

Matthew G. Boylan

CONTACT INFORMATION LeConte College *Phone:* (803) 777-7542
Mathematics Department *Fax:* (803) 777-3783
University of South Carolina *E-mail:* boylan@math.sc.edu
Columbia, SC 29208 USA *WWW:* <http://people.math.sc.edu/boylan/>

CITIZENSHIP Born October 9, 1976 in Stevens Point, WI, USA

RESEARCH INTERESTS Number theory, modular forms.

EDUCATION **University of Wisconsin at Madison**, Madison, WI USA
Ph.D., Pure Mathematics, August 2002
 • Thesis: “Congruences for the Fourier Coefficients of Modular Forms with Applications”
 • Advisor: Ken Ono

University of Wisconsin at Madison, Madison, WI USA
B.S., Pure Mathematics, May, 1999

PROFESSIONAL POSITIONS **University of South Carolina**, Columbia, SC USA
Professor Jan 2015 - present
Associate Professor Aug 2009 - Jan 2015
Assistant Professor Aug 2005 - Aug 2009

University of Illinois at Urbana-Champaign, Urbana, IL USA
NSF VIGRE Visiting Research Assistant Professor Aug 2002 - Aug 2005

PUBLICATIONS **1.** U_p -operators and congruences for Shimura images, *Journal of Number Theory*, (2020), doi: <https://doi.org/10.1016/j.jnt.2020.08.006>.
2. Hecke operators on certain subspaces of integral weight modular forms. (with K. Brown). *International Journal of Number Theory*, **10** (2014), no. 7, 1909 - 1919.
3. Congruences for the partition function modulo prime powers. (with J. Webb) *Transactions of the American Mathematical Society*, **365** (2013), 2169 - 2206.
4. On the vanishing of Fourier coefficients of certain genus zero newforms. (with S. Garthwaite and J. Webb). *International Journal of Number Theory*, **7** (2011), no. 5, 1229-1245.
5. Quadratic AGM and p -adic limits arising from modular forms. (with S. Garthwaite) *Bulletin of the London Mathematical Society* **42** (2010), no. 3, 527 - 537.
6. Arithmetic properties of certain level one mock modular forms. *International Journal of Number Theory* **6** (2010), no. 1, 185-202.

- 7.** Odd coefficients of weakly holomorphic modular forms. (with S. Ahlgren)
Mathematics Research Letters **15** (2008), no. 3, 409-418.
- 8.** Central critical values of modular L -functions and coefficients of half-integral weight modular forms modulo ℓ . (with S. Ahlgren)
American Journal of Mathematics **129** (2007), no. 2, 429-454.
- 9.** Non-vanishing of the partition function modulo small primes.
International Mathematics Research Notices (2006), Art. ID 46120, 17 pp.
- 10.** 2-adic properties of Hecke traces of singular moduli.
Mathematics Research Letters **12** (2005), no. 4, 593-609.
- 11.** Coefficients of half-integral weight modular forms modulo ℓ^j . (with S. Ahlgren)
Mathematische Annalen **331** (2005), no. 1, 219-241.
- 12.** Exceptional congruences for powers of the partition function.
Acta Arithmetica **111** (2004), no. 2, 187-203.
- 13.** Arithmetic properties of the partition function. (with S. Ahlgren)
Inventiones Mathematicae **153** (2003), no. 3, 487-502.
- 14.** Exceptional congruences for coefficients of certain eta-product newforms.
Journal of Number Theory **98** (2003), no. 2, 377-389.
- 15.** Congruences for 2^t -core partition functions.
Journal of Number Theory **92** (2002), no. 1, 131-138.
- 16.** Parity of the partition function in arithmetic progressions, II. (with K. Ono)
Bulletin of the London Mathematical Society **33** (2001), no. 5, 558-564.
- 17.** Swinnerton-Dyer type congruences for certain Eisenstein series.
q-Series with Applications to Combinatorics, Number Theory, and Physics (Urbana, IL, 2000), 93-108, Contemporary Mathematics, 291, Amer. Math. Soc., Providence, RI, 2001.
- 18.** Congruences for ${}_2F_1$ hypergeometric functions over finite fields.
Ramanujan Journal **5** (2001), no. 4, 385-390.

