

# AMANDA L. FOLSOM

---

CONTACT INFORMATION	Amherst College Department of Mathematics and Statistics Amherst, MA 01002	<a href="mailto:afolsom@amherst.edu">afolsom@amherst.edu</a> <a href="http://www.amherst.edu/~afolsom">http://www.amherst.edu/~afolsom</a>
RESEARCH INTERESTS	Analytic and Algebraic Number Theory, Harmonic Maass Forms, Modular Forms, Jacobi Forms, Mock and Quantum Modular Forms, Combinatorics, Lie Theory	
EDUCATION	<b>Ph.D. Mathematics</b> University of California, Los Angeles <i>Advisor: William D. Duke</i>	Jun. 2006
	<b>M.S. Mathematics</b> University of California, Los Angeles	Dec. 2002
	<b>B.A. Mathematics</b> University of Chicago (with honors)	Jun. 2001
EMPLOYMENT	<ul style="list-style-type: none"><li>• <b>Amherst College</b> Full Professor 2019 – Department Chair 2019 – Associate Professor 2014 – 2019</li><li>• <b>Yale University</b> Associate Professor 2014 Assistant Professor 2010 – 2014</li><li>• <b>University of Wisconsin-Madison</b> NSF Postdoctoral Fellow 2007 – 2010</li><li>• <b>Max-Planck-Institut für Mathematik, Bonn</b> Postdoc Fellow 2006 – 2007</li></ul>	
VISITING POSITIONS <i>(most while on sabbatical leaves)</i>	<ul style="list-style-type: none"><li>• <b>University of Cambridge, Isaac Newton Institute</b> Summer 2021* Kirk Distinguished Visiting Fellow (nominated*)</li><li>• <b>Institute for Advanced Study, Princeton</b> Spring 2019, Spring 2016 von Neumann Fellow and Member</li><li>• <b>Max-Planck-Institut für Mathematik, Bonn</b> Fall 2015, Spring 2013</li><li>• <b>Emory University</b> Fall 2012</li></ul> <p><i>*nomination and event/travel pending due to Covid-19.</i></p>	
GRANTS AND AWARDS	<ul style="list-style-type: none"><li>• <b>National Science Foundation Grant (P.I.)</b> 2019 – 2022 DMS-1901791, \$252,174</li><li>• <b>A.M. (hon.), Amherst College</b> 2019</li><li>• <b>Simons Fellow in Mathematics</b>, Simons Foundation 2018 – 2019 ID 561663, \$112,155</li><li>• <b>Prose Award, Association of American Publishers</b> 2018 Best Scholarly Book in Mathematics</li><li>• <b>National Science Foundation CAREER Grant (P.I.)</b> 2013 – 2019 DMS-1449679 and DMS-1252815, \$437,000</li><li>• <b>Institute for Advanced Study, Princeton</b> Spring 2019, Spring 2016 von Neumann Fellowship and Member</li><li>• <b>National Science Foundation Conference Grants (co-P.I.)</b> DMS-1608789, \$25,000 (CT Summer School in Number Theory) 2016 DMS-1802058, \$21,000 (Automorphic Forms Workshop) 2018</li><li>• <b>Amherst College Trustee Faculty Fellowship</b> 2015 – 2016</li><li>• <b>Yale University Junior Faculty Fellowship</b> 2012 – 2013</li><li>• <b>National Science Foundation Grant (P.I.)</b> 2010 – 2013 DMS-1049553, \$75,875</li><li>• <b>National Science Foundation Postdoctoral Fellowship (P.I.)</b> 2007 – 2010 DMS-0701461, \$108,000</li><li>• <b>University of Wisconsin-Madison Honored Instructors Award</b> 2009</li><li>• <b>University of California Dissertation Year Fellowship</b> 2005 – 2006</li><li>• <b>UCLA Graduate Research Mentorship Fellowship</b> 2004 – 2005</li><li>• <b>National Science Foundation VIGRE Graduate Fellow</b> 2001 – 2002</li><li>• <b>Salutatorian, BFHS</b> 1997</li></ul>	

