

Lori D. Watson

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EDUCATION

University of Georgia

Ph.D., Mathematics, 2019.

- Dissertation: “Hasse principle violations in twist families of hyperelliptic and superelliptic curves”
- Advisor: Pete L. Clark

Florida Atlantic University

B.S., Mathematics and Computer Science, 2012.

Emory University

B.A., English and Theater Studies, 2005.

PUBLICATIONS

1. *Hasse principle violations in twist families of superelliptic curves.*
Available at <https://arxiv.org/abs/2103.05731>
2. (with Abbey Bourdon, David R. Gill, and Jeremy Rouse) *Odd degree isolated points on $X_1(N)$ with rational j -invariant.*
Available at <https://arxiv.org/abs/2006.14966>
3. (with Pete L. Clark) *ABC and the Hasse principle for quadratic twists of hyperelliptic curves.* C. R. Math. Acad. Sci. Paris 356 (2018), 911-915.
4. (with Pete L. Clark) *Varga’s theorem in number fields.*
INTEGERS 18 (2018), A74, 11pp.
5. (with Jordan Clark) *On generalizations of the second Euclid-Mullin sequence.*
Preprint. <https://loridwatson.com/research/>

EMPLOYMENT

Trinity College, Hartford, Connecticut.
Assistant Professor

July 2022 - Present

Wake Forest University, Winston-Salem, North Carolina. July 2019 - July 2022
Teacher Scholar Postdoctoral Fellow

University of Georgia, Athens, Georgia.
Graduate Research Assistant

August 2013 - May 2019

AWARDS AND FELLOWSHIPS

Best Speaker Award - JMM NAM Haynes-Granville-Browne Session (2021)
NSF RTG Fellowship (2016-2017, 2018-2019)
University of Georgia Outstanding Teaching Assistant Award (2018)
University of Georgia PhD Scholars of Excellence Assistantship (2013-2015)

TEACHING

Wake Forest University

Instructor

- Math 346/646: Modern Algebraic Number Theory (Fall 2021)
- Math 121: Linear Algebra I (Fall 2021)
- Math 117: Discrete Mathematics (Fall 2020, Spring 2021)
- Math 345/645: Number Theory (Spring 2020)
- Math 112: Calculus with Analytic Geometry II (Fall 2019, Spring 2020)

University of Georgia

Instructor

- Math 1113: Precalculus (Fall 2015, Fall 2017, Spring 2018)
- Math 2250: Calculus I for Science and Engineering (Spring 2016)

CONFERENCE &
SEMINAR
PRESENTATIONS

Odd degree isolated points on $X_1(N)$ with rational j -invariant,
VaNTAGe Seminar
June 8, 2021

On isolated points of odd degree on $X_1(N)$ with rational j -invariant.,
Western Algebraic Geometry Symposium
April 24, 2021

On isolated points of odd degree on $X_1(N)$.,
JMM NAM Haynes-Granville-Browne Session of Presentations by
Recent Doctoral Recipients, January 7, 2021

Odd degree isolated points on $X_1(N)$ with rational j -invariant,
University of Washington, December 1, 2020

Hasse Principle Violations of Quadratic Twists of Hyperelliptic Curves,
Center for Computing Sciences Seminar, February 2020

Hasse Principle Violations of Quadratic Twists of Hyperelliptic Curves,
JMM AMS Special Session on Arithmetic Statistics, January 18, 2019

Hasse Principle Violations of Quadratic Twists of Hyperelliptic Curves,
Palmetto Number Theory Series XXXI, December 9, 2018

Hasse Principle Violations in Families of Hyperelliptic Curves,
Number Theory Seminar, The University of Georgia, November 7, 2018.

Hasse Principle Violations in Families of Hyperelliptic Curves,
Wesleyan University, October 26, 2018

Hasse Principle Violations of Quadratic Twists of Hyperelliptic Curves,
Connecticut Summer School in Number Theory Conference,
University of Connecticut, June 1, 2018.

OTHER
CONFERENCES
ATTENDED

Roots of Unity Workshop,
Minneapolis, MN, June 2022

MSRI African Diaspora Joint Mathematics Workshop, *Adventures in Constructive
Galois Theory*, New Brunswick, NJ, June 2021
Modern Breakthroughs in Diophantine Problems,
Online, August 2020

Conference on open questions in cryptography and number theory,
Irvine, CA, Sept. 2018

Math Research Communities, *Number Theoretic Methods in Hyperbolic Geometry*,
West Greenwich, RI, June 2018

Arithmetic of Algebraic Curves, University of Wisconsin-Madison, April 2018

Arizona Winter School, *Iwasawa Theory*, Tucson, AZ, March, 2018

MSRI Summer School, *Automorphic Forms and the Langlands Program*,
Berkeley, CA, July, 2017.

PROFESSIONAL
SERVICE

Panelist, *Lunch in the Time of Covid Seminar: Developing a Research Program*, August 2021

Guest Speaker, *Math Summer Program for Inclusive Excellence*, July 2021

Lecturer, *Arizona Winter Semester 2021: Virtual School in Number Theory*, Spring 2021

Mentor, *Directed Reading Program*, University of Georgia, Fall 2017

President, AWM Student Chapter, University of Georgia, 2016-2017.

Organizer, Graduate Student Seminar, University of Georgia, 2016-2017.

Member, MATH 1113 Book Selection Committee, University of Georgia, 2016-2017.

Secretary, AWM Student Chapter, University of Georgia, 2015-2016.

UNIVERSITY &
DEPARTMENT
SERVICE

Equity Committee, 2020-2021

Discussion Co-leader for *Hidden Figures*, Project Wake, Fall 2020

Math Club/Pi Mu Epsilon, 2019-2020