Krystal Maughan

Krystal.maughan@gmail.com

Github: https://github.com/kammitama5

Tel: 607.342. 6970

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

Research Interests: Supersingular Isogeny Cryptography, Mathematical Cryptography	tography
University of Vermont, PhD candidate	2019-present
RESEARCH EXPERIENCE:	
Research Assistant (Vermont)	2021-2024
Supervisors: J. Near, C. Vincent: Research on Isogeny Graph Cryptography, Mathemati	cal Cryptography
Research Assistant (Vermont)	2019-2021
Supervisor: Joe Near: Research on Provable Fairness and Privacy	
Using Machine Learning. Funded via Amazon Research Award (2020-2022 PI: J. Near,	D. Darais)
Graduate 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)	
GRANT WRITING / PROPOSALS	
Microsoft Research, Reinforcement Learning Open Source Festival Proposal (Awarded \$10,000)	2021
CDS&E Computational and Data-Enabled Science and Engineering	2020
Database Grant Proposal for SageMaths (as Key Personnel) (PI Ben Hutz, PhD) (not awarded)
 Google Summer of Code, Proposal to Haskell.org (Awarded \$6,000) 	2018
Helium Grant, (for exploring questions on the edge of mainstream thinking) (Awarded \$1000)	2018
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, PhD	2021
Mentee, Women in Privacy and Security (WISP), D. Sharma, PhD	2021
Mentee, Global Outreach Mentorship with S. Gupta, PhD (EC 2020)	2020
Mentee, LatinX in Al Research Workshop Mentorship, Prof C. White (NeurlPS 2021)	2021
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

ACADEMIC REVIEWER

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 AFCR workshop at NeurIPS (Fairness, Accountability, Robustness)	2021
Reviewer for AFCI workshop at NeurIPS (Fairness and Accountability)	2020
Reviewer for Black in AI at NeurIPS workshop	2020, 2021
Reviewer and Programme Committee Member, LXAI@ICML Workshop	2020
Committee Reviewer, HCl 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 JOURNALS (Al/Machine Learning)	
Board Member, AI and Ethics, Springer	2020
RESEARCH PhD INVITATIONS	
Participant, <u>GREPSEC V</u> :	2021
- (Graduate Students in Privacy and Security Early Career Workshop)	
Participant, Isogeny-Based Cryptography Winter School	2021
Participant, Post-Quantum Networks Workshop	2021
Participant, PRIMA Summer School	2021
- Rational curves and moduli spaces in arithmetic geometry	
Initiative for Cryptocurrencies and Contracts (IC3) Blockchain Bootcamp	2021
- Worked on group project : Fairness consensus for Miner Extractable Value (MEV	/s)
- Implemented Aequitas protocol from paper with authors for fairness simulation	
- One of top four winning teams chosen	
Participant, Scottish Programming Languages and Verification School	2021
Invited Participant, "Key themes for informing a Research Roadmap",	2021
The Alan Turing Institute:	
- Invited Participant,"Threats and Opportunities for AI in Cybersecurity"	2021
- Invited Participant, "Society-centric approaches to AI challenges in	2021
- Invited Participant, "Environmental Enables for AI challenges in	2021
Participant, Self Organizing Conference on Machine Learning (SOCML)	2021
- Machine Learning, and Privacy session, Moderated by U. Erlingsson	2021
- organized by I. Goodfellow (1 of 9 chosen)	
Simons Institute, Average-Case Complexity: From Cryptography to Statistical Learning	2021
Simons Institute, Innovations in Theoretical Computer Science (ITCS)	2021
Simons Institute, Geometric Methods in Optimization and Sampling Bootcamp	2021
Participant, Community-Driven Cryptography Seminar	2021
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MERIT-BASED GRANTS / SCHOLARSHIPS	