EDITORIAL  
BOARDS  
& NATIONAL  
COMMITTEES

- **Editorial Board**, Proceedings of the American Math. Soc. 2018 – present
- **Editorial Board**, Journal of Number Theory, Elsevier 2017 – present
- **Editorial Board**, Research in Number Theory, Springer 2014 – present
- **MAA Committee on Invited Paper Sessions** 2020 – present
- **Book co-Editor**, Springer Res. Dir. Num. Thy, Women in Numbers 4, 2017 – 2019

PUBLICATIONS

**57 total publications.** Publications are available at:

<http://www.amherst.edu/~afolsom/AmandaFolsom/Publications.html>

---

**I. BOOK**

1. K. Bringmann, A. Folsom, K. Ono, and L. Rolin, *Harmonic Maass forms and Mock Modular Forms: Theory and Applications*, **American Math. Society Colloquium Publications**, **64**, AMS, Providence, 2018. 391 pp.

**II. RESEARCH ARTICLES**

2. A. Folsom, *Asymptotic expansions, partial theta functions, and radial limit differences of mock modular and modular forms*, **International Journal of Number Theory**, recommended for publication, (2020). 10 pp.
3. A. Folsom, *Twisted Eisenstein series, cotangent-zeta sums, and quantum modular forms*, **Transactions of the London Mathematical Society**, recommended for publication, (2020). 17 pp.
4. A. Folsom, M-J Jang, S. Kimport, and H. Swisher, *Quantum modular forms and singular combinatorial series with repeated roots of unity*, **Acta Arithmetica**, 194.4 (2020), pp. 393–421.
5. M. Barnett, A. Folsom, and W. Wesley, *Rank generating functions for odd-balanced unimodal sequences, quantum Jacobi forms and mock Jacobi forms*, **Journal of the Australian Mathematical Society**, accepted for publication, (2020). 21 pp.
6. A. Folsom, *Quantum Jacobi forms in number theory, topology, and mathematical physics*, **Research in the Mathematical Sciences**, 6:25 (2019). 34pp.
7. G. Carroll, J. Corbett, A. Folsom, and E. Thieu, *Universal mock theta functions as quantum Jacobi forms*, **Research in the Mathematical Sciences** 6:6 (2019). 15 pp.
8. A. Folsom, M-J Jang, S. Kimport, and H. Swisher, *Quantum modular forms and singular combinatorial series with distinct roots of unity*, **Springer Research Directions in Number Theory: Women in Numbers IV**. Association for Women in Mathematics Series, vol. 19. Springer, (2019). pp. 173–195.
9. M. Barnett, A. Folsom, O. Ukogu, W.J. Wesley, and H. Xu, *Quantum Jacobi forms and balanced unimodal sequences*, **Journal of Number Theory** 186 (2018), pp. 16–34.
10. K. Bringmann, A. Folsom, and A. Milas, *Asymptotic behavior of partial and false theta functions arising from Jacobi forms and regularized characters*, **Journal of Mathematical Physics** 58 011702 (2017), 19 pp.
11. A. Folsom, C. Ki, Y.N. Truong Vu, and B. Yang, *Strange combinatorial quantum modular forms*, **Journal of Number Theory** 170 (2017), pp. 315–346.
12. K. Bringmann and A. Folsom, *Quantum Jacobi forms and finite evaluations of unimodal rank generating functions*, **Archiv der Mathematik** 107 (2016), pp. 367–378.
13. A. Folsom, S. Garthwaite, S-Y Kang, H. Swisher, and S. Treneer, *Quantum mock modular forms arising from eta-theta functions*, **Research in Number Theory** 2:14 (2016), 41 pp.
14. A. Folsom, *Mock and mixed mock modular forms in the lower half-plane*, **Archiv der Mathematik** 107 (2016), pp. 487–498.