PAPERS IN
PREPARATION

- Hecke operators and eta-quotients (with C. Warnock)
- Explicit formulas for the Shimura Correspondence.

GRANTS

I. Personal Grants

SC EPSCoR IDeA Scientific Advocate Network 18-SA06, \$10,000 <i>Graduate Recruiting in Mathematics at the University of South Carolina</i>	2018 - 2020
NSF DMS-0901068, <i>Harmonic Maass Forms</i> (PI), \$121,000	2009 - 2012
NSF DMS-0600400, <i>Modular Forms and Number Theory</i> (PI), \$109,930	2006 - 2009

II. Conference Grants

A. National Science Foundation

• DMS-2001418, <i>Number Theory Meetings in the Southeast</i> (PI), \$15,316	2020 - 2021
• DMS-1902170, <i>Number Theory Meetings in the Southeast</i> (co-PI), \$15,051	2019 - 2020
• DMS-1802259, <i>Number Theory Meetings in the Southeast</i> (PI), \$14,980	2018 - 2019
• DMS-1701290, <i>Number Theory Meetings in the Southeast</i> (co-PI), \$22,233	2017 - 2018
• DMS-1601239, <i>Number Theory Meetings in the Southeast</i> (PI), \$14,695	2016 - 2017
• DMS-1502293, <i>Number Theory Meetings in the Southeast</i> (co-PI), \$13,695	2015 - 2016
• DMS-1404714, <i>Number Theory Meetings in the Southeast</i> (co-PI), \$13,360	2014 - 2015
• DMS-1303254, <i>Number Theory Meetings in the Southeast</i> (co-PI), \$12,696	2013 - 2014
• DMS-1201126, <i>Number Theory Meetings in the Southeast</i> (co-PI), \$12,012	2012 - 2013
• DMS-1101301, <i>Number Theory Meetings in the Southeast</i> (co-PI), \$11,223	2011 - 2012
• DMS-1001553, <i>Palmetto Number Theory Series</i> (PI), \$13,423	2010 - 2011
• DMS-0901732, <i>Palmetto Number Theory Series</i> (co-PI), \$11,096	2009 - 2010
• DMS-0801150, <i>Palmetto Number Theory Series</i> (PI), \$7,950	2008 - 2009
• DMS-0703547, <i>Palmetto Number Theory Series</i> (co-PI), \$7,413	2007 - 2008

B. National Security Agency

• <i>Number Theory Meetings in the Southeast</i> (PI), \$16,828	2020 - 2021
• <i>Number Theory Meetings in the Southeast</i> (PI), \$14,170	2018 - 2019
• <i>Number Theory Meetings in the Southeast</i> (PI), \$14,625	2016 - 2017
• <i>Number Theory Meetings in the Southeast</i> (co-PI), \$14,670	2014 - 2015
• <i>Number Theory Meetings in the Southeast</i> (co-PI), \$14,942	2012 - 2013
• <i>Palmetto Number Theory Series</i> (PI), \$15,513	2010 - 2011
• <i>Palmetto Number Theory Series</i> (PI), \$10,070	2008 - 2009

INVITED
CONFERENCE
PRESENTATIONS

1. <i>Arithmetic properties of a distinguished subspace of modular forms,</i> AMS Special Session on Connections in Number Theory, Greensboro, NC	Nov 2014
2. <i>Explicit formulas for the Shimura Correspondence,</i> AMS Special Session on Arithmetic of Algebraic Curves, Knoxville, TN	Mar 2014
3. <i>The partition function modulo prime powers,</i> AMS Special Session on Harmonic Maass Forms and q -series, Tucson, AZ	Oct 2012
4. <i>The partition function modulo prime powers,</i> Automorphic Forms Symposium, Cologne, Germany	Feb 2012
5. <i>The arithmetic-geometric mean and p-adic limits of modular forms,</i> International Conference on Number Theory, SASTRA Univ., Kumbakonam, India	Dec 2009
6. <i>The arithmetic-geometric mean and p-adic limits of modular forms,</i> AMS Special Session on Modular and Automorphic Forms, Boca Raton, FL	Oct 2009

