# Grant Molnar

# Curriculum Vitae

Department of Mathematics, Dartmouth College, 245 Kemeny Hall, Hanover, NH 03755
 www.grantmolnar.com
 ■ Grant.S.Molnar.GR@dartmouth.edu

#### Education

PhD, Mathematics, Dartmouth College, Hanover, NH Fall 2018 - expected Spring 2023

Advisor: John Voight

MA, Mathematics, Dartmouth College, Hanover, NH Fall 2018 - Winter 2020

Advisor: John Voight

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

## Professional Experience

#### Academic Researcher at BYU and Dartmouth

2013 - Present

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.

#### Math Instructor at BYU and Dartmouth

2017 - Present

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.

## Computer Skills

Fluent in...

Bash • LaTEX • Python • SageMath

Experience with...

C++ • Git • HTML • Magma • Mathematica • MatLab • PARI/GP

# Research Publications and Preprints

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

Preprint. arXiv:2301.10302

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

Preprint. arXiv:2212.11354

Multiplicative summations into algebraically closed fields, with Robert Dawson

Preprint. arXiv:2111.09938

**Telescopic, multiplicative, and rational extensions of summations**, *with Robert Dawson* Preprint. arXiv:2105.04592

The arithmetic of modular grids, with Michael Griffin and Paul Jenkins Mathematika 68, 1080-1119 (2022). arXiv:2012.14403

**Odd, spoof perfect factorizations**, with the BYU Computational Number Theory Group Journal of Number Theory **22**, 31-47 (2022). Quanta article. arXiv:2006.10697

**Zagier duality for level** *p* **weakly holomorphic modular forms**, *with Paul Jenkins* The Ramanujan Journal **50**, 93–109 (2019). arXiv:1709.10023

**Graphs with the strong Havel-Hakimi property**, *with Michael Barrus* Graphs and Combinatorics **32**, 1689–1697 (2016). arXiv:1505.00085

## **Expository Notes**

**Fast-growing series are transcendental**, *with Robert Dawson* Unpublished. arXiv:2102.12995

## Manuscripts in Preparation

A family of analogues to the Ramanujan-Robin criterion, with Steve Fan and Mits Kobayashi
Odd, spoof quasiperfect factorizations, with Jonathon Hales
Reactive means and the prisoner's dilemma, with Caroline Hammond and Feng Fu
Visualizing Basel's problem, with Mits Kobayashi

## Selected Git Projects

### **Spoof Quasiperfect Factorizations**

Fall 2021

https://github.com/grantmolnar/Spoof-Quasiperfect-Factorizations

## 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

Dartmouth College, Hanover, NH (Instructor)	
Math 8 (Calculus of One and Several Variables)	Fall 2021
Math 1 (Algebra and Calculus)	Fall 2020

Dartmouth College, Hanover, NH (Teacher's Assistant)	
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
Invited Talks	
Counting elliptic curves with a 7-isogeny	January 19, 2023
BYU Colloquium	•
Counting elliptic curves with a 7-isogeny	January 11, 2023
Simons Collaboration Annual Meeting	
Counting 7-isogenies	January 6, 2023
2023 Joint Mathematics Meeting	
A family of analogues to the Ramanujan-Robin Criterion	October 27, 2022
BYU Number Theory Seminar	
Other Conference Talks	
The LCM product and Grönwall's theorem	October 3, 2021
2021 Maine-Québec Number Theory Conference (virtual)	October 5, 2021
Formal summation of divergent series	September 26, 2020
2020 Conférence de Théorie des Nombres Québec-Maine (virtual)	
The arithmetic of modular grids	October 5, 2019
2019 Maine-Québec Number Theory Conference	
The arithmetic of modular grids	March 8, 2019
33 <sup>rd</sup> Automorphic Forms Workshop	
The arithmetic of modular grids	July 17, 2018
Building Bridges: 4th EU/US Summer School $+$ Workshop on Automorphic Fe	orms
Zagier duality in level $p$ modular spaces	March 21, 2018
$32^{ m nd}$ Automorphic Forms Workshop	
Zagier duality in level p modular spaces	March 3, 2018
2018 BYU Student Research Conference	