15. A. Folsom and P. Jenkins, *Zeros of modular forms of half integral weight*, **Research in Number Theory** 2:23 (2016), 25pp.
16. A. Folsom, Y. Homma, J. Ryu, and B. Tong, *On a general class of non-squashing partitions*, **Discrete Mathematics** 339 iss. 5 (2016), pp. 1482–1506.
17. K. Bringmann, A. Folsom, and K. Mahlburg, *Quasimodular forms and  $sl(m|m)^\wedge$  characters*, **Ramanujan Journal** 36 (2015), pp. 103–116.
18. K. Bringmann, A. Folsom, and R.C. Rhoades, *Unimodal sequences and “strange” functions: a family of quantum modular forms*, **Pacific Journal of Mathematics** 274 no. 1 (2015), pp. 1–25.
19. A. Folsom, W. Kohnen, and S. Robins, *Conic theta functions and their relations to theta functions*, **Annales de l’Institut Fourier (Grenoble)** 65 no. 3 (2015), pp. 1133–1151.
20. K. Bringmann, C. Calinescu, A. Folsom, and S. Kimport, *Graded dimensions of principal subspaces and modular Andrews-Gordon series*, **Communications in Contemporary Mathematics** 16 no. 4 (2014), 1350050, 20 pp.
21. K. Bringmann and A. Folsom, *Almost harmonic Maass forms and Kac-Wakimoto characters*, **Journal für die reine und angewandte Mathematik (Crelle’s Journal)** 694 (2014), pp. 179–202.
22. A. Folsom, *Mock modular forms and  $d$ -distinct partitions*, **Advances in Mathematics** 254 (2014), pp. 682–705.
23. A. Folsom, K. Ono, and R.C. Rhoades, *Ramanujan’s radial limits*, **Contemporary Mathematics** 627, Ramanujan 125, pp. 91–102, eds. K. Alladi, F. Garvan, and A.J. Yee, American Mathematical Society (2014).
24. K. Bringmann and A. Folsom, *On a conjecture of B. Berndt and B. Kim*, **Ramanujan Journal** 32 (2013), pp. 1–4.
25. K. Bringmann and A. Folsom, *On the asymptotic behavior of Kac-Wakimoto characters*, **Proceedings of the American Mathematical Society** 141 no. 5 (2013), pp. 1567–1576.
26. A. Folsom and S. Kimport, *Mock modular forms and singular combinatorial series*, **Acta Arithmetica** 159.3 (2013), pp. 257–297.
27. A. Folsom, K. Ono, and R.C. Rhoades, *Mock theta functions and quantum modular forms*, **Forum of Mathematics Pi** 1 (2013), pp. 1–27.
28. K. Bringmann, A. Folsom, and R.C. Rhoades, *Partial theta functions and mock modular forms as  $q$ -hypergeometric series*, **Ramanujan Journal** 29 (2012), pp. 295–310.
29. W. Castryck, A. Folsom, H. Hubrechts, and A.V. Sutherland, *The probability that the number of points on the Jacobian of a genus 2 curve is prime*, **Proceedings of the London Mathematical Society** (3) 104 (2012), pp. 1235–1270.
30. A. Folsom, Z. Kent, and K. Ono,  *$\ell$ -adic properties of the partition function*, **Advances in Mathematics** 229 (2012), pp. 1586–1609.
31. A. Folsom, *Kac-Wakimoto characters and universal mock theta functions*, **Transactions of the American Mathematical Society** 363 no. 1 (2011), pp. 439–455.
32. A. Folsom and R. Masri, *The asymptotic distribution of traces of Maass-Poincaré series*, **Advances in Mathematics** 226 (2011), pp. 3724–3759.
33. A. Folsom, *Modular units and the  $q$ -difference equations of Selberg*, **Mathematical Research Letters** (17) no. 2 (2010), pp. 283–299.
34. A. Folsom, *Modularity and the distinct rank function*, **Ramanujan Journal** 23 (2010), pp. 183–193.
35. A. Folsom and R. Masri, *Equidistribution of Heegner points and the partition function*, **Mathematische Annalen** 348 no. 2 (2010), pp. 289–317.

