

Curriculum Vitae

Sheng-Chi Liu

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Employment

2009 - present Visiting Assistant Professor, Texas A&M University
2002 - 2003 Research Assistant, National Center for Theoretical Science, Taiwan

Education

2003 - 2009 **Ph.D. in Mathematics, The Ohio State University**
Thesis Advisor: Wenzhi Luo
1996 - 2000 **B.S. in Mathematics, National Tsing Hua University, Taiwan**

Research Interests

Number Theory, Automorphic Forms and Representation Theory

Publications

1. *The L^2 restriction norm of a GL_n Maass form* (with Xiaoqing Li and Matt Young), in preparation.
2. *A subconvexity bound for Rankin-Selberg L -functions in the level aspect, II* (with Riad Masri and Matt Young), in preparation.
3. *A subconvexity bound for Rankin-Selberg L -functions in the level aspect, I* (with Riad Masri and Matt Young), preprint.
4. *The average of the divisor function over values of a quadratic polynomial* (with Riad Masri), submitted.
5. *Growth and nonvanishing of restricted Siegel modular forms arising as Saito-Kurokawa lifts* (with Matt Young), submitted to American Journal of Mathematics.
6. *A note on the variance of the distribution of Heegner points*, International Journal of Number Theory, Vol. 8, No. 2 (2012), 525-529.
7. *Simultaneous nonvanishing of $GL(2) \times GL(2)$ and $GL(2)$ L -functions*, preprint.
8. *Determination of $GL(3)$ cusp forms by central values of $GL(3) \times GL(2)$ L -functions, level aspect*, Journal of Number Theory 131 (2011), 1397-1408.
9. *Determination of $GL(3)$ cusp forms by central values of $GL(3) \times GL(2)$ L -functions*, Int. Math. Res. Not. 2010, Art. ID rnq021, 17pp.
10. *Equidistribution of Hecke eigenforms on the Hilbert modular varieties*, Journal of Number Theory 127 (2007), 1-9.

Awards

- 2006 VIGRE Special Graduate Assignment Fellowship, The Ohio State University
- 2003 Summer Fellowship, Department of Mathematics, The Ohio State University

Selected Seminar Talks

- May 2012 Noncommutative Geometry: Multiple Connections, The Ohio State University
- April 2012 26th Automorphic Forms Workshop, University of British Columbia, Vancouver, Canada
- April 2012 Number Theory Seminar, Texas A&M University
- January 2012 Number Theory Seminar, National Taiwan University
- December 2011 Number Theory Seminar, National Center for Theoretical Science, Taiwan
- October 2011 Number Theory Seminar, Texas A&M University
- September 2011 Texas-Oklahoma Representations and Automorphic forms conference, University of North Texas
- May 2011 Number Theory Seminar, The Ohio State University
- May 2010 AMS meeting, New Jersey Institute of Technology
- February 2010 Number Theory Seminar, Texas A&M University
- January 2010 Number Theory Seminar, National Taiwan University
- December 2009 Number Theory Seminar, National Center for Theoretical Science, Taiwan
- September 2009 Number Theory Seminar, Texas A&M University
- March 2007 Graduate Student Number Theory Seminar, The Ohio State University
- October 2006 Number Theory Seminar, The Ohio State University

Conferences and workshops

- June 2011 The Pretentious View of Analytic Number Theory Mathematics Research Communities, Snowbird Resort, Utah
- March 2011 25th Automorphic Forms Workshop Oregon State University, Corvallis, Oregon
- March 2010 Workshop on Analytic Number Theory, Institute for Advanced Study, New Jersey
- May 2008 Analytic number theory and higher rank groups, the Courant Institute of Mathematical Sciences, New York
- June 2008 Conference on Equidistribution on homogeneous spaces, The Ohio State University
- July 2007 A Conference on Certain L-Functions on the occasion of Freydoon Shahidi's 60th Birthday, Purdue University
- October 2006 Midwest Number Theory Conference for Graduate Students, University of Illinois at Urbana-Champaign
- June 2006 Instructional workshop: Automorphic Galois Representation, L-functions and Arithmetic, Columbia University
- November 2005 Midwest Number Theory Conference for Graduate Students, University of Wisconsin-Madison

Referee Service

Journal of Number theory, The Ramanujan Journal, Proceedings of the American Mathematical Society

Teaching Experience

Texas A&M University

Summer 2012 Instructor for Math 433 (Applied Algebra)
Spring 2012 Instructor for Math 251 (Engineering Mathematics III)
Fall 2011 Instructor for Math 251 (Engineering Mathematics III)
Summer 2011 Instructor for Math 602 (Methods and Applications of PDE)
Spring 2011 Instructor for Math 251 (Engineering Mathematics III)
Fall 2010 Instructor for Math 308 (Differential Equations)
Spring 2010 Instructor for Math 308 (Differential Equations)
Fall 2009 Instructor for Math 141 (Business Mathematics I)

The Ohio State University

Summer 2009 Instructor for Math 366 (Discrete Mathematical Structures I)
Spring 2009 Instructor for Math 131N (Mathematical Analysis for Business II)
Winter 2009 Instructor for Math 131N (Mathematical Analysis for Business II)
Autumn 2008 Instructor for Math 150N (Elementary Functions)
Spring 2008 Instructor for Math 150N (Elementary Functions)
Winter 2008 Instructor for Math 150N (Elementary Functions)
Autumn 2007 Instructor for Math 150N (Elementary Functions)
Spring 2007 Teaching Associate for Math 254 (Calculus and Analytic Geometry IV)
Winter 2007 Teaching Associate for Math 153 (Calculus and Analytic Geometry III)
Autumn 2006 Teaching Associate for Math 150 (Elementary Functions)
Spring 2006 Teaching Associate for Math 152 (Calculus and Analytic Geometry II)
Autumn 2005 Teaching Associate for Math 151 (Calculus and Analytic Geometry I)
Spring 2005 Teaching Associate for Math 151 (Calculus and Analytic Geometry I)

References

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Matthew Young
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Teaching References

Al Boggess
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