Grant Molnar

Curriculum Vitae

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Professional Experience

AI/ML Engineering Manager

Winter 2025 - Present

My responsibilities are threefold: I innovate in AI and algorithms as an engineer, serve as line manager for both junior and senior AI/ML developers, and act as my company's Algorithm Team Lead. As an engineer, I do cutting edge work on LLMs, with networks, in ELINT, and more. I also cowrite program proposals. As a line manager, I nurture a personal rapport with my people, advocate for their interests, and facilitate their work on projects that engage them and enable them to grow in the ways they wish. I am also on the front lines of company recruitment. As Algorithm Team Lead, I liaise with project leads to provide technical support and connect them with the best employees for their problems, organize and deliver presentations on both foundational and advanced algorithm topics, and serve as our company's algorithms SME.

Principal AI/ML Engineer

Summer 2023 - Winter 2025

I spearheaded the development of advanced AI solutions across multiple projects, innovating in areas such as cognitive agents, signal segmentation systems, and satellite scheduling algorithms. I conducted novel research within an Agile framework and served as Scrum Master and AI/Algorithms Lead on one project. I delivered dozens of presentations to company leadership and peers on myriad computational and mathematical topics, from automata to quantum computing.

Academic Researcher at BYU and Dartmouth

Fall 2013 - Spring 2023

At BYU, I proved results about modular forms and algorithms on graphs. At Dartmouth, I instigated successful research into summing divergent series, the Prisoner's Dilemma, and the Ramanujan-Robin criterion. My thesis develops the arithmetic statistics of elliptic curves with cyclic m-isogeny. See Research Publications and Research Preprints below.

Math Instructor at BYU and Dartmouth

Winter 2017 - Spring 2023

I taught 30-student calculus courses in three different styles: lecturing, virtually with a "flipped classroom", and with handouts and group exercises. I TAed for lower-division courses, and by special request for upper-division courses as well. See Teaching Experience below.

Education

PhD, Mathematics, Dartmouth College, Hanover, NH	Fall 2018 - Spring 2023
Advisor: John Voight	
Thesis: Counting elliptic curves with a cyclic m -isogeny over $\mathbb Q$	
MA, Mathematics, Dartmouth College, Hanover, NH Advisor: John Voight	Fall 2018 - Winter 2020
MS, Mathematics, Brigham Young University, Provo, UT	Winter 2017 - Summer 2018
Advisors: Michael Griffin and Paul Jenkins	
Thesis: The arithmetic of modular grids	

BS, Mathematics, *Brigham Young University*, Provo, UT

Fall 2013 - Fall 2016

Computer Skills

Fluent in...

Bash • Git • LATEX • Python • SageMath • YAML

Fair at...

 $C++ \bullet Go \bullet HTML \bullet Java \bullet Magma \bullet Mathematica \bullet MatLab \bullet R$

Familiar with...

gRPC • MongoDB • PARI/GP • Rust • SQL

Books

Puzzle and Proof: A Decade of Problems from the Utah Math Olympiad, with Samuel Dittmer, Hiram Golze, and Caleb Stanford

AK Peters/CRC Recreational Mathematics Series.

This book is a collection of 70 mathematical problems and puzzles from the first ten years of the Utah Math Olympiad (UMO), 2013–2022. These problems are distinguished in two respects. First, they aim to be *understandable* to an advanced high school audience, even if solving them can sometimes be quite difficult. Second, all of the problems ask for not only an answer, but a *proof*.

Research Publications

A database of basic numerical invariants of Hilbert modular surfaces, with Eran Assaf, Angelica Babei, Ben Breen, Edgar Costa, Juanita Duque-Rosero, Aleksander Horawa, Jean Kieffer, Avinash Kulkarni, Sam Schiavone, and John Voight

Contemp. Math., vol. 796, 2024, Amer. Math. Soc., Providence, RI, 285–312. arXiv: 2301.10302 We describe algorithms for computing geometric invariants for Hilbert modular surfaces, and we report on their implementation.

Counting elliptic curves over the rationals with a 7-isogeny, with John Voight

Research in Number Theory 9, 75 (2023). arXiv: 2212.11354

We count by height the number of elliptic curves over the rationals, both up to isomorphism over the rationals and over an algebraic closure thereof, that admit a cyclic isogeny of degree 7.

