Krystal Maughan

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Github: https://github.com/kammitama5

Tel: 607.342. 6970

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

Research Interests: Isogeny-Based Cryptography, Mathematical Cryptography, Al Interpretability, Game Theory, Random Processes, Combinatorics

University of Vermont, PhD candidate Computer Science PhD student, minor in Pure Mathematics	2019-present
RESEARCH EXPERIENCE:	
Research Assistant (Vermont)	2021-present
PhD Supervisors: C. Vincent, J. Near: Research on Isogeny-Based Cryptography Research Assistant: P. Rombach: Research on Computational Combinatorics	2022-present
Research Assistant (Vermont)	2019-2022
Supervisor: Joe Near: Research on Provable Fairness and Privacy Using Machine Le Funded via Amazon Research Award (2020-2022 PI: J. Near, D. Darais).	arning.
Working Preprints:	
Mathematical Cryptography: Work on Compositional Isogeny Schemes (ongoing (Mentor: C. Vincent)	ng) 2022
 Combinatorics: Work on Computational Combinatorial Graph Theory research (Mentor: M. Rombach) (ongoing) 	2022
Preprints:	
"Price of Anarchy in Selfish Routing on the Lightning Network" (ongoing)	2022
(R. Pickhardt, S. Alscher, K. Maughan)	
* "Differential Privacy Paper" (ongoing)	2022
(Maughan, K. and Near, J.)	2022
Prediction Sensitivity: Continual Audit of Counterfactual Fairness in Deployed Classifiers (Maughan, K., Ngong, I., Near, J.) (ongoing)	2022
 "Continual Audit of Individual Fairness in Deployed Classifiers via Prediction 	2021
Sensitivity" (Maughan, K , I. Ngong and J. Near)	2021
Workshop Publications:	
"Towards a Measure of Individual Fairness for Deep Learning"	2020
(Maughan, K. and Near, J.) - presented as poster for MD4SG	
"Towards Auditability for Fairness in Deep Learning"	2020
(Ngong, I., Maughan, K. and Near, J.)- presented as poster for AFCI at Neurl	PS
Workshop Conference Posters:	
"Compositional Isogeny Schemes"- presented as poster at ACM Richard Tap Conference (Managem K)	ia 2022
Conference (Maughan, K) ❖ "Archipelago Penseé" (Maughan, K.)	2020
Presented writing and artwork as poster for RAIS (Resistance AI) at NeurIPS	

Whitepapers:

wintepapers.	0004
 Client Telemetry Aggregation, Microsoft internal (joint work with: P. Angulo, PhD) Collaboration on Other Research-Related Projects 	2021
❖ OpenMined Medical Federated Learning Program (ongoing)	2022
(joint work with with several co-authors)	2022
Graduate Teacher's Assistant, Fall/Spring 2019-2020 (Vermont) Compiler Construction with Haskell (taught by Joe Near) Advanced Web Design (taught by B. Erickson)	2019-2020 2020
Programming with Matlab (taught by R. Dasari)	2019
Data Privacy with Jupyter, Python (taught by J. Near)	
GRANT WRITING / PROPOSALS	
Summer of Bitcoin, "Price of Anarchy in Selfish Routing On the Lightning Network" (Research proposal with 0.4% acceptance rate, total award \$3,000)	2022
COST Action Proposal OC-2021-1-25315 "Mathematics and Algorithmics of Group actions and Isogenies for Cryptography" (Secondary Proposer)	2021
Microsoft Research, Reinforcement Learning Open Source Festival Proposal (Awarded \$10,000)	2021
CDS&E Computational and Data-Enabled Science and Engineering Database Grant Proposal for SageMaths (as Key Personnel) (PI B. Hutz, PhD) (not awarded)	2020
Google Summer of Code, Proposal to Haskell.org (Awarded \$6,000)	2018
Helium Grant, (for exploring questions on the edge of mainstream thinking) (1 of 11 chosen out of 700 applicants; Awarded \$1,000)	2018
RESEARCH AWARDS	
Best Poster, Brilliant Idea Category, Mediterranean Machine Learning Summer School	2021
MERIT-BASED MENTORSHIPS / RESEARCH MENTORSHIPS	
Mentee, Algorithmic Game Theory Workshop (AGT), Economics and Computation - (mentor: H. Zhang, PhD), paper dissection and Ask me Anything session	2022
Mentee, AiC Connectors Program with Facebook, with S. Lim, PhD	2022
Mentee, BlackComputeHer Fellowship, with Y. Rankin, PhD, A. Robinson, M.Ed	2022
Mentee, Microsoft's Tech Resilience (mentors: O. Kroshkina, M. Ward)	2022
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, Algorithmic Game Theory (AGT), Economics and Computation Conference - Global Outreach Mentorship with S. Gupta, PhD (EC 2020)	2020
Mentee, LatinX in Al Research Workshop Mentorship, C. White, PhD (NeurIPS 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