36. K. Bringmann, A. Folsom, and K. Ono, *q-series and weight 3/2 Maass forms*, **Compositio Mathematica** 145 (2009), pp. 541–552.
37. A. Folsom, *A characterization of the modular units*, **International Journal of Number Theory** (5) no. 2 (2009), pp. 303–310.
38. A. Folsom, *A short proof of the mock theta conjectures using Maass forms*, **Proceedings of the American Mathematical Society** 136 (2008), pp. 4143–4149.
39. A. Folsom, *Class invariants and cyclotomic unit groups from special values of modular units*, **Journal de Théorie des Nombres de Bordeaux** (20) no. 2 (2008), pp. 289–325.
40. A. Folsom and K. Ono, *Duality involving the mock theta function  $f(q)$* , **Journal of the London Mathematical Society** (2) 77 (2008), pp. 320–334.
41. A. Folsom and K. Ono, *The spt-function of Andrews*, **Proceedings of the National Academy of Sciences, USA** 105 no. 51 (2008), pp. 20152–20156.
42. A. Folsom, *Modular forms and Eisenstein’s continued fractions*, **Journal of Number Theory** 117 (2006), pp. 279–291.
43. E. Burger, A. Folsom, A. Pekker, R. Roengpitya, and J. Snyder, *On a quantitative refinement of the Lagrange spectrum*, **Acta Arithmetica** 102.1 (2002), pp. 55–82.

### III. EXPOSITORY ARTICLES AND BOOK REVIEWS

44. A. Folsom and A. Kontorovich, *Advice for the campus interview*, **Notices of the American Mathematical Society**, vol. 66, no. 10, November 2019, 1651-1655.
45. A. Folsom, *Asymptotics and Ramanujan’s mock theta functions: then and now*,\* **Philosophical Transactions of the Royal Society A**, 378 no. 2163, (2020). 13 pp.  
\***Note.** *This article is largely expository but does contain one new result.*
46. A. Folsom and S. Payne, *Research with undergraduates*, **Notices of the American Mathematical Society**, vol. 66 no. 2, February 2019, 199-200.
47. A. Folsom, *Symmetry, almost*, **Notices of the American Mathematical Society**, vol. 66 no. 1, January 2019, 87-88.
48. A. Folsom, *Harmonic Maass forms and mock modular forms*, submitted. 8 pp.
49. A. Folsom, *False theta functions and modular forms*, submitted. 7 pp.
50. A. Folsom, *Quantum modular forms*, submitted. 5 pp.
51. A. Folsom, *A Century of Answering the Question: What Is a Mock Theta Function*, submitted. 1 pp.
52. A. Folsom, *Book Review: “My Search For Ramanujan” by K. Ono and A. Aczel*, **Bhavana** vol. 1 iss. 2., April 2017. 5 pp.
53. A. Folsom, *Perspectives on mock modular forms*, **Journal of Number Theory** 176 (2017), pp. 500-540.
54. J. Bruinier, A. Folsom, Z. Kent, and K. Ono, *Recent work on the partition function*, **Ramanujan Mathematical Society Lecture Notes** 20 (2013), eds. B.C. Berndt and D. Prasad, pp. 139–151.
55. A. Folsom, *WHAT IS... a mock modular form?*, **Notices of the American Mathematical Society** 57 iss. 11 (2010), pp. 1441–1443.
56. A. Folsom, *Book Review: The 1-2-3 of modular forms*, by J.H. Bruinier, G. van der Geer, G. Harder, and D. Zagier. **Bulletin of the American Mathematical Society** 46 (2009), pp. 527–533.

#### IV. BOOKS EDITED

57. *Research Directions in Number Theory: Women in Numbers IV*.  
 Editors: J.S. Balakrishnan, A. Folsom, M. Lalin, and M. Manes.  
 Association for Women in Mathematics Series, vol. 19. (Series Editor: K.  
 Lauter.) Springer International Publishing, 2019. xix + 195pp.