Reactive means in the Iterated Prisoner's Dilemma, with Caroline Hammond and Feng Fu Applied Mathematics and Computation 458 128201 (2023). arXiv: 2302.13909

The Iterated Prisoner's Dilemma (IPD) is a well studied framework for understanding direct reciprocity and cooperation in pairwise encounters. However, measuring the morality of various IPD strategies is still largely lacking. Here, we partially address this issue by proposing a suit of plausible morality metrics to quantify four aspects of justice. We focus our closed-form calculation on the class of reactive strategies because of their mathematical tractability and expressive power. We define reactive means as a tool for studying how actors in the IPD and Iterated Snowdrift Game (ISG) behave under typical circumstances. We compute reactive means for four functions intended to capture human intuitions about "goodness" and "fair play". Two of these functions are strongly anticorrelated with success in the IPD and ISG, and the other two are weakly anticorrelated with success. Our results will aid in evaluating and comparing powerful IPD strategies based on machine learning algorithms, using simple and intuitive morality metrics.

The arithmetic of modular grids, with Michael Griffin and Paul Jenkins

Mathematika 68, 1080-1119 (2022). arXiv: 2012.14403

A modular grid is a pair of sequences $(f_m)_m$ and $(g_n)_n$ of weakly holomorphic modular forms such that for almost all m and n, the coefficient of q^n in f_m is the negative of the coefficient of q^m in g_n . Zagier proved this coefficient duality in weights 1/2 and 3/2 in the Kohnen plus space, and such grids have appeared for Poincaré series, for modular forms of integral weight, and in many other situations. We give a general proof of coefficient duality for canonical row-reduced bases of spaces of weakly holomorphic modular forms of integral or half-integral weight for every group $\Gamma \subseteq \operatorname{SL}_2(\mathbb{R})$ commensurable with $\operatorname{SL}_2(\mathbb{Z})$. We construct bivariate generating functions that encode these modular forms, and study linear operations on the resulting modular grids.

Odd, spoof perfect factorizations, with Nickolas Andersen, Spencer Durham, Michael Griffin, Jonathon Hales, Paul Jenkins, Ryan Keck, Hankun Ko, Eric Moss, Pace Nielsen, Kyle Niendorf, Vandy Tombs, Merrill Warnick, and Dongsheng Wu

Journal of Number Theory 234, 31-47 (2022). Quanta article. Veritasium video. arXiv: 2006.10697

We investigate the integer solutions of Diophantine equations related to perfect numbers. These solutions generalize the example, found by Descartes in 1638, of an odd, "spoof" perfect factorization $3^2 \cdot 7^2 \cdot 11^2 \cdot 22021^1$. More recently, Voight found the spoof perfect factorization $3^4 \cdot 7^2 \cdot 11^2 \cdot 19^2 \cdot (-127)^1$. No other examples appear in the literature. We compute all nontrivial, odd, primitive spoof perfect factorizations with fewer than seven bases – there are twenty-one in total. We show that the structure of odd, spoof perfect factorizations is extremely rich, and there are multiple infinite families of them. This implies that certain approaches to the odd perfect number problem that use only the multiplicative nature of the sum-of-divisors function are unworkable. On the other hand, we prove that there are only finitely many nontrivial, odd, primitive spoof perfect factorizations with a fixed number of bases.

Zagier duality for level p weakly holomorphic modular forms, with Paul Jenkins

The Ramanujan Journal 50, 93-109 (2019). arXiv: 1709.10023

We prove Zagier duality between the Fourier coefficients of canonical bases for spaces of weakly holomorphic modular forms of prime level p with $11 \le p \le 37$ with poles only at the cusp at ∞ , and special cases of duality for an infinite class of prime levels. We derive generating functions for the bases for genus 1 levels.