MERIT-BASED MENTORSHIPS / RESEARCH MENTORSHIPS	
Mentee, Code2040 Fellowship with Ben Waber, PhD	2020
ACADEMIC REVIEWER	
Reviewer, Springer AI and Ethics Journal	2020 - present
Reviewer, PML4DC (Practical Machine Learning for Developing Countries), ICLR	2021- 2022
Reviewer, Algorithmic Fairness through the Lens of Causality and Privacy - Extended Abstract and Paper Track	2022
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 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, 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 - 2022
Reviewer, Travel Grant Applications, Black in Al for AAAI	2020
ACADEMIC JOURNALS (Al/Machine Learning)	
Board Member, AI and Ethics, Springer	2020
REVIEWER (NON-ACADEMIC PEDAGOGICAL)	
Published Book, "Effective Haskell" by R. Skinner	2022
Medium Post, "Pure Print Style Debugging in Haskell" by R. Skinner	2022
RESEARCH PhD INVITATIONS (ABRIDGED)	
Participant, Doctoral Consortium at ACM Richard Tapia Conference (Washington, D.C.)	
Participant, 1st Roots of Unity Summer School: Arithmetic Geometry group (fully-funded)	2022
(focus on Arithmetic Geometry and Arithmetic Statistics with six PhD students; also	
Invited to proceeding AWM Research Symposium at University of Minnesota (UMN))	
Invited Participant, IAS/ Park City Mathematics Institute (PCMI)	2022
Graduate Summer School, Computational Number Theory (fully-funded: declined offer)	
Virtual Participant, Preliminary Arizona Winter School: Heights and Model Theory	2022
- "Introduction to Model Theory with Applications" with R. Nagloo	
Virtual Participant, 16th International Symposium on Orthogonal Polynomials,	2022
Special Functions and Applications	
Virtual Participant, Random : The Conference on Randomization and Computation	2022
Virtual Participant, BIRS, Algebraic Methods in Coding Theory and Communication	2022
Virtual Participant, COGENT: Cohomology, Geometry and Explicit Number Theory	2022
Virtual Participant, Stinson66: New Advances in Designs, Codes and Cryptography	2022
Virtual Attendee, Recent Advances on Total Search Problems	2022
Virtual Participant, Arizona Winter School	2022
- Automorphic Forms beyond GL2: Unitary Groups Study Group (mentor E. Eische	
Virtual Participant, West Coast Number Theory (WCNT): Problems in Number Theory	2021

RESEARCH PhD INVITATIONS (ABRIDGED)	
Participant, Community-Driven Cryptography Seminar (Brown / John Hopkins)	2021-present
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 (ME)	<u>/s</u>)
- Implemented Aequitas protocol from paper with authors for fairness simulation	
- One of top four winning teams chosen	
The Alan Turing Institute:	
 Invited Participant, "Threats and Opportunities for AI in Cybersecurity" 	2021
- Invited Participant, "Society-centric approaches to AI challenges in	2021
Participant, Scottish Programming Languages and Verification School	2021
Invited Participant, "Key themes for informing a Research Roadmap",	2021
Alan Turing Institute, Invited Participant, "Environmental Enables for AI challenges in"	2021
Simons Institute, Average-Case Complexity: From Cryptography to Statistical Learning	2021
Simons Institute, Optimization Under Symmetry	2021
Simons Institute, Innovations in Theoretical Computer Science (ITCS)	2021
Simons Institute, Geometric Methods in Optimization and Sampling Bootcamp	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)	
MERIT-BASED GRANTS / FELLOWSHIPS / SCHOLARSHIPS (ABRIDGED)	
(Privacy Engineering Practice and Respect) PEPR Grant, S&P Oakland	2022
Fellow, BlackComputeHER (2022-2023) (1 of 11)	2022
Scholarship winner (to attend Richard Tapia Celebration of Diversity in Computing)	2022
- (registration, flight, hotel costs, Washington D.C.)	
Google Grace Hopper Conference (GHC) Scholarship	2021
WISP & Black Hat USA Briefings Scholarship (1 of 25)	2021
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
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 (ABRIDGED)	
Northeast Combinatorics, Discrete Maths Day	2022
Upstate Number Theory Conference 2021 (lodging provided)	2021
IEEE Symposium on Security and Privacy (student travel grant, complimentary ticket)	2021
The Cymposium on occurry and I heacy (student travel grant, complimentary tloket)	2021