7. *Mock modular forms on $SL_2(\mathbb{Z})$,* Jan 2009
AMS Special Session on Automorphic and Modular Forms, Washington, D.C
8. *Eulerian series and modularity,* Mar 2008
MAA Special Session on Combinatorial Number Theory, Charleston, SC.
9. *Mock modular forms on $SL_2(\mathbb{Z})$,* Mar 2008
Conference on Partitions, q -series, and Modular Forms, Gainesville, FL.
10. *Odd coefficients of weakly holomorphic modular forms,* Jan 2008
AMS Special Session on Automorphic Forms and Related Topics, San Diego, CA.
11. *Odd coefficients of weakly holomorphic modular forms,* Oct 2007
Integers Conference 2007, Carrollton, GA.
12. *Non-vanishing of the partition function modulo small primes,* Oct 2006
21st Annual Clemson University Mini-Conference on Combinatorics and Optimization, Clemson, SC.
13. *Non-vanishing of the partition function modulo small primes,* Apr 2006
AMS Special Session on q -series and Partitions, San Francisco, CA.
14. *Non-vanishing of the partition function modulo small primes,* Apr 2006
AMS Special Session on Number Theory, South Bend, IN.
15. *Non-vanishing of central critical values of modular L -functions modulo ℓ ,* Mar 2005 AMS
Special Session on L -functions, Bowling Green, KY.
16. *Arithmetic properties of the partition function,* Nov 2004
Conference on Additive Number Theory, Gainesville, FL.
17. *Coefficients of half-integral weight modular forms modulo ℓ^j ,* Nov 2003
Integers Conference 2003, Carrollton, GA.
18. *Arithmetic properties of the partition function,* May 2003
AMS Special Session on q -Series and Partitions, San Francisco, CA.
19. *Arithmetic properties of the partition function,* Oct 2002
AMS Special Session on Arithmetic Algebraic Geometry, Madison, WI.
20. *Exceptional congruences for modular form coefficients,* Mar 2002
AMS Special Session on Number Theory, Atlanta, GA.
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COLLOQUIUMS	1. <i>Modular forms and partitions</i> , University of Florida	Feb 2010
	2. <i>Modular forms and partitions</i> , Georgia Southern University	Sep 2009
	3. <i>Modular forms and partitions</i> , Bucknell University	Mar 2009
	4. <i>Modular forms and partitions</i> , Furman University	Feb 2006
	5. <i>Arithmetic properties of the Fourier coefficients of modular forms</i> , University of Iowa	Feb 2005
	6. <i>Arithmetic properties of the Fourier coefficients of modular forms</i> , University of Colorado	Feb 2005
	7. <i>Arithmetic properties of the Fourier coefficients of modular forms</i> , Texas A&M University	Feb 2005
	8. <i>Arithmetic properties of the Fourier coefficients of modular forms</i> , University of Pittsburgh	Jan 2005
	9. <i>Arithmetic properties of the Fourier coefficients of modular forms</i> , University of South Carolina	Jan 2005
	10. <i>Arithmetic properties of the Fourier coefficients of modular forms</i> , University of Oregon	Jan 2005
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INVITED SEMINARS	1. <i>Modular forms and the roots of $x^3 - x - 1 \pmod{p}$</i> , Clemson University	Jun 2012
	2. <i>The partition function modulo prime powers</i> , Emory University	Aug 2012
	3. <i>Quadratic AGM and p-adic limits of modular forms</i> , Brigham Young University	Nov 2010
	4. <i>Quadratic AGM and p-adic limits of modular forms</i> , Emory University	Sep 2010
	5. <i>The irrationality of $\zeta(3)$ and arithmetic properties of Apéry numbers</i> . Clemson University	Jun 2010
	6. <i>Quadratic AGM and p-adic limits of modular forms</i> , University of Florida	Feb 2010
	7. <i>Quadratic AGM and p-adic limits of modular forms</i> , University of Wisconsin	Jun 2009