2021

Google Grace Hopper Conference (GHC) Scholarship

WISP & Black Hat USA Briefings Scholarship (1 of 25) Kernel Fellowship Block III via Gitcoin (Security: Zero Knowledge Proofs project) Gitcoin Scholarship for Women (for Kernel Fellowship Block III) 2021 She256 Mentorship focused on ZK Snarks (6 months) USENIX Security Conference 2021 (via USENIX Diversity Grant via GREPSEC V) 2021 USENIX Enigma Grant CRAS Workshop participant (NASA Community College Aerospace Scholars) Who's Who' Peggy Williams Memorial Scholarship/ Best BFA Award (Best of Major) OTHER GRANTS/ FELLOWSHIPS Upstate Number Theory Conference 2021 (lodging provided) UEEE Symposium on Security and Privacy (student travel grant, complimentary ticket) WISP Privacy+Security Conference 1021 LEEE Symposium on Security and Privacy (student travel grant, complimentary ticket) WISP Privacy+Security Conference 1021 LEEE Symposium on Security Conference C	MERIT-BASED GRANTS / SCHOLARSHIPS	
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### Annual ZK-Proof Workshop (complimentary ticket) ### WISP Privacy+Security Conference - EU Data Law / De-Identification Workshop (Scholarship via WISP) ### ICERM (Brown University) Variable Precision in Mathematical & Scientific Thinking ### RWC2020 (Real World Crypto: registration, flight, lodging) Grant via IACR ### Sage-Days-104: To work on SageMath Software: Arithmetic Dynamics ### Simons Institute (Berkeley) Error-Correcting Codes and High-Dimensional ### Expansion Boot Camp (attendee) ### ICERM (Brown University) Encrypted Search Workshop Grant (Lodging provided) ### Cornell Number Theory Conference Grant (Lodging provided) ### MSRI (Mathematical Sciences Research Institute) Grants to attend: ### Optimal Transport and applications to machine learning and statistics ### Connections for Women: - Derived Algebraic Geometry, Birational Geometry and Moduli Spaces workshop - Introductory Workshop: Derived Algebraic Geometry and Birational Geometry ### And Moduli Spaces ### Racket Summer School (National Science Foundation Grant) ### PLDW (Programming Languages Mentorship Workshop) ### PLDW (Programming Languages Mentorship Workshop) ### PLDW (Programming Languages Mentorship Workshop) ### PLDI (Programming Languages Mentorship Workshop) ### PLDI (Programming Languages Mentorship Workshop) ### PLDI (Programming Languages Design and Implementation) ### OPLSS (Oregon Programming Languages Summer School Grant) - declined offer ### ACADEMIC SERVICE ### Panelist, PhD recruiting event (included multiple schools, sponsored by CodePath) ### Student Volunteer, ICFP (International Conference Functional Programming) ### Student Volunteer, PLDI (Programming Languages) Design and Implementation) ### 2018 ### Student Volunteer, POPL (Principles of Programming Languages) ### Student Volunteer, POPL (Principles of Programming Languages) ### Student Volunteer, POPL (Principles of Programming Languages) ### 2018	Upstate Number Theory Conference 2021 (lodging provided)	2021
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Expansion Boot Camp (attendee) ICERM (Brown University) Encrypted Search Workshop Grant (Lodging provided) Cornell Number Theory Conference Grant (Lodging provided) MSRI (Mathematical Sciences Research Institute) Grants to attend: Optimal Transport and applications to machine learning and statistics Connections for Women: Derived Algebraic Geometry, Birational Geometry and Moduli Spaces workshop Introductory Workshop: Derived Algebraic Geometry and Birational Geometry And Moduli Spaces Racket Summer School (National Science Foundation Grant) PLMW (Programming Languages Mentorship Workshop) 1CFP (International Conference Functional Programming) PLMW(Programming Languages Mentorship Workshop) 2018 PLDI (Programming Languages Mentorship Workshop) OPLSS (Oregon Programming Languages Summer School Grant) - declined offer 2018 ACADEMIC SERVICE Panelist, PhD recruiting event (included multiple schools, sponsored by CodePath) Student Volunteer, ICFP (International Conference Functional Programming) Student volunteer, ICFP (International Conference Functional Programming) Student volunteer, PLDI (Programming Languages Design and Implementation) 2018 Student volunteer, POPL (Principles of Programming Languages) Student volunteer, SPLASH	Sage-Days-104 : To work on SageMath Software: Arithmetic Dynamics	2019
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INDUSTRY PhD INVITATIONS

