

CURRICULUM VITAE

RIAD MASRI
November 2009
masri@math.wisc.edu

Personal Information:

- United States Citizen (born in Fort Smith, Arkansas)
- Married with one child (Violet, age 1)

Current Positions:

- Assistant Professor, Texas A&M University (on leave 2009-2010)
- Van Vleck Assistant Professor, University of Wisconsin at Madison

Research Interests: Automorphic forms, L -functions, Arithmetic geometry

Education:

- Ph.D. in Mathematics, U. of Texas (Austin), August 2005

Ph.D. Advisor: Fernando Rodriguez-Villegas

Academic Positions:

- Assistant Professor, Texas A&M University, 8/09-
- Van Vleck Assistant Professor, U. of Wisconsin (Madison), 8/08-8/11
- Postdoctoral Fellow, Centre de Recherches Mathématiques (Montréal), 5/07-6/08
- Visitor, Institut des Hautes Études Scientifiques (Paris), 2/07-4/07
- Postdoctoral Fellow, Max-Planck-Institut für Mathematik (Bonn), 9/05-12/06

Fellowships and Awards:

- National Security Agency, Young Investigator Grant, 2009-2011.
“Investigations on Heegner Points with Applications to L -Functions, Elliptic Curves, and Combinatorics.”
- Joseph Patrick Brannen Fellowship, U. of Texas (Austin), Spring 05
- Departmental Fellowship, U. of Texas (Austin), Spring 05
- Departmental Fellowship, U. of Texas (Austin), Summer 00
- Texas Excellence in Teaching Award, College of Natural Sciences, U. of Texas (Austin), Academic year 2003-2004

Publications and Preprints:

1. Nonvanishing of canonical Hecke L -functions for CM fields and ranks of abelian varieties (with Tonghai Yang), submitted.
2. Equidistribution of CM cycles and nonvanishing of class group L -functions, submitted.
3. Central values of Hecke L -functions and the Bloch-Kato conjecture, (with B. D. Kim and Tonghai Yang), submitted.
4. The limiting distribution of traces of Maass-Poincaré series (with Amanda Folsom), submitted.
5. Equidistribution of Heegner points and the partition function (with Amanda Folsom), *Mathematische Annalen*, to appear.
6. Special values of class group L -functions for CM fields, *Canadian Journal of Mathematics*, to appear.
7. Probabilities as values of modular forms and continued fractions (with Ken Ono), *International Journal of Mathematics and Mathematical Sciences*, 2009, article ID 941920.
8. The scattering matrix for the Hilbert modular group, *Proceedings of the American Mathematical Society* **137** (2009), 2541–2555.
9. On the L -functions of the curves $y^2 = x^\ell + A$, *Journal of the London Mathematical Society* **78** (2008), 663-676.
10. Analytic continuation of multiple Hurwitz zeta functions (with Jim Kelliher), *Mathematical Proceedings of the Cambridge Philosophical Society* **145** (2008), 605-617.
11. Asymptotics for sums of central values of canonical Hecke L -series, *International Mathematics Research Notices*, 2007, no. 19, 27 pp.
12. Quantitative nonvanishing of L -series associated to canonical Hecke characters, *International Mathematics Research Notices*, 2007, no. 19, 16 pp.
13. The distribution of zeros of Epstein zeta functions over GL_n , *Acta Arithmetica* **128** (2007), 157-166.
14. Multiple zeta values over global function fields, in Multiple Dirichlet series, automorphic forms, and analytic number theory, 157-175, *Proceedings of Symposia in Pure Mathematics*, **75**, American Mathematical Society, Providence, RI, 2006.

15. Multiple Dedekind zeta functions and evaluations of extended multiple zeta values, *Journal of Number Theory* **115** (2005), 295–309.
16. The Herglotz-Zagier function, double zeta functions, and values of L -series, *Journal of Number Theory* **106** (2004), 219–237.
17. Convergence rates for uniform B-spline density estimators on bounded and semi-infinite domains (with Richard Redner), *Journal of Nonparametric Statistics* **17** (2005), 555–582.

Selected Invited Talks:

- AIM Workshop on mock modular forms, Palo Alto, 3/10
- AMS-MAA Joint Meetings, San Francisco, CA 1/10
- Invited Speaker, SASTRA Prize Conference, Kumbakonam, India, 12/09
- Workshop on “Cycles and special values of L -series”, CRM Barcelona, 12/09
- Plenary Speaker, Palmetto Number Theory Series X, 9/09
- Mock theta functions and applications in combinatorics, algebraic geometry, and mathematical physics, Max Planck Institute (Bonn), 5/09
- Number Theory Seminar, Boston College, 4/09
- Quadratic Forms, Sums of Squares, Theta Functions and Integral Lattices, University of Florida, 3/09
- Number Theory Seminar, University of Wisconsin, 2/09
- Colloquium, Texas A&M University, 2/09
- AMS-MAA Joint Meetings, Washington DC, 1/09
- Combinatory Analysis 2008: Partitions, q -series, and Applications, Penn State, 12/08
- Number Theory Seminar, Rice University, 11/08
- Number Theory Seminar, Texas A&M University, 11/08
- Number Theory Seminar, University of Wisconsin, 9/08
- Number Theory Seminar, Texas A&M University, 3/08
- Colloquium, Vanderbilt University, 1/08
- Quebec-Vermont Number Theory Seminar, 11/07
- ETH-Zürich, Number Theory Seminar, 12/06
- Max Planck Institute (Bonn), Number Theory Seminar, 9/06
- AMS Special Session on Modular Forms and Analytic Number Theory, Fayetteville, AR, 11/06
- Universität Tübingen, Oberseminar Geometrische Analysis, 11/05
- Max Planck Institute (Bonn), Number Theory Seminar, 10/05
- Bretton Woods Workshop on Multiple Dirichlet Series, Bretton Woods, NH, 7/05

Teaching:

Instructor, U. of Wisconsin (Madison)

- Modern Algebra, M541, Spring 10
- Analytic Number Theory, M749, Fall 09

- Finite Mathematics, M210, Spring 09
- Elementary Matrix and Linear Algebra, M340, Spring 09
- Calculus with Algebra and Trigonometry I, M171, Fall 08

Instructor, Concordia U. (Montréal)

- Fundamental Mathematics II (Business Calculus), Math 209, Winter 08

Instructor, U. of Texas (Austin)

- Sequences, Series, and Multivariable Calculus, M W408D, Summer 06
- Structure of Modern Geometry, M S333L, Summer 06

Teaching Assistant, U. of Texas (Austin), 2000-2005

Contact Information:

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References:

- Fernando Rodriguez-Villegas, U. of Texas (Austin), villegas@math.utexas.edu
- Henri Darmon, McGill U., darmon@math.mcgill.ca
- Ken Ono, U. of Wisconsin (Madison), ono@math.wisc.edu
- Andrew Granville, U. of Montreal, andrew@dms.umontreal.ca
- Tonghai Yang, U. of Wisconsin (Madison), thyang@math.wisc.edu
- Bruce Palka, U. of Texas (Austin), nlaamm@math.utexas.edu (teaching)