Graphs with the strong Havel-Hakimi property, with Michael Barrus

Graphs and Combinatorics 32, 1689-1697 (2016). arXiv: 1505.00085

The Havel–Hakimi algorithm iteratively reduces the degree sequence of a graph to a list of zeroes. As shown by Favaron, Mahéo, and Saclé, the number of zeroes produced, known as the residue, is a lower bound on the independence number of the graph. We say that a graph has the strong Havel–Hakimi property if in each of its induced subgraphs, deleting any vertex of maximum degree reduces the degree sequence in the same way that the Havel–Hakimi algorithm does. We characterize graphs having this property (which include all threshold and matrogenic graphs) in terms of minimal forbidden induced subgraphs. We further show that for these graphs the residue equals the independence number, and a natural greedy algorithm always produces a maximum independent set.

Research Preprints

Positive spoof Lehmer factorizations, with Guntas Singh

Preprint. arXiv: 2409.17076

We investigate the integer solutions of Diophantine equations related to Lehmer's totient conjecture. We give an algorithm that computes all nontrivial positive spoof Lehmer factorizations with a fixed number of bases r, and enumerate all nontrivial positive spoof Lehmer factorizations with 6 or fewer factors.

Multiplicative summations into algebraically closed fields, with Robert Dawson

Preprint. arXiv: 2111.09938

In this paper, extending our earlier program, we derive maximal canonical extensions for multiplicative summations into algebraically closed fields. We show that there is a well-defined analogue to minimal polynomials for a series algebraic over a ring of series, the "scalar polynomial". When that ring is the domain of a summation \mathfrak{S} , we derive the related concepts of the \mathfrak{S} -minimal polynomial for a series, which is mapped by \mathfrak{S} to a scalar polynomial. When the scalar polynomial for a series has the form $(t-a)^n$, a is the unique value to which the series can be mapped by an extension of the original summation.

Telescopic, multiplicative, and rational extensions of summations, with Robert Dawson

Preprint. arXiv: 2105.04592

A summation is a shift-invariant R-module homomorphism from a submodule of R to R or another ring. Dawson formalized a method for extending a summation to a larger domain by telescoping. In this paper, we revisit telescoping, we study multiplicative closures of summations (such as the usual summation on convergent series) that are not themselves multiplicatively closed, and we study rational extensions as a generalization of telescoping.

Expository Notes

Minimalist practical numbers

Unpublished.

A natural number n is practical if every smaller number can be written as a sum of distinct divisors of n. We say that a practical number n is minimalist if this representation is unique. In this note, we prove that a practical number is minimalist if and only if it is a power of 2.

Fast-growing series are transcendental, with Robert Dawson

Unpublished. arXiv: 2102.12995

Let R be a subring of $\mathbb{C}[[z]]$, and let $X \in \mathbb{C}[[z]]$. The Newton-Puiseux Theorem implies that if the coefficients of X grow sufficiently rapidly relative to the coefficients of the series in R, then X is transcendental over R. We provide an alternative proof of this result by establishing a relationship between the coefficients of A(X) and A'(X), where A(T) is a polynomial over $\mathbb{C}[[z]]$.

Awards and Fellowships

Dartmouth Graduate Fellowship	Fall 2018 - Summer 2023
Gridley Fund for Graduate Mathematics	Fall 2018 - Summer 2019
NSF Graduate Research Fellowship Honorable Mention	April 2018
BYU Academic Scholarship	Spring 2015 - Winter 2016
BYU Math Department Scholarship	Fall 2016
BYU Math Department Scholarship	Fall 2015
BYU Academic Scholarship	Fall 2013 - Winter 2014

Teaching Experience

Da	rtm	outh	Col	iege,	Hanover,	NH	(In	stru	ctor)	
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Math 8 (Calculus of One and Several Variables)	Fall 2021
Math 1 (Algebra and Calculus)	Fall 2020

Dartmouth College, Hanover, NH (Teacher's Assistant)

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Math 100 / Computer Science 49/149 (Random Walk)	Spring 2022
Math 100 / Computer Science 49/149 (Decision Theory)	Spring 2021
Math 23 (Differential Equations)	Winter 2020

Math 3 (Calculus)	Fall 2019
Math 22 (Linear Algebra)	Spring 2019
Math 22 (Linear Algebra)	Fall 2018
Brigham Young University, Provo, UT (Instructor)	
Math 112 (Calculus I)	Summer 2017
Brigham Young University, Provo, UT (Teacher's Assistant)	
Math 112 (Calculus I)	Fall 2017
Math 113 (Calculus II)	Winter 2017
Brigham Young University, Provo, UT (Grader)	
Math 570 (Matrix Analysis)	Winter 2017
Math 112 (Calculus I)	Fall 2015