Zagier duality in level $p$ modular spaces	May 24, 2017
Modular Forms are Everywhere Conference	NA 1 7 0017
Weakly holomorphic modular forms of level 11	March 7, 2017
31st Automorphic Forms Workshop	NA 1 4 0017
Weakly holomorphic modular forms of level 11 2017 BYU Student Research Conference	March 4, 2017
Congruence relations in modular forms of prime levels greater than	7 March 21, 2015
2015 BYU Student Research Conference	, Waren 21, 2015
Residues and independence numbers of graphs	March 15, 2014
2014 BYU Student Research Conference	
Other Seminar Talks	
Nearing nearrings	September 14, 2022
Dartmouth Graduate Student Seminar	
Universal algebra and coalgebra	March 30, 2022
Dartmouth Graduate Student Seminar	E
Cogalois theory	February 16, 2022
Dartmouth Graduate Student Seminar	I 0F 2000
Cyclic resolution of singularities	January 25, 2022
Reading Seminar on Hilbert Modular Surfaces	January 10, 2022
What if the Riemann hypothesis is false?  Dartmouth Graduate Student Seminar	January 19, 2022
Inverse semigroups: groups without identity	November 9, 2021
Dartmouth Graduate Student Seminar	November 9, 2021
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	30pto30. 21, 2021
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	
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   0 0010
Geometric and generalized calculus	October 8, 2019
Dartmouth Graduate Student Seminar	1 1 21 2010
Summing divergent series	July 31, 2019
Dartmouth Graduate Student Seminar	April 17 2010
Real analysis: a nonstandard approach  Dartmouth Graduate Student Seminar	April 17, 2019
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	
The arithmetic of modular grids	June 22, 2018
BYU Master's Thesis Defense	
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 greater than 7  BYU Number Theory Seminar	March 19, 2015
Hensel's lemma	February 12, 2015
BYU Number Theory Seminar  Newton polynomials	March 27, 2014
BYU Number Theory Seminar	
Leadership and Community Service	
Referee Journal of Number Theory Mathematische Zeitschrift Reviewer	2018 - Present 2022 - Present
zbMATH Open	2021 - Present
K-12 Outreach Utah Math Olympiad Committee Member Session Leader at Dartmouth Sonia Kovalevsky Day (Arithmetic) Activity Station Leader at Lebanon Ward Pi Day (Random Walk) Exploring Mathematics Camp Leader (Graph Theory) Exploring Mathematics Camp Leader (Cryptography) Activity Station Leader at Lebanon Ward Pi Day (Random Walk) Volunteer at Dartmouth Sonia Kovalevsky Day Activity Station Leader at Dartmouth Science Day (Nim) Math Circles Guest Speaker (Tropical Algebra) Math Circles Guest Speaker (Continued Fractions) Proofreader for Utah State Math Contest	2015 - Present May 21, 2022 April 8, 2022 July 27-31, 2020 July 13-17, 2020 March 7, 2020 May 11, 2019 May 4, 2019 February 24, 2018 October 21, 2017 February 2017
Dartmouth Graduate Student Council  Ad Hoc Healthcare Committee Founder and Co-Chair  Budget Committee Member  Finance Officer  Budget Committee Member  Representative for Math Department  Service Committee Member  Budget Committee Member  Dartmouth Directed Reading Program  Mentor (Fuzzy Logic)  Mentor (Decision Theory)  Mentor (Fractional Calculus)	2022 - Present Summer 2022 2021 - 2022 Summer 2021 2020 - 2021 2020 - 2021 Summer 2020 Winter 2023 Spring 2022 Winter 2022
Other LMFDB Contributor Dartmouth Algebra and Number Theory Seminar Organizer	2019 - Present 2019 - Present
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BYU Putnam Team Captain Math Circles Counselor	2014 - 2016 2013 - 2015
Other	
Achievements and Honors	0 . 1 . 0016
3rd Place in Virginia Tech Regional Math Competition	October 2016
$2^{ m nd}$ Place in 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	
Dartmouth Mathematics Teaching Seminar	Spring 2020
BYU Mathematics Teaching Seminar	Fall 2018
Academic Interests	1 dii 2010
Analytic Number Theory • Arithmetic Geometry • Game Theory • Logi	C
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Personal Interests  Parding a Writing a Philosophy a Hilling	
Reading • Writing • Philosophy • Hiking	
Conferences and Workshops Attended	
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	
Hilbert Modular Forms Infrastructure Week 3	December 12-16, 2022
Dartmouth College, Hanover	
Modular Curves Workshop 2	November 5-9, 2022
MIT, Boston	
Big Data Conference 2022	August 26, 2022
Virtual (Harvard University, Cambridge)	
Explicit Methods for Modularity	April 11-15, 2022
Virtual (Simons Collaboration)	
Arizona Winter School 2022: Automorphic Forms Beyond $\mathrm{GL}_2$	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)	
$21^{ m st}$ Algebra, Geometry and Combinatorics Day	April 10, 2021

Virtual (University of Notre Dame, Notre Dame)