#### SELECTED TALKS

1. **MAA Invited Address**, Joint National Meetings, Baltimore Jan. 2019
2. **The Royal Society, London**, Ramanujan Centenary Meeting Oct. 2018
3. **The Legacy of Ramanujan, U. Illinois**, Plenary Speaker June 2019
4. **TORAS University of Oklahoma**, Keynote Speaker Mar. 2015
5. **Yale Science and Engineering Forum**, Plenary Speaker Apr. 2012
6. **PANTS VIII, U. South Carolina**, Plenary Speaker Dec. 2008

#### ADDITIONAL INVITED RESEARCH TALKS

7. **Vanderbilt University**, Seminar (Zoom), Dec. 2020
8. **UCLA**, Seminar (Zoom), Dec. 2020
9. **University of Bristol, UK**, Seminar (Zoom), Dec. 2020
10. **Fairfield University**, Colloquium, Nov. 2019
11. **McGill University**, Colloquium May 2019
12. **University of Pennsylvania**, Seminar April 2019
13. **Bryn Mawr and Haverford Colleges**, Colloquium Feb. 2019
14. **Institute for Advanced Study, Princeton**, Member Seminar Feb. 2019
15. **Rice University**, Colloquium Nov. 2018
16. **Boston University**, Seminar May 2017
17. **Brown University**, Seminar Feb. 2017
18. **Bucknell University**, Distinguished Visitor, Colloquium Apr. 2016
19. **Penn. State University**, Seminar Apr. 2016
20. **Institute for Advanced Study, Princeton**, Member Seminar Feb. 2016
21. **Heidelberg University, Germany**, Colloquium Dec. 2015
22. **Max-Planck-Institut, Bonn, Germany**, Seminar Dec. 2015
23. **TU Darmstadt, Germany**, Seminar Dec. 2015
24. **University College, Dublin**, Seminar Nov. 2015
25. **SUNY Albany**, Colloquium Sept. 2015
26. **University of Cologne, Germany**, Seminar Jun. 2015
27. **Temple University**, Colloquium Apr. 2015
28. **University of Massachusetts, Amherst**, Geometry Seminar Mar. 2015
29. **Tulane University**, Colloquium Jan. 2015
30. **Brandeis-Harvard-MIT-Northeastern**, Joint Colloquium Nov. 2014
31. **Amherst College**, Five College Number Theory Seminar Sept. 2014
32. **Wesleyan University**, Colloquium May 2014
33. **Texas A&M University**, Seminar Apr. 2014
34. **Yale University**, Junior Colloquium Apr. 2014
35. **Johns Hopkins University**, Colloquium Oct./Nov. 2013
36. **Heidelberg University, Germany**, Seminar May 2013
37. **Max-Planck-Institut, Bonn, Germany**, Oberseminar Apr. 2013
38. **Université de Nice, France**, Seminar Apr. 2013
39. **University College Dublin, Ireland**, Seminar Apr. 2013
40. **University of Cologne, Germany**, Seminar Apr. 2013
41. **Brigham Young University**, Colloquium Jan. 2013
42. **University of Wisconsin-Madison**, Colloquium Dec. 2012
43. **University of Illinois, Urbana-Champaign**, Seminar Oct. 2012
44. **Emory University**, Seminar Sept. 2012
45. **Northeastern University**, Seminar Apr. 2012
46. **University of Connecticut, Storrs**, Seminar Apr. 2012
47. **Yale University**, Seminar Feb. 2012
48. **Emory University**, Seminar Dec. 2011
49. **University of Massachusetts, Amherst**, Seminar Nov. 2011
50. **Northwestern University**, Seminar Apr. 2011