Leadership and Community Service

Referee

 $\textit{Experimental Mathematics} \bullet \textit{Journal of Number Theory} \bullet \textit{Mathematische Zeitschrift} \bullet \textit{Theory} \\ \textit{and Decision}$

Reviewer

zbMATH Open • CRC Press

K-12 Outreach

Utah Math Olympiad Committee Member	2015 - Present
Lumiere Mentor	2024
Activity Leader at Dartmouth Science Day (Games & Surreal Numbers)	April 8, 2023
Activity Leader at Lebanon Ward Pi Day	
(Trachtenberg Arithmetic & Random Walk)	March 25, 2023
Session Leader at Dartmouth Sonia Kovalevsky Day	
(Trachtenberg Arithmetic)	May 21, 2022
Activity Leader at Lebanon Ward Pi Day (Random Walk)	April 8, 2022
Exploring Mathematics Camp Leader (Graph Theory)	July 27-31, 2020
Exploring Mathematics Camp Leader (Cryptography)	July 13-17, 2020
Activity Leader at Lebanon Ward Pi Day (Random Walk)	March 7, 2020
Volunteer at Dartmouth Sonia Kovalevsky Day	May 11, 2019
Activity Leader at Dartmouth Science Day (Nim)	May 4, 2019
Math Circles Guest Speaker (Tropical Algebra)	February 24, 2018
Math Circles Guest Speaker (Continued Fractions)	October 21, 2017
Proofreader for Utah State Math Contest	February 2017
Math Circles Counselor	2013 - 2015
Dartmouth Graduate Student Council	
Ad Hoc Healthcare Committee Founder and Co-Chair	2022 - 2023
 Budget Committee Member 	Summer 2022
Finance Officer	2021 - 2022
Budget Committee Member	Summer 2021

Representative for Math Department o Service Committee Member o Budget Committee Member	2020 - 2021 2020 - 2021 Summer 2020
Dartmouth Directed Reading Program Mentor (Fuzzy Logic) Mentor (Decision Theory) Mentor (Fractional Calculus) Other	Winter 2023 Spring 2022 Winter 2022
LMFDB Contributor Dartmouth Algebra and Number Theory Seminar Organizer BYU Putnam Team Captain	2019 - 2023 2019 - 2022 2014 - 2016
Thesis Defenses Counting elliptic curves with a cyclic m -isogeny over \mathbb{Q} Dartmouth College PhD Thesis Defense The arithmetic of modular grids BYU Master's Thesis Defense	April 24, 2023 June 22, 2018
Invited Talks	
Quantum communication & computing	January 27, 2025
2025 Tech Day Counting elliptic curves with a cyclic m -isogeny	February 9, 2023
Job Talk at Metron	·
Counting elliptic curves with a 7-isogeny BYU Colloquium	January 19, 2023
Counting elliptic curves with a 7-isogeny Simons Collaboration Annual Meeting	January 11, 2023
Counting 7-isogenies	January 6, 2023
2023 Joint Mathematics Meeting A family of analogues to the Ramanujan-Robin Criterion BYU Number Theory Seminar	October 27, 2022
Other Conference Talks Algorithms and computational complexity Algorithm Development Tech Titan Presentation	February 21, 2025
Intersecting varieties with transcendental graphs Arizona Winter School 2023: Unlikely Intersections	March 8, 2023
The LCM product and Grönwall's theorem	October 3, 2021
2021 Maine-Québec Number Theory Conference (virtual) Formal summation of divergent series	September 26, 2020
2020 Conférence de Théorie des Nombres Québec-Maine (virtual)	30ptomber 20, 2020
The arithmetic of modular grids 2019 Maine-Québec Number Theory Conference	October 5, 2019

