

Marie Jameson

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Employment

Associate Professor <i>University of Tennessee</i>	2020–present
Assistant Professor <i>University of Tennessee</i>	2014–2020

Education

Emory University <i>Ph.D., Mathematics</i> Thesis: Combinatorial objects at the interface of q -series and modular forms Advisor: Professor Ken Ono	Atlanta, GA 2014
University of Wisconsin-Madison <i>M.A., Mathematics (Concentration: Mathematics Education)</i>	Madison, WI 2008
Harvey Mudd College <i>B.S., Mathematics</i> Graduated with High Distinction, Honors in Mathematics, and Honors in Humanities and Social Sciences Thesis: An Algebraic Study of Voting Theory Advisor: Professor Michael Orrison	Claremont, CA 2007

Publications

Research publications.....

- *Incongruences for modular forms and applications to partition functions* (joint with Sharon Garthwaite), to appear in *Advances in Mathematics*.
- *Zeta-polynomials, Hilbert polynomials, and the Eichler-Shimura identities*
Research in the Mathematical Sciences, 6 no. 3 (2019).
- *Congruences for modular forms and generalized Frobenius partitions* (joint with Maggie Wieczorek)
The Ramanujan Journal, <https://doi.org/10.1007/s11139-019-00174-9> (2019).
- *On p -adic modular forms and the Bloch-Okounkov theorem* (joint with Sarah Trebat-Leder and Michael J. Griffin)
Research in the Mathematical Sciences, 3 no. 11 (2016).
- *Benford's Law for coefficients of newforms* (joint with Jesse Thorner and Lynnelle Ye)
International Journal of Number Theory, 12 no. 2 (2016), pages 483-494.
- *Quadratic polynomials, period polynomials, and Hecke operators* (joint with Wissam Raji)
Acta Arithmetica, 158 no. 3 (2013), pp. 287-297.

- o *A problem of Zagier on quadratic polynomials and continued fractions*
International Journal of Number Theory, 12 no. 1 (2016), pages 121-141.
- o *Combinatorial applications of Möbius inversion* (joint with Robert P. Schneider)
Proceedings of the American Mathematical Society, 142 no. 9 (2014), pages 2965-2971.
- o *Congruences for broken k -diamond partitions*
Annals of Combinatorics, Volume 17, Issue 2 (2013), pages 333-338.
- o *A refinement of Ramanujan's congruences modulo powers of 7 and 11*
International Journal of Number Theory, 08 no. 4 (2012), pages 865-879.
- o *On a conjecture of Andrews* (joint with Robert Lemke Oliver)
Mathematical Research Letters, 17 no. 6 (2010), pages 1151-1154.
- o *Proof of the Alder-Andrews conjecture* (joint with Claudia Alfes and Robert Lemke Oliver)
Proceedings of the American Mathematical Society, 139 no. 1 (2011), pages 63-78.

Other publications.....
 o M. Jameson, G. Minton, M. Orrison, *Borda Meets Pascal*, Math Horizons, Vol. 16 No. 1 (2008), pp. 8-10, 21.

Fellowships and awards

- o Junior Teaching Award, University of Tennessee College of Arts and Sciences, 2017
- o Project NExT Fellow, 2015
- o AWM-NSF Travel Grant, 2014 and 2019
- o Graduate Student Research Award, Emory University, 2014
- o Marshall Hall Award (For Outstanding Teaching), Emory University, 2013-2014
- o Elizabeth Hirschfelder Award, UW-Madison, 2009-2010
- o RTG Fellow, UW-Madison, Fall 2009, Spring and Summer 2010
- o VIGRE Fellow, UW-Madison, Spring and Summer 2008, Summer 2009
- o Mary Ellen Rudin Fellowship, UW-Madison, 2008

Teaching experience

At University of Tennessee.....
Associate Professor: Math 251: Matrix Algebra I *Fall 2020*
Faculty Mentor: Math 142: Calculus II *Spring 2020 - Fall 2020*
Assistant Professor: Math 421: Combinatorics *Spring 2020*
Assistant Professor: Math 450: Number Theory *Fall 2019*
Assistant Professor: Math 351: Introduction to Abstract Algebra *Fall 2018*
Faculty Mentor: Math 142: Calculus II *Spring 2018, Fall 2018*
Faculty (Co-)mentor: Math 141: Calculus I *Fall 2016 - Spring 2017, Fall 2018*
Assistant Professor: Math 652: Introduction to Modular Forms *Spring 2018*
Assistant Professor: Math 142: Calculus II *Fall 2017, Spring 2018*
Assistant Professor: Math 551 & 552: Modern Algebra I & II *Fall 2016 - Spring 2017*

