenges in

organized by I. Goodfellow (1 of 9 chosen)

INDUSTRY PhD INVITATIONS

Participant, Facebook, Amplified: Above & Beyond Computer Science Program (PhDs) Participant, Galois 1st Summer School on Trustworthy Machine Learning (1 of 35) Participant (via CSRMP), Google PhD Fellowship Summit Participant, Jane Street PhD Symposium (New York, remote) Participant, JP Morgan, Advancing Black Pathways in Data Science Participant, TwoSigma Mock Interview Day for Early Career Women in STEM Participant, Adobe, "The Future of Creativity" (Virtual) Participant, Microsoft Research, Frontiers in Machine Learning (Redmond, remote) Participant, Discover Bloomberg: Women in Engineering event (New York, remote) Participant, Twitter PhD ML Flock Event (New York, Boston office)	2021 2021 2021 2021 2021 2021 2020 2020
PRESS	
Featured in the "Black Girls CODE the Future" Coloring Book	2021
NCWIT, chosen (1 of 2) to Congratulate Dr. Gladys West for Pioneer Award (virtual)	2021
MacArthur Foundation profile on Black in AI organization's Impact	2021
VentureBeat "Al 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	
Student Presenter for Microsoft Research's Reinforcement Learning Open Source Fest	2021
Invited Panelist, Springer AI and Ethics Board for The Algol Conference	2021
Invited Panelist, Springer Ar and Ethics Board for The Algor Conference Invited Panelist, Technovation Al Prize	2021
Featured by Coursera (Learner Story)	2027
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)	
Interviewed for YouTube Series, Tech Girl Thursdays	2020
Interviewed for Podcast, Women of Silicon Valley	2020
Invited Panelist, Career Girls AI Virtual Camp	2020-2021
Invited Parisins, Garder Sine A. Virtual Gamp 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
Wendy's Subway, Invited Guest, Audiobook, "Turn Illness into a Weapon"	2021
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OTHER (NON-INDUSTRY) TALKS	
Invited Panelist, Peer-connected Undergraduate Research Exploration in Computer	2021
and Information Science and Engineering (PRE.CISE)	
University of Vermont, CIS196, Privacy Law Research Talk	2021
BlackAIR Research Grant speaker	2021
MIT Hacking Racism in Healthcare Challenge (keynote speaker)	2020
PLAID Lab speaker, "What Scientists can learn from Artists"	2020
PLAID Lab Speaker, "Information Theory: from Spacecraft to Blockchain"	2021
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
University of Vermont, CS293 Technical Interviewing Workshop Talk	2019
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CLASSES (PhD)	
Doctoral Research with advisor Joe Near	2021-present
Information Theory, taught by Jeff Frolik (Fall)	2021
Abstract Algebra I taught by Puck Rombach (Fall)	2021
Privacy, Law and Policy, taught by Ryan Kriger (Spring)	2021
(Post-quantum) Cryptography, taught by Christelle Vincent (Spring)	2021
Secure Distributed 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
Data Privacy; taught by Joe Near using Python (Fall)	2019
Software Verification; taught by David Darais using Agda (Fall)	2019
Computer Human Interaction; taught by Josh Bongard (Fall)	2019
Computer Human Interaction, taught by Josh Bongaru (Fall)	2019
EXCHANGE CLASSES (PhD)	
Probabilistic Artificial Intelligence DT8122	2021
Norwegian University of Science and Technology (Virtual)	
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 Lecture 11, Spring 2021	
University of Vermont: CS124, Algorithms, taught by J. Hibbeler	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 Va	alley;
guests included Dr. Simone Browne, Stephanie Dinkins and Rashida Richardson)	
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
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CLASSES (RELATED)

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 2020-2021 Cryptography: Boolean Functions, S-boxes and Related Problems 2020-2021 Hyperlink Academy 2020-2021 Design Neighborhood Scale Software (Ostromian economics and computing) Digital Alchemy (digital file formats, data manipulation) - Artificial World Building (genetic algorithms, reinforcement learning, cellular automata) - Esoteric Programming Language Theory (Graphical to Impossible programming languages) Language Construction Workshop (Conlang: Linguistics / made a language) (C. Gorrie) Hyperlink Academy 2020-2021 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) WORKSHOPS (RELATED) R Orange County Book Club (6 weeks Mastering Spark with R) 2021 - Presented Chapters 10 and 11 (Distributed R, Extensions in Spark using R) R Orange County Book Club (6 weeks Text Mining with R) - Presented Chapter 7 (Twitter data Case Study in Text Mining with R) Presented R code exercises relevant to assigned chapters R Orange County Workshops 2021 - Modeling Normally Distributed Data with Repeated Measures (February) Transforming Data into Dashboards with Tableau (March) - R Virtual Science Hackathon (April) (project-based) R Nimble virtual short course (C. Paciorek) 2021 Basic concepts on converting BUGS and JAGS models MCMC sampling, model components for Bayesian non-parametric distributions University of Vanderbilt Regression Modeling Strategies Short Course 2021 Four day course on regression modeling and causal models Linear models, logistic and ordinal regression (F. Harrell, Jr., PhD, D. Levy, PhD) Brown University Applied Mathematics 2021 Contributed Artwork to SUMS on Mathematics and Illusion

(SUMS: Symposium for Undergraduates in Mathematical Sciences)

CLASSES (RELATED) Gray Area Festival Workshops - Conceptual Cartography with Mapbox - Data Visualization: Theory to Practice	2020
Pioneer Works - Data Visualization as Activism (S. Lavigne) - Feminist Data Set (with C. Sinders) - AI + Creativity (A. Miller, D. Geers and A. Dorsen)	2020
FutureLearn - "Empire: The Controversies of British Imperialism" - The Laws of Digital Data, Content and Artificial Intelligence - "Functional Programming in Haskell"	2020 2020 2017
 Wendy's Subway Rea Tajiri's workshop on Archival Practices - Speculative Imaginings Reading workshop with Che Gossett on Abolitionist Insurgencies (led by C. Gossett, with lecture guest F. Moten, contributed to published Zine) Unsettling Historical Common Sense 	2021 2020
D&I (Diversity and Inclusion) Invitations (Academic Conferences): KDD 2020 D&I Grant (free registration)	2020

HACKATHONS

R Data Hackathon 2021, <u>First Place</u>, "Cast and Gender Roles in Movie Data"

ECCV 2020 (free registration courtesy Google Research)

2021

2020

- Our group won First place at the R Data Hackathon 2021 for Best Visualization

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

AppSec (LA) 2019, TechTogetherBoston 2020, Twilio's Signal Conf 2019, Curry On! 2019, RustConf 2018, EARL Seattle 2018 (declined offer), 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

NON-ACADEMIC MEMBERSHIP

Community Board, Black In Al	2020-present
Member, Women in Number Theory	2018-present
Member, She256	2021-present
Member, Women in Security and Privacy (WISP)	2020-present