The arithmetic of modular grids	March 8, 2019
33 rd Automorphic Forms Workshop	1 1 17 0010
The arithmetic of modular grids	July 17, 2018
Building Bridges: 4th EU/US Summer School + Workshop on Automorphic Form	
Zagier duality in level p modular spaces 32^{nd} Automorphic Forms Workshop	March 21, 2018
·	March 2 2010
Zagier duality in level <i>p</i> modular spaces 2018 BYU Student Research Conference	March 3, 2018
Zagier duality in level p modular spaces	May 24, 2017
Modular Forms are Everywhere Conference	111dy 21, 2011
Weakly holomorphic modular forms of level 11	March 7, 2017
31st Automorphic Forms Workshop	Waren 1, 2011
Weakly holomorphic modular forms of level 11	March 4, 2017
2017 BYU Student Research Conference	
Congruence relations in modular forms of prime levels greater than 7	March 21, 2015
2015 BYU Student Research Conference	
Residues and independence numbers of graphs	March 15, 2014
2014 BYU Student Research Conference	
Other Seminar Talks	
Robust optimization	December 5, 2024
Algorithm Development Tech Titan Presentation	2 000111301 0, 2021
Linear programming	November 21, 2024
Algorithm Development Tech Titan Presentation	
The comedy of errors	October 24, 2024
Algorithm Development Tech Titan Presentation	, -
	September 12, 2024
Algorithm Development Tech Titan Presentation	•
Neurofuzziness	June 27, 2024
Artificial Intelligence Tech Titan Presentation	
Fuzzy logic	June 6, 2024
Algorithm Development Tech Titan Presentation	
Finite automata for the software engineer	April 25, 2024
Algorithm Development Tech Titan Presentation	
Quantum computing IV: Shor's algorithm	March 28, 2024
Algorithm Development Tech Titan Presentation	
Quantum computing III: QML	March 21, 2024
Artificial Intelligence Tech Titan Presentation	
Spacepower: doctrine for Space Forces	February 29, 2024
SDA & Space Control Tech Titan Presentation	
Quantum computing II: algorithm fundamentals	February 29, 2024
Algorithm Development Tech Titan Presentation	
Quantum computing I: bits and qubits	February 15, 2024
Algorithm Development Tech Titan Presentation	

Neural differential equations	January 25, 2024
Artificial Intelligence Tech Titan Presentation	D 1 7 0000
Topological data analysis	December 7, 2023
Algorithm Development Tech Titan Presentation	0 . 1 . 10 .000
Geometric deep learning	October 19, 2023
Artificial Intelligence Tech Titan Presentation	C
Symbolic segmentation II	September 14, 2023
Algorithm Development Tech Titan Presentation	C
Symbolic segmentation I	September 14, 2023
Algorithm Development Tech Titan Presentation	
The Fox H-function	March 28, 2023
Dartmouth Graduate Student Seminar	Falaman 14 2022
Geometric deep learning	February 14, 2023
Dartmouth Graduate Student Seminar Nearing nearrings	September 14, 2022
Dartmouth Graduate Student Seminar	September 14, 2022
Universal algebra and coalgebra	March 30, 2022
Dartmouth Graduate Student Seminar	Widien 30, 2022
Cogalois theory	February 16, 2022
Dartmouth Graduate Student Seminar	•
Cyclic resolution of singularities	January 25, 2022
Reading Seminar on Hilbert Modular Surfaces	
What if the Riemann hypothesis is false?	January 19, 2022
Dartmouth Graduate Student Seminar	
Inverse semigroups: groups without identity	November 9, 2021
Dartmouth Graduate Student Seminar	
Counting 7-isogenies	November 8, 2021
Dartmouth Algebra and Number Theory Seminar	
A sober look at pointless topology	September 21, 2021
Dartmouth Graduate Student Seminar	
Fast-growing series are transcendental	April 21, 2021
Dartmouth Graduate Student Seminar (virtual)	
Coalgebras and Hopf algebras	April 15, 2021
Reading Seminar on Affine Group Schemes (virtual)	
Absurd equalities and Runge's method: the degenerate case	March 30, 2021
Dartmouth Algebra and Number Theory Seminar (virtual)	
p-adic Hodge theory	March 2, 2021
Reading Seminar on Classical and Quadratic Chabauty (virtual)	
Odd, spoof quasiperfect factorizations	February 9, 2021
Dartmouth Algebra and Number Theory Seminar (virtual)	
A primer in social choice theory	January 20, 2021
Dartmouth Graduate Student Seminar (virtual)	
Examples of Kedlaya's algorithm	November 19, 2020
Reading Seminar on Classical and Quadratic Chabauty (virtual)	