	51. <b>Boston College-MIT</b> , Joint Seminar	Feb. 2011
	52. <b>CUNY Graduate Center</b> , Seminar	Dec. 2010
	53. <b>SUNY Stony Brook</b> , Seminar	Dec. 2010
	54. <b>University of Cologne, Germany</b> , Seminar	Nov. 2010
	55. <b>MIT</b> , $\infty$ -dim'l Lie Algebras Seminar	Oct. 2010
	56. <b>Wesleyan University</b> , Colloquium	Oct. 2010
	57. <b>Yale University</b> , Arithmetic Geometry Seminar	Sept. 2010
	58. <b>Yale University</b> , Colloquium	Feb. 2010
	59. <b>University of Pittsburgh</b> , Colloquium	Jan. 2010
	60. <b>University of Texas, Austin</b> , Seminar	Jan. 2010
	61. <b>POSTECH, Pohang, Korea</b> , Seminar	Dec. 2009
	62. <b>Rutgers University</b> , Colloquium	Dec. 2009
	63. <b>Rice University</b> , Colloquium	Nov. 2009
	64. <b>University of Wisconsin-Madison</b> , Seminar	Sept. 2009
	65. <b>University of Wisconsin-Madison</b> , Seminar	Nov. 2008
	66. <b>University College Dublin</b> , Seminar	Feb. 2008
	67. <b>McMaster University, Canada</b> , Arith. Geometry Seminar	Nov. 2007
	68. <b>Stanford University</b> , Seminar	Nov. 2007
	69. <b>University of South Carolina</b> , Seminar	Nov. 2007
	70. <b>University of Illinois, Urbana-Champaign</b> , Seminar	Oct. 2007
	71. <b>University of Wisconsin-Madison</b> , Seminar	Oct. 2007
	72. <b>Amherst College</b> , Five College Number Theory Seminar	May 2007
	73. <b>University of Wisconsin-Madison</b> , Seminar	May 2007
	74. <b>ETH Zurich, Switzerland</b> , Seminar	Dec. 2006
	75. <b>Max-Planck-Institut, Bonn, Germany</b> , Seminar	Sept. 2006
	76. <b>Princeton University</b> , Seminar	May 2006
	77. <b>University of California, Los Angeles</b> , Seminar	Feb. 2006
	78. <b>Boston University</b> , Algebra Seminar	Nov. 2005
	79. <b>University of Wisconsin-Madison</b> , Seminar	Feb. 2005
	80. <b>Harvard University</b> , Graduate Student Seminar	Jul. 2004
CONFERENCE AND WORKSHOP TALKS	81. <del>Algebra and Number Theory LGBTQ<sup>+</sup>, Toronto</del>	June 2021*
	82. <del>Central U. of Himachal Pradesh, India, (Zoom)</del>	Sept. 2020
	83. <del>100 Years of Mock Theta Functions, Vanderbilt</del>	May 2020*
	84. <del>AMS Graduate Conference (Brown)</del> , keynote speaker	April 2020*
	85. <b>AMS-MAA Joint Meetings, Denver</b> , special session	Jan. 2020
	86. <b>Arithmetic, geometry and modular forms</b> , ETH Zurich	Jun. 2019
	87. <b>Hawaii Number Theory Conference (HINT)</b>	Mar. 2019
	88. <b>AMS Western Sectional, U. Hawaii</b> , special session	Mar. 2019
	89. <b>Modularity and 3-manifolds, ICERM (Brown)</b>	Mar. 2019
	90. <b>Connecticut Summer School in Number Theory</b> , UConn	May 2018
	91. <b>Modular Forms and Quantum Knots, BIRS, Banff</b>	Mar. 2018
	92. <b>AMS-MAA Joint Meetings, San Diego</b> special session	Jan. 2018
	93. <b>AMS Eastern Sectional, Hunter College</b> , closing speaker	May 2017
	94. <b>Connecticut Summer School in Number Theory</b> , UConn	Aug. 2016
	95. <b>Gainesville Number Theory Conference</b> , UFlorida	Mar. 2016
	96. <b>Illinois Number Theory Conference</b> , UIUC	Aug. 2015
	97. <b>Assoc. Women in Math. Research Symposium</b> , UMaryland	Apr. 2015
98. <b>AMS-MAA Joint Meetings, San Antonio</b> , special session	Jan. 2015	
99. <b>Southern California Number Theory Day</b> , UC-Irvine	Oct. 2014	
100. <b>AMS Eastern Sectional, Temple University</b> , special session	Oct. 2013	
101. <b>Ramanujan 125</b> , University of Florida	Nov. 2012	
102. <b>University of Illinois Number Theory Conference</b>	Oct. 2012	
103. <b>Building Bridges: EU-US Conf.</b> , Aachen Uni., Germany	Aug. 2012	
104. <b>Krupp Symposium</b> , University of Cologne, Germany	Feb. 2012	
105. <b>AMS-MAA Joint Meetings, Boston</b> , special session	Jan. 2012	
106. <b>Quebec-Maine Number Theory Conference</b>	Oct. 2011	
107. <b>CUNY Conference on Symmetric Groups</b>	Sept. 2011	