Fall 2020 Algebraic Geometry Northeastern Series  Virtual (Stony Brook University, Stony Brook) 2020 Conférence de Théorie des Nombres Québec-Maine Virtual (Université Laval, Québec)  14th Algorithmic Number Theory Symposium Virtual (University of Auckland, Auckland)  UNCG Summer School in Computational Number Theory and Algebra: Ergodic Theory with Applications to Continued Fractions Virtual (University of North Carolina, Greensboro) 2019 Maine-Québec Number Theory Conference University of Maine, Orono Fall 2019 Algebraic Geometry Northeastern Series Boston College, Boston 33rd Automorphic Forms Workshop Duquesne University, Pittsburgh Building Bridges: 4th EU/US Summer School + Workshop on Automorphic Forms and Related Topics Alfréd Rényi Institute of Mathematics, Budapest 32nd Automorphic Forms Workshop March 19-22, 2018 Tufts University, Medford Modular Forms are Everywhere Modular Forms are Everywhere Modular Forms Workshop March 19-22, 2017 Max Planck Institute for Mathematics, Bonn 31st Automorphic Forms Workshop East Tennessee State University, Johnson City 2017 BYU Student Research Conference Brigham Young University, Provo 2016 Connecticut Summer School in Number Theory University of Connecticut, Storrs 2015 BYU Student Research Conference Brigham Young University, Provo 2014 BYU Student Research Conference Brigham Young University, Provo	2021 Joint Mathematics Meetings Virtual (American Math Society, Mathematical Association of America)	January 6-9, 2021
2020 Conférence de Théorie des Nombres Québec-Maine   Virtual (Université Laval, Québec)   Virtual (Université Laval, Québec)   Virtual (Université Laval, Québec)   Virtual (University of Auckland, Auckland)   VINCG Summer School in Computational Number Theory and Algebra: Ergodic Theory with Applications to Continued Fractions   May 18-22, 2020   Virtual (University of North Carolina, Greensboro)   Virtual (University of North Carolina, Greensboro)   Virtual (University of Maine, Orono   Fall 2019 Algebraic Geometry Northeastern Series   September 20-22, 2019   Virtual (University of Maine, Orono   Fall 2019 Algebraic Geometry Northeastern Series   September 20-22, 2019   Virtual (University, Pittsburgh   Virtual (Virtual Proms Workshop   March 6-10, 2019   Virtual Proms Workshop   March 6-10, 2019   Virtual Proms Workshop   Virtua	Fall 2020 Algebraic Geometry Northeastern Series	October 23-25, 2020
Virtual (University of Auckland, Auckland)  UNCG Summer School in Computational Number Theory and Algebra: Ergodic Theory with Applications to Continued Fractions Virtual (University of North Carolina, Greensboro) 2019 Maine-Québec Number Theory Conference University of Maine, Orono Fall 2019 Algebraic Geometry Northeastern Series Boston College, Boston 33rd Automorphic Forms Workshop Unquesne University, Pittsburgh Building Bridges: 4th EU/US Summer School + Workshop on Automorphic Forms and Related Topics Alfréd Rényi Institute of Mathematics, Budapest 32nd Automorphic Forms Workshop Tufts University, Medford Modular Forms are Everywhere Modular Forms are Everywhere 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 Brigham Young University, Provo 2016 Connecticut Summer School in Number Theory University of Connecticut, Storrs 2015 BYU Student Research Conference Brigham Young University, Provo 2014 BYU Student Research Conference March 15, 2015 Brigham Young University, Provo	2020 Conférence de Théorie des Nombres Québec-Maine	September 26-27, 2020
Ergodic Theory with Applications to Continued FractionsMay 18-22, 2020Virtual (University of North Carolina, Greensboro)2019 Maine-Québec Number Theory ConferenceOctober 5-6, 2019University of Maine, OronoSeptember 20-22, 2019Boston College, BostonSeptember 20-22, 2019Boston College, BostonMarch 6-10, 2019Duquesne University, PittsburghMarch 6-10, 2019Building Bridges: 4th EU/US Summer School + Workshop on Automorphic Forms and Related TopicsJuly 9-20, 2018Alfréd Rényi Institute of Mathematics, BudapestJuly 9-20, 201832nd Automorphic Forms WorkshopMarch 19-22, 2018Tufts University, MedfordMay 15-26, 2017Max Planck Institute for Mathematics, BonnMarch 6-9, 201731st Automorphic Forms WorkshopMarch 6-9, 2017East Tennessee State University, Johnson CityMarch 6-9, 20172017 BYU Student Research ConferenceMarch 4, 2017Brigham Young University, ProvoAugust 8-14, 2016University of Connecticut, StorrsMarch 21, 2015Brigham Young University, ProvoMarch 21, 20152014 BYU Student Research ConferenceMarch 15, 2014		June 29 - July 4, 2020
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Duquesne University, Pittsburgh  Building Bridges: 4 <sup>th</sup> EU/US Summer School +  Workshop on Automorphic Forms and Related Topics  Alfréd Rényi Institute of Mathematics, Budapest  32 <sup>nd</sup> Automorphic Forms Workshop  Tufts University, Medford  Modular Forms are Everywhere  May 15-26, 2017  Max Planck Institute for Mathematics, Bonn  31 <sup>st</sup> Automorphic Forms Workshop  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  University of Connecticut, Storrs  2015 BYU Student Research Conference  Brigham Young University, Provo  2014 BYU Student Research Conference  March 15, 2014	Fall 2019 Algebraic Geometry Northeastern Series	September 20-22, 2019
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