Assistant Professor: Math 499: Number Theory from a Combinatorial Perspective	Spring 2016
Assistant Professor: Math 455: Abstract Algebra I	Fall 2015
Assistant Professor: Math 307: Honors: Introduction to Abstract Mathematics	Fall 2014, Spring 2015
At Emory University.....	
Advisor-Counselor: Emory REU in Number Theory	Summer 2012-2013
Instructor: Math 107,111,112	Fall 2010-Summer 2013
Teaching Assistant: Math 221	Spring 2013
At University of Wisconsin–Madison.....	
Co-instructor (co-taught with Ken Ono): Math 490 (an REU-style course)	Spring 2010
Teaching Assistant: Math 221	Fall 2007
Other teaching experiences.....	
GEMS Tutor: Madison Metropolitan School District	2008-2009

Selected Presentations

- October 2020, *Cusp forms and p -adic limits* (invited)
AMS Sectional Meeting, formerly planned for Pennsylvania State University, State College, Pennsylvania, (virtual)
- February 2020, *Cusp forms and p -adic limits* (invited)
Vanderbilt Number Theory Seminar, Vanderbilt University, Nashville, Tennessee
- January 2020, *Incongruences for modular forms and applications to partition functions* (invited)
Joint Mathematics Meetings, Denver, Colorado
- November 2019, *Incongruences for modular forms and applications to partition functions* (invited)
AMS Sectional Meeting, University of Florida, Gainesville, Florida
- March 2019, *Zeta-polynomials and period polynomials for modular forms* (invited)
AMS Sectional Meeting, University of Hawaii, Honolulu, Hawaii
- March 2019, *Zeta-polynomials and period polynomials for modular forms* (invited)
AMS Sectional Meeting, Auburn University, Auburn, Alabama
- March 2019, *Congruences for modular forms and generalized Frobenius partitions*
Automorphic Forms Workshop, Duquesne University, Pittsburgh, Pennsylvania
- March 2019, *Congruences for modular forms and generalized Frobenius partitions* (invited)
Departmental Colloquium, Bucknell University, Lewisburg, Pennsylvania
- January 2019, *Congruences for modular forms and generalized Frobenius partitions* (invited)
Joint Mathematics Meetings, Baltimore, Maryland
- March 2018, *Adding and counting: as easy as 1, 2, 3, ...*
Departmental Junior Colloquium, University of Tennessee, Knoxville, Tennessee
- March 2018, *Congruences for generalized Frobenius partitions*
SERMON 2018, East Tennessee State University, Johnson City, Tennessee
- March 2016, *On p -adic modular forms and the Bloch-Okounkov theorem* (invited)
Alladi60, University of Florida, Gainesville, Florida.

- January 2016, *On p -adic modular forms and the Bloch-Okounkov theorem* (invited)
AMS Special Session on Modular Forms, q -series, and Mathematics Inspired by Ramanujan,
Joint Mathematics Meetings, Seattle, Washington
- September 2015, *On p -adic modular forms and the Bloch-Okounkov theorem*
PANTS XXIV, Emory University, Atlanta, Georgia
- January 2013, *Quadratic polynomials, period polynomials, and Hecke operators* (invited)
University of Tennessee, Knoxville, Tennessee
- October 2013, *Quadratic polynomials, period polynomials, and Hecke operators* (invited)
University of South Carolina, Columbia, South Carolina
- November 2012, *Problems of Zagier on quadratic polynomials, continued fractions, and more*
The Gainesville Ramanujan 125 Conference, University of Florida, Gainesville, Florida
- October 2012, *A problem of Zagier on quadratic polynomials and continued fractions, and more*
AMS Sectional Meeting, University of Arizona, Tucson, Arizona
- October 2011, *Congruences for broken k -diamond partitions*
INTEGERS Conference 2011, University of West Georgia, Carrollton, Georgia
- March 2011, *A refinement of Ramanujan's congruences modulo powers of 7 and 11*
 q -Series 2011: An International Conference on q -Series, Partitions and Special Functions, Georgia
Southern University, Statesboro, Georgia
- December 2010, *A refinement of Ramanujan's congruences modulo powers of 7 and 11*
Palmetto Number Theory Series (PANTS) XIII, University of South Carolina, Columbia, South
Carolina
- December 2009, *The Alder-Andrews conjecture* (invited)
International Conference on Number Theory & Mock Theta Functions, SASTRA University,
Thanjavur, India
- November 2009, *Partitions and Alder's conjecture*
Math Club Seminar, University of Wisconsin at Madison, Wisconsin

Service

- Article reviews for: *Advances in Mathematics*, *Journal of the London Mathematical Society*,
Research in Number Theory, *Duke Mathematical Journal*, *International Journal of Number Theory*,
Proceedings of the American Mathematical Society, *The Ramanujan Journal*, *Mathematics*,
Annals of Combinatorics.
- Co-organizer of AMS Special Session on "Partition theory and q -series" at the Joint Mathematics
Meetings (January 2020)
- Co-organizer of the 49th John H. Barrett Memorial Lectures: Recent Developments in Number
Theory (May 2019)
- Co-organizer of PANTS XXVIII (September 2017)
- Organizer of the Emory University graduate student algebra and number theory seminar (Fall
2013).
- Co-organizer of the Midwest Number Theory Conference for Graduate Students VI (November
2009).

Last updated: October 2020