The LCM product and Grönwall's theorem	November 17, 2020
Dartmouth Algebra and Number Theory Seminar (virtual)	
Reactive means and the prisoner's dilemma	October 7, 2020
Dartmouth Graduate Student Seminar (virtual)	
Formal summation of divergent series: an algebraic approach	April 28, 2020
Dartmouth Algebra and Number Theory Seminar (virtual)	
On the infinitude of the natural numbers	February 12, 2020
Dartmouth Graduate Student Seminar	N
Variations of Hodge structures	November 26, 2019
Reading Seminar on Shimura Varieties	
Hodge structures	November 14, 2019
Reading Seminar on Shimura Varieties	
Savage's expected utility and making good decisions	November 13, 2019
Dartmouth Graduate Student Seminar	0 . 1 . 0 .0010
Geometric and generalized calculus	October 8, 2019
Dartmouth Graduate Student Seminar	ll., 21, 2010
Summing divergent series Dartmouth Graduate Student Seminar	July 31, 2019
Real analysis: a nonstandard approach	April 17, 2019
Dartmouth Graduate Student Seminar	7 tpm 17, 2015
Why save the universe? Set theory with a universal set	January 16, 2019
Dartmouth Graduate Student Seminar	,
The arithmetic of modular grids	September 26, 2018
Dartmouth Graduate Student Seminar	
Dioids and idempotent geometry II	March 13, 2018
BYU Algebra Seminar	
Dioids and idempotent geometry I	February 27, 2018
BYU Algebra Seminar	
Zagier duality in level p modular spaces	February 22, 2018
BYU Number Theory Seminar	
Average values of arithmetic functions	October 12, 2017
BYU Number Theory Seminar	
Weakly holomorphic modular forms of level 11	February 9, 2017
BYU Number Theory Seminar	
Generating functions for canonical bases of certain	
level 11 weakly holomorphic modular forms	January 26, 2017
BYU Number Theory Seminar	
High rank elliptic curves with prescribed torsion	December 1, 2016
BYU Number Theory Seminar	
Heuristics for elliptic curves of high rank	October 20, 2016
BYU Number Theory Seminar	
A lemma regarding the Feit-Thompson conjecture	November 12, 2015
BYU Number Theory Seminar	

Algebraic number theory and the Feit-Thompson conjecture	October 1, 2015
BYU Number Theory Seminar	
Congruence relations in modular forms of prime levels greate	er than 7 March 19, 2015
BYU Number Theory Seminar	F.I
Hensel's lemma	February 12, 2015
BYU Number Theory Seminar	M 1 07 0014
Newton polynomials	March 27, 2014
BYU Number Theory Seminar	
Other	
Achievements and Honors	
3 rd Place in the Virginia Tech Regional Math Competition	October 2016
2 nd Place in the Search for High Rank Elliptic Curve	
at 2016 Connecticut Summer School in Number Theory	August 2016
Gold Palm Eagle Scout	December 2012
Black Belt (Taekwondo)	August 2012
Special Training	
Dale Carnegie Training: Leadership Training for Managers	Summer 2025
Dartmouth Mathematics Teaching Seminar	Spring 2020
BYU Mathematics Teaching Seminar	Fall 2018
Academic Interests Analytic Number Theory • Arithmetic Geometry • Game Theory •	• Logic
Personal Interests	
Hiking • Philosophy • Piano • Poetry • Stories	
Conferences and Workshops Attended	
CCCG/WADS 2025	August 11 - 15, 2025
York University, Toronto	_
Qubits 2025: Quantum Realized	March 31 - April 1, 2025
Virtual (Scottsdale, Arizona)	
2025 Simons Collaboration on Arithmetic Geometry,	
Number Theory, and Computation Annual Meeting	January 15-16, 2025
Virtual (Simons Foundation's Gerald D. Fischbach Auditorium, New Yo	ork City)
2024 Simons Collaboration on Arithmetic Geometry,	
Number Theory, and Computation Annual Meeting	January 11-12, 2024
Virtual (Simons Foundation's Gerald D. Fischbach Auditorium, New York, Dr. Co. Co. 2002)	•
-	ugust 31 - September 1, 2023
Virtual (Harvard University, Cambridge)	M 0.40 0000
Hilbert Modular Forms Infrastructure Week 4	May 8-12, 2023
Dartmouth College, Hanover Arizona Winter School 2023: Unlikely Intersections	March 4 0 2022
ANZONA VVIILLER SCHOOL ZUZS. UNIIKEIV INTERSECTIONS	March 4-8, 2023