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| 8. <i>Hecke operators in the study of harmonic Maass forms,</i>
Bucknell University | Apr 2009 |
| 9. <i>Theta cycles in the study of partition functions,</i>
University of Wisconsin | Jun 2008 |
| 10. <i>Mock modular forms on $SL_2(\mathbb{Z})$,</i>
Texas A&M University | Mar 2008 |
| 11. <i>Ramanujan's congruences,</i>
Clemson University | Jun 2006 |
| 12. <i>Ramanujan's congruences,</i>
University of Wisconsin | Jun 2006 |
| 13. <i>Non-vanishing of $p(n)$ modulo 3,</i>
Penn State University | Apr 2006 |
| 14. <i>Arithmetic properties of the partition function,</i>
Clemson University | Apr 2006 |
| 15. <i>Modular forms and partitions,</i>
University of Georgia | Oct 2005 |
| 16. <i>Non-vanishing of central critical values of modular L-functions modulo ℓ,</i>
University of Georgia | Oct 2005 |
| 17. <i>Non-vanishing of central critical values of modular L-functions modulo ℓ,</i>
Johns Hopkins University | Apr 2005 |
| 18. <i>Non-vanishing of central critical values of modular L-functions modulo ℓ,</i>
Texas A&M University | Nov 2004 |
| 19. <i>Non-vanishing of central critical values of modular L-functions modulo ℓ,</i>
Purdue University | Oct 2004 |
| 20. <i>Half-integral weight modular forms with few non-vanishing coefficients modulo ℓ,</i>
University of Wisconsin | Oct 2004 |
| 21. <i>Coefficients of half-integral weight modular forms modulo ℓ^j,</i>
University of Wisconsin | Feb 2004 |

PUBLIC
PRESENTATIONS

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|---|----------|
| 1. <i>Counting to infinity: My journey into mathematics,</i>
Last Lecture Series, University of South Carolina | Apr 2017 |
| 2. <i>Slices of Pi,</i>
Pi Day Address, Spring Valley High School, Columbia, SC | Mar 2017 |
| 3. <i>Addition and Counting,</i>
Steps to STEM, University of South Carolina | Oct 2011 |
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CONTRIBUTED
CONFERENCE
PRESENTATIONS

1. *Quadratic AGM and p -adic limits of modular forms*,
Palmetto Number Theory Series X, Armstrong Atlantic State University Sep 2009
2. *Mock modular forms on $SL_2(\mathbb{Z})$* ,
Southeastern Regional Meeting on Numbers, Clemson University Apr 2008
3. *Odd coefficients of weakly holomorphic modular forms*,
Palmetto Number Theory Series III, Charleston, SC Oct 2007
4. *Coefficients of weakly holomorphic modular forms modulo ℓ* ,
Illinois Number Theory Fest, University of Illinois May 2007
5. *Non-vanishing of weakly holomorphic modular form coefficients modulo ℓ* ,
Southeastern Regional Meeting on Numbers, Wake Forest University Apr 2007
6. *Non-vanishing of the partition function modulo small primes*,
9th Meeting of the Canadian Number Theory Association,
University of British Columbia Jul 2006
7. *Non-vanishing of the partition function modulo small primes*,
Southeast Regional Meeting on Numbers, Furman University Mar 2006
8. *Central critical values of modular L -functions modulo ℓ* ,
West Coast Number Theory Conference, Pacific Grove, CA Dec 2005
9. *2-adic properties of traces of singular moduli*,
West Coast Number Theory Conference, University of Nevada at Las Vegas Dec 2004
10. *2-adic properties of traces of singular moduli*,
8th Meeting of the Canadian Number Theory Association,
University of Toronto Jun 2004
11. *Coefficients of half-integral weight modular forms modulo ℓ^j* ,
Conference in Honor of Morris Newman's 80th Birthday,
University of California at Santa Barbara Apr 2004
12. *2-adic properties of traces of singular moduli*,
18th Annual Workshop on Automorphic Forms and Related Topics,
University of California at Santa Barbara Mar 2004
13. *Coefficients of half-integral weight modular forms modulo ℓ^j* ,
West Coast Number Theory Conference, Pacific Grove, CA Dec 2003
14. *Coefficients of half-integral weight modular forms modulo ℓ^j* ,
Midwest Number Theory Conference, University of Wisconsin Oct 2003
15. *Exceptional congruences for modular form coefficients*,
7th Meeting of the Canadian Number Theory Association,
University of Montreal May 2002
16. *Exceptional congruences for modular form coefficients*,
West Coast Number Theory Conference, Pacific Grove, CA Dec 2002

17. *Exceptional congruences for modular form coefficients*, May 2001
 Illinois Number Theory Conference, University of Illinois
18. *Parity of the partition function in arithmetic progressions*, Dec 2000
 West Coast Number Theory Conference, University of San Diego
19. *Parity of the partition function in arithmetic progressions*, Oct 2000
q-Series with Applications to Combinatorics, Number Theory, and Physics,
 University of Illinois
20. *Congruences for 2^t -core partition functions*, May 2000
 Millennial Conference on Number Theory, University of Illinois