OTHER GRANTS/ FELLOWSHIPS (ABRIDGED)	
4th Annual ZK-Proof Workshop (complimentary ticket)	2021
WISP Privacy+Security Conference	2021
- EU Data Law / De-Identification Workshop (Scholarship via WISP)	
ICERM (Brown University) Variable Precision in Mathematical & Scientific Thinking	2020
RWC2020 (Real World Crypto: registration, flight, lodging) Grant via IACR	2020
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)	2070
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:	2010
Optimal Transport and applications to machine learning and statistics	2020
Connections for Women:	2019
- Derived Algebraic Geometry, Birational Geometry and Moduli Spaces workshop	2013
- Introductory Workshop: Derived Algebraic Geometry and Birational Geometry	
And Moduli Spaces	
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 SERVICE (ARRIDGED)	
ACADEMIC SERVICE (ABRIDGED) Co-Organizer, Co-submitting Summer Workshop, ICLP (with P. Liu)	2022 2023
Co-Organizer, Co-submitting Summer Workshop, ICLR (with R. Liu)	2022, 2023
Co-Organizer, Co-submitting Summer Workshop, ICLR (with R. Liu) ICLR Program Committee, ICLR DEI Committee (with R. Liu)	2022, 2023
Co-Organizer, Co-submitting Summer Workshop, ICLR (with R. Liu) ICLR Program Committee, ICLR DEI Committee (with R. Liu) Panelist, Google CSRMP (Computer Science Research Mentorship Program)	2022, 2023 2022
Co-Organizer, Co-submitting Summer Workshop, ICLR (with R. Liu) ICLR Program Committee, ICLR DEI Committee (with R. Liu) Panelist, Google CSRMP (Computer Science Research Mentorship Program) Panelist, PhD recruiting event (included multiple schools, sponsored by CodePath)	2022, 2023 2022 2020
Co-Organizer, Co-submitting Summer Workshop, ICLR (with R. Liu) ICLR Program Committee, ICLR DEI Committee (with R. Liu) Panelist, Google CSRMP (Computer Science Research Mentorship Program) Panelist, PhD recruiting event (included multiple schools, sponsored by CodePath) Student Volunteer, ICFP (International Conference Functional Programming)	2022, 2023 2022 2020 2020
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Co-Organizer, Co-submitting Summer Workshop, ICLR (with R. Liu) ICLR Program Committee, ICLR DEI Committee (with R. Liu) Panelist, Google CSRMP (Computer Science Research Mentorship Program) 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) Student volunteer, POPL (Principles of Programming Languages) Student volunteer, SPLASH (Systems, Programming, Languages, and Applications) (decli INDUSTRY PhD INVITATIONS (ABRIDGED) Participant, Meta's Uniting Scholars in Research (Menlo Park, Palo Alto) Virtual Participant, Jane Street's Preview Program, The Game Show / Trading Games Virtual Participant, JP Morgan Chase & Co. Advancing Hispanic & Latinos Summit Virtual Participant, Asana, AsanaLaunch Interview Prep Series (1 of 50) Participant, JP Morgan, Advancing Black Pathways in Al & Quant Modelling Summit Participant, Facebook, Amplified: Above & Beyond Computer Science Program (PhDs) Participant, Facebook's Amplified: Virtual Vivid in Research (1 of 30)	2022, 2023 2022 2020 2020 2018 2018 2018 2018 ned offer) 2022 2022 2022 2022 2021 2021 2021

INDUSTRY PhD INVITATIONS (ABRIDGED)	
Participant, JP Morgan, Advancing Black Pathways in Data Science	2021
Participant, TwoSigma Mock Interview Day for Early Career Women (Quant Research)	2021
Participant, Hudson River Trading (HRT) Systems Engineering Tech Talks (1 of 14)	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	
JP Morgan, Quantitative AI Research, Summer Associate (New York) (1 of 10)	2022
- JP Morgan Research Publication	
(mentors: S. Mishra PhD, D. Ley, A. Anzagira, E. Albini, D. Magazzeni, PhD)	
Summer of Bitcoin, PhD Research intern (mentor: R. Pickhardt)	2022
 Modelling congestion games for Simulating Price of Anarchy Selfish Routing 	
to show the Boundary of Channel Depletion in the Bitcoin Lightning Network	
Microsoft Research, Independent Contractor, Summer 2021 (New York: remote)	2021
- Reinforcement Learning Distributed pipeline project for Vowpal estimators library	
Microsoft, PhD Intern, Summer 2021 (Redmond: remote) (mentor: P. Angulo, PhD)	2021
- Whitepaper: Fair, private and storage-efficient Telemetry Client-side aggregation	
Autodesk, PhD Intern, Summer 2020 (Pier 9, San Francisco: remote)	2020
 Renyi-Differential Privacy prototyping project for Distributed Databases 	
RELEVANT WORK / INDUSTRY EXPERIENCE (Pre-Grad school)	
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
mozma: moreaemy react reach Beveraper (remete)	2070
NON-ACADEMIC SERVICE (ABRIDGED)	
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 (ABRIDGED)	
"Compositional Isogeny Schemes", Tapia Doctoral Consortium (45 minutes)	2022
"A Journey through Unboundedness of ranks of Elliptic Curves", (15 minute talk)	2022
Roots of Unity Workshop (joint talk with O. Del Guercio and M. Bustos Gonzalez)	
Brown University, Fair February talk on Security, Privacy, Fairness (30 minutes)	2022
Meetup "Math for Math's Sake", Virtual Lightning Talk (10-15 minutes)	2022
"Isogenies, Elliptic Curves and Random Walks on Random Graphs	
"Composable Forgetful Isogenies", Google CSRMP Research Alumni Talk (30 minutes)	2022