INDUSTRY PRID INVITATIONS	
Participant, JP Morgan, Advancing Black Pathways in AI & Quantitative Modeling Summ	nit 2021
Participant, Facebook, Amplified: Above & Beyond Computer Science Program (PhDs)	2021
Participant, Facebook's Amplified: Virtual Vivid in Research	2021
Participant, Galois 1st Summer School on Trustworthy Machine Learning (1 of 35)	2021
Participant (via CSRMP), Google PhD Fellowship Summit	2021
Participant, Jane Street PhD Symposium (New York, remote)	2021
Participant, JP Morgan, Advancing Black Pathways in Data Science	2021
Participant, TwoSigma Mock Interview Day for Early Career Women in STEM	2021
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
GRADUATE SCHOOL INTERNSHIPS	
Microsoft, PhD Intern, Summer 2021 (Redmond: remote)	2021
Microsoft Research, Independent Contractor, Summer 2021 (New York: remote)	
Autodesk, PhD Intern, Summer 2020 (Pier 9, San Francisco: remote)	2020
RELEVANT WORK / INDUSTRY 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
NON-ACADEMIC SERVICE	
Invited Finalist Judge, Technovation, AI for Good	2021
Participant, Git Contributors Inclusion Summit	2020
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
Reviewer, Travel Grant Applications, Clojure Conj (2 rounds)	2017
OTHER (NON-INDUSTRY) TALKS	
"Isogeny Graph Cryptography", School for Poetic Computation, Re-learning to love Mat	hs 2021
"Isogeny Graph Cryptography", School for Poetic Computation, "Learning to Love Maths	3" 2021
Invited Panelist, Peer-connected Undergraduate Research Exploration in Computer	2021
and Information Science and Engineering (<u>PRE.CISE</u>)	
University of Vermont, CIS196, Privacy Law Research Talk	2021
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
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CLASSES (PhD)

Doctoral Research with advisors Joe Near and Christelle Vincent 2021-present

CLASSES (PhD)

Abstract Algebra IV: Special Topics (Elliptic Curves), taught by Christelle Vincent	2022
Abstract Algebra II, taught by Christelle Vincent (Fields, Rings) (Spring)	2022
Random Probabilistic Graphs, taught by Puck Rombach (Spring)	2022
Abstract Algebra I taught by Puck Rombach (Commutative Group theory) (Fall)	2021
Abstract Algebra III taught by Christelle Vincent : Prep for Maths Quals (Fall)	2021
(Post-quantum) Mathematical Cryptography, taught by Christelle Vincent (Spring)	2021
Privacy, Law and Policy, taught by Ryan Kriger (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

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

CLASSES (RELATED)

Rewriting the Code (RTC) Blockchain Basics + Developer Workshop 2021

HACKATHONS

R Data Hackathon 2021, First Place, "Cast and Gender Roles in Movie Data" 2021

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

Initiative for Cryptocurrencies and Contracts (IC3) Blockchain Bootcamp 2021

- Worked on group project : Fairness consensus for Miner Extractable Value (MEVs)
- Implemented Aequitas protocol from <u>paper</u> with authors for fairness simulation
- One of top four winning teams chosen

Skills: Python, Haskell, Matlab, Sage, (learning Rust and R), LaTeX, Jupyter, SQL, AWS, PySpark, Sparklyr, Tensorflow, Git

ACADEMIC ASSOCIATION FOR COMPUTING MACHINERY (ACM) MEMBERSHIPS

Student Member, International Association of Cryptologic Research (IACR)	2020-present
SIGecom Special Interest Group on Economics and Computation	2020-2021

NON-ACADEMIC MEMBERSHIP

Member, Women in Number Theory	2018-present
Member, QVNTS (Quebec-Vermont Number Theory Seminar)	2021-present
Member, Women in Combinatorics	2021-present
Member, Association for Women in Mathematics	2021-present
Member, She256	2021-present
Member, Women in Security and Privacy (WISP)	2020-present