HONORS AND
 AWARDS

- University of South Carolina Rising Star Award 2011
- Project NExT (New Experiences in Teaching) Fellow 2005 - 2006
- University of Illinois Incomplete List of Teachers 2004
 Ranked as Excellent by Their Students
- West Coast Number Theory Conference Selfridge Prize 2003
 for Excellence in Mathematics Presentation
- University of Wisconsin NSF VIGRE Graduate Student Fellow 1999 - 2001
- Phi Beta Kappa, University of Wisconsin 1998

TEACHING

I. Undergraduate Courses

A. University of South Carolina

- Math 122, Calculus for Business Administration and Social Science Fall 2008
- Math 141, Calculus I Fall 2005
- Math 142, Calculus II Fall 2010, Spring 2010
- Math 241H, Honors Calculus III Fall 2011, 2012, 2014 - 2019;
 Spring 2013 - 2017, 2020
- Math 374, Discrete Structures Spring 2009
- Math 531, Foundations of Geometry Fall 2011, 2014, 2016 - 2018
- Math 544H, Honors Linear Algebra Spring 2006, 2014, 2016
- Math 544, Linear Algebra Spring 2007, Fall 2007
- Math 546H, Honors Abstract Algebra I Fall 2009
- Math 546, Abstract Algebra I Spring 2017, 2019
- Math 547H, Honors Abstract Algebra II Spring 2010
- Math 550H, Honors Vector Calculus Spring 2011
- Math 580, Number Theory Fall 2009; Summer 2013, 2014

B. University of Illinois

- Math 213, Discrete Mathematics Spring 2004
- Math 285, Differential Equations Fall 2002
- Math 305, Mathematics for High School Teachers Spring 2003
- Math 353/453, Number Theory Fall 2003, Spring 2005
- Math 413, Combinatorics Fall 2004

II. Graduate Courses

University of South Carolina

- Math 701, Algebra I Fall 2012, 2020
 - Math 702, Algebra II Spring 2013, 2021
 - Math 780, Elementary Number Theory Fall 2015
 - Math 784, Algebraic Number Theory Spring 2008, 2010, 2018
 - Math 788B, Introduction to Modular Forms Fall 2006, 2015; Spring 2012
 - Math 788E, Arithmetic of Elliptic Curves Fall 2008
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MENTORING

I. Graduate Students

Ph.D Students

- Cuyler Warnock, 2022 (expected)
- Kenny Brown, 2013
- John Webb, 2011, currently tenured Associate Professor at James Madison University

Masters Students

- Jennifer Larson, 2008
- Jonathan Mason, 2007
- Mohamad Youssef, 2007

II. Undergraduate Students

Honors Theses Advised

- Jacob Folks, 2021 (expected)
 - Nicholas Torello, 2019
 - Marisa Rank, 2018
 - Cathy Hardin, 2012
 - Timothy Harper, 2010
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REFEREE WORK

99 articles refereed in the following 36 journals:

Abhandlungen aus dem Mathematischen Seminar der Universität Hamburg, Acta Arithmetica, Advances in Mathematics, American Mathematical Monthly, Annals of Combinatorics, Applicable Analysis and Discrete Mathematics, Archiv der Mathematik, Bulletin of the Australian Mathematical Society, Canadian Journal of Mathematics, Colloquium Mathematicum, Discrete Mathematics, Electronic Journal of Combinatorics, European Journal of Combinatorics, Fields Institute Communications Series, Integers, International Journal of Mathematics and Mathematical Sciences, International Journal of Number Theory, International Mathematics Research Notices, Israel Journal of Mathematics, Involve, Journal de Théorie des Nombres Bordeaux, Journal of Combinatorial Theory Series A, Journal of Computational Mathematics and Optimization, Journal of Number Theory, Monatshefte für Mathematik, Proceedings of the American Mathematical Society, Proceedings of the Edinburgh Mathematical Society, Proceedings of the London Mathematical Society, Proceedings of the National Academy of Sciences, Ramanujan Journal, Research in the Mathematical Sciences, Research in Number Theory, Rocky Mountain Journal of Mathematics, SpringerPlus, Transactions of the American Mathematical Society.