University of Arizona, Tucson

2023 Simons Collaboration on Arithmetic Geometry,	
Number Theory, and Computation Annual Meeting	January 11-12, 2023
Simons Foundation's Gerald D. Fischbach Auditorium, New York City	
2023 Joint Mathematics Meetings	January 4-7, 2023
Hynes Convention Center, Boston	D 10.16.0000
Hilbert Modular Forms Infrastructure Week 3	December 12-16, 2022
Dartmouth College, Hanover Modular Curves Workshop 2	November 5 0, 2022
Modular Curves Workshop 2 MIT, Boston	November 5-9, 2022
Big Data Conference 2022	August 26, 2022
Virtual (Harvard University, Cambridge)	7 148400 201 2022
Explicit Methods for Modularity	April 11-15, 2022
Virtual (Simons Collaboration)	•
Arizona Winter School 2022 : Automorphic Forms Beyond GL_2	March 5-9, 2022
Virtual (University of Arizona, Tucson)	
Hilbert Modular Forms Infrastructure Week 2	February 21-25, 2022
Dartmouth College, Hanover	
2021 Maine-Québec Number Theory Conference	October 2-3, 2021
Virtual (University of Maine, Orono)	
Spring 2021 Algebraic Geometry Northeastern Series	May 4-5, 2021
Virtual (Brown University, Providence)	
21st Algebra, Geometry and Combinatorics Day	April 10, 2021
Virtual (University of Notre Dame, Notre Dame)	
2021 Joint Mathematics Meetings	January 6-9, 2021
Virtual (American Math Society, Mathematical Association of America)	0 00 0= 0000
Fall 2020 Algebraic Geometry Northeastern Series	October 23-25, 2020
Virtual (Stony Brook University, Stony Brook)	C . 1 0C 07 0000
2020 Conférence de Théorie des Nombres Québec-Maine	September 26-27, 2020
Virtual (Université Laval, Québec)	
14 th Algorithmic Number Theory Symposium	June 29 - July 4, 2020
Virtual (University of Auckland, Auckland)	
UNCG Summer School in Computational Number Theory and Algebra: Ergodic Theory with Applications to Continued Fractions	May 19 22 2020
Virtual (University of North Carolina, Greensboro)	May 18-22, 2020
2019 Maine-Québec Number Theory Conference	October 5-6, 2019
University of Maine, Orono	October 5-0, 2019
Fall 2019 Algebraic Geometry Northeastern Series	September 20-22, 2019
Boston College, Boston	
33rd Automorphic Forms Workshop	March 6-10, 2019
Duquesne University, Pittsburgh	
Building Bridges: 4 th EU/US Summer School +	
Workshop on Automorphic Forms and Related Topics	July 9-20, 2018
Alfréd Rényi Institute of Mathematics, Budapest	

32 nd Automorphic Forms Workshop	March 19-22, 2018
Tufts University, Medford	
Modular Forms are Everywhere	May 15-26, 2017
Max Planck Institute for Mathematics, Bonn	
31st Automorphic Forms Workshop	March 6-9, 2017
East Tennessee State University, Johnson City	
2017 BYU Student Research Conference	March 4, 2017
Brigham Young University, Provo	
2016 Connecticut Summer School in Number Theory	August 8-14, 2016
University of Connecticut, Storrs	
2015 BYU Student Research Conference	March 21, 2015
Brigham Young University, Provo	
2014 BYU Student Research Conference	March 15, 2014
Brigham Young University, Provo	