OTHER (NON-INDUSTRY) TALKS (ABRIDGED) CS Research Day, "Price of Anarchy in Selfish Routing", UVM (16 min)	
	2022
ICLR, Main Conference, Opening Remarks by DEI Chairs	2022
- "Broadening Participation in Research Initiative" (with R. Liu) (5-10 minutes)	
"Composable Forgetful Isogeny Graph Cryptography", Google CSRMP Research	2021
"Isogeny Graph Cryptography", School for Poetic Computation, Re-learning to love Math	
"Isogeny Graph Cryptography", School for Poetic Computation, "Learning to Love Maths"	
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
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
CO OTEW 1 Toject talk : contributing to Matris Software (Codeworld, Cagematris)	2010
INDUSTRY TALKS (ABRIDGED)	
"Isogeny-Based Cryptography", JP Morgan Al Research Cryptography Group (1 hour)	2022
"Prediction Sensitivity:Continual Audit of Counterfactual Fairness in Deployed Classifiers - Basis.Al Invited Talk (20 minutes) (New York, NY)	3"2022
JP Morgan AI Research Weekly Technical Meeting, (New York) (20 min)	2022
JP Morgan AI Research Reading Group Meeting (30 min)	2022
JP Morgan Summer Symposium (10 min)	2022
"Prediction Sensitivity for Fairness in AI", Jane Street Symposium (15 minutes)	2021
"Renyi-Differential Privacy", Autodesk UX Group (20 minutes)	2020
CLASSES (PhD)	
Doctoral Research with advisors C. Vincent and J. Near	2021-present
Doctoral Research with advisors C. Vincent and J. Near Combinatorial Graph Theory taught by P. Rombach (Fall 2022)	2021-present 2022
Doctoral Research with advisors C. Vincent and J. Near	•
Doctoral Research with advisors C. Vincent and J. Near Combinatorial Graph Theory taught by P. Rombach (Fall 2022)	•
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Doctoral Research with advisors C. Vincent and J. Near Combinatorial Graph Theory taught by P. Rombach (Fall 2022) Graduate Combinatorics (Spectral Graph Theory) taught by P. Rombach (Fall) Independent Study: Category Theory taught by A. Patania (Fall)	2022
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CLASSES (AUDIT)

UVM Elementary Number Theory taught by C. Vincent (Spring)

Fundamentals of Mathematics taught by T. Dupuy: (writing proofs) (Spring)

Arizona Winter School, Model Theory taught by R. Nagloo (Fall-Spring)

2022-2023

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

(Spring) 2021

- Information Theory class focused on scalability and protocols in Blockchain
- Taught by D. Tse, PhD through Stanford University
- Audited class, scribed for Lecture 11, Spring 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 (<u>MEVs</u>)
- Implemented Aequitas protocol from <u>paper</u> with authors for fairness simulation
- One of top four winning teams chosen

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

PRESS (SELECTED)

Publication Featured in Montreal AI Ethics Institute (MAIEI) newsletter

2022

Publication work Featured in BitMEX Research blog

2022

Also featured / interviewed in articles / media by Coursera, NASA-JPL, Google, Udacity, 2016-present The MacArthur Foundation, Venture Beat, The Data Standard, Corecursive Podcast, Career Girls, Dataiku, Scott Hanselman's Podcast, NASA Tech Briefs (40th anniversary), Variety, the Los Angeles Times, Black Girls Code colouring book on Women Scientists, etc.

GUEST WRITER (SELECTED)

Blogpost, *Summer of Bitcoin* (joint with S. Alscher) (ongoing: Lightning Network routing) 2022 Blog posts, *Harvard Tech X Social Impact Fellowship* (3 articles) 2022

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-present

NON-ACADEMIC MEMBERSHIP

Student Member, IEEE Computer Society Technical Committee on Security and Privacy	2021-present
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
Member, IEEE Information Theory Society, Santa Clara Valley Chapter	2016-present