Mathematical Reviews (2002 - 2010): 65 articles

SERVICE

A. Department Service

- Ad Hoc Budget Committee Fall 2010 - Spring 2011
- Ad Hoc Faculty Replenishment Committee Fall 2010, Fall 2011
- Ad Hoc Promotion and Tenure Document Revision Committee Fall 2012 - Spring 2013
- Awards Committee Fall 2019 - present
- Colloquium Committee Fall 2011 - Spring 2013, Spring 2014 - Spring 2017, Fall 2019 - present
- Committee of Full Professors (Chair) Fall 2015, Spring 2016
- Director of Graduate Studies Fall 2017 - present
- Faculty Advisory Committee Fall 2007 - Spring 2009, Fall 2010 - Spring 2012, Fall 2016 - Spring 2018
- High School Math Contest Committee Fall 2005, Fall 2009 - Spring 2011
- Hiring Committee Fall 2006, Spring 2007, Fall 2011 - Spring 2013, Fall 2014, Spring 2015
- Peer Review of Teaching Committee T Spring 2014
- Ph.D Algebra Qualifying Exam Co-Author Fall 2012, Spring 2013, Fall 2013, Spring 2014
- Ph.D Thesis Committees Spring 2003 - present
(14 total, including 2 of my own, and 3 at U. Illinois)
- Pi Mu Epsilon and Gamecock Math Club Advisor Fall 2005 - Spring 2008
- Post-Tenure Review Committee Chair Fall 2016, Spring 2017
- Self-Study Committee Fall 2017, Spring 2018
- Undergraduate Advising Committee Fall 2005 - Spring 2013
- Undergraduate Advisory Council Fall 2008 - Spring 2011

B. College of Arts and Sciences and University

- Academic Planning Council of the College of Arts and Sciences Spring 2014 - Spring 2016
- Faculty Senator Fall 2007 - Spring 2010
- Graduate School Council Fall 2018 - present
- McNair Scholar Mentor (mentored 4 students) Fall 2011 - Spring 2018
- Non-Tenure Track Working Group of the College of Arts and Sciences Fall 2016, Spring 2017
- South Carolina Honors College Faculty Fellow Fall 2017 - present
- University Faculty Grievance Committee Fall 2018 - present

C. Other Service

- American Mathematical Society Southeast Section Program Committee 2010 - 2012
- External Advisor for Senior Thesis of two local high school students Spring 2006, Fall 2009
- External Reviewer for 6 Tenure and Promotion Cases Fall 2010 - Fall 2018
- James L. Solomon Jr. Event Planning Committee Fall 2018, Spring 2019
- Judge for UofSC Junior Science and Humanities Symposium 2009 - 2016
- Judge for UofSC Region II Science and Engineering Fail 2006 - 2010
- Pre-tenure Leave Host for Sharon Garthwaite, Bucknell University Fall 2009
- Review of 5 grants (NSA, NSF) 2006 - 2011
- Volunteer for UofSC High School Mathematics Contest 2006 - present

- CONFERENCES AND SEMINAR ORGANIZATION
- I. Conferences Organized**
- A. Palmetto Number Theory Series (PANTS) 2006 - present
 - Conference series co-founder
 - Local host and grant administrator
 - B. Southeastern Regional Meeting on Numbers (SERMON) Fall 2006 - 2010, Fall 2012, 2014, 2016, 2018
(Grant administrator in even-numbered years) Fall 2012 - present
 - C. Illinois Number Theory Conference Spring 2004
- II. Special Sessions of the American Mathematical Society Organized**
- A. *Automorphic Forms and Related Topics*, Fall 2014
Southeast Sectional Meeting, UNC-Greensboro
 - B. *Modular Forms in Number Theory*, Fall 2011
Southeast Sectional Meeting, Wake Forest University
 - C. *Modular Forms and Analytic Number Theory*, Fall 2006
Southeast Sectional Meeting, University of Arkansas
- III. Seminars Organized**
- A. Number Theory Seminar, University of South Carolina Fall 2005 - Fall 2012
 - B. Number Theory Seminars, University of Illinois Fall 2004, Spring 2005
 - C. Seminar on “Topics in Modular Forms”, University of Illinois Spring 2004