108. **AMS Eastern Spring Sectional, Holy Cross**, special session Apr. 2011  
 109. **ICTP Conference on Mock Modular Forms**, Trieste, Italy Mar. 2011  
*\*Event or travel canceled, postponed, or pending, due to Covid-19.*
110. **AMS-MAA Joint Meetings, New Orleans**, special session Jan. 2011  
 111. **AMS-CMS Joint Meeting**, Pucon, Chile Dec. 2010  
 112. **University of Hawaii Workshop on Automorphic Forms** Mar. 2010  
 113. **KMS-AMS Winter Meeting**, Seoul, Korea Dec. 2009  
 114. **Mock  $\vartheta$ -functions and Applications**, MPIM Bonn, Germany May 2009  
 115. **1047th Meeting of the AMS, UIUC** Mar. 2009  
 116. **University of Florida Conference on Quadratic Forms** Mar. 2009  
 117. **University of Hawaii Workshop on Automorphic Forms** May 2008  
 118. **University of Florida Number Theory Conference** Mar. 2008  
 119. **AMS-MAA Joint Meetings, San Diego**, special session Jan. 2008  
 120. **SASTRA-Ramanujan Conference**, Kumbakonam, India Dec. 2007  
 121. **The Fields Institute Workshop** Nov. 2007  
 122. **Heini Halberstam's 80th Birthday Conference**, UIUC May 2007  
 123. **21<sup>st</sup> Automorphic Forms Workshop**, UC-Santa Barbara Mar. 2007  
 124. **Jahrestagung der DMV**, Uni. Bonn, Germany Sept. 2006  
 125. **20<sup>th</sup> Automorphic Forms Workshop**, UC-Boulder Mar. 2006  
 126. **19<sup>th</sup> Automorphic Forms Workshop**, U. North Texas Mar. 2005  
 127. **18<sup>th</sup> Automorphic Forms Workshop**, UC-Santa Barbara Mar. 2004  
 128. **Summer School in Analytic Num. Theory**, Catalina, CA Aug. 2003  
 129. **AMS-MAA Joint Meetings, New Orleans**, undergrad. prize Jan. 2001  
 130. **MAA Regional Meeting**, St. Paul's School, NH Jun. 2000

OTHER  
 CONFERENCES  
 AND MEETINGS

1. ~~Math. Forschungsinstitut Oberwolfach (MFO)~~ Aug/Sep 2020\*  
 2. ~~MAA Mathfest, Philadelphia~~ July 2020\*  
 3. **Simons Foundation, MPS Annual Meeting, NYC** Oct. 2018  
 4. **AMS-MAA Joint Meetings, Atlanta** Jan. 2017  
 5. **MAA Mathfest, Washington D.C.** Aug. 2015  
 6. **AIM SQuaREs Workshop** Jul. 2015  
 7. **REU Mini-Symposium at UConn** Jul. 2015  
 8. **University of Cologne, research visits** 5/2011, 11/2011, 5/2012, 6/2015  
 9. **Automorphic Forms Conf., CIRM Luminy, France** May 2015  
 10. **MAA Mathfest, Portland, OR** Aug. 2014  
 11. **REU Mini-Symposium at Yale** Jul. 2014  
 12. **AMS-MAA Joint Meetings, Baltimore** Jan. 2014  
 13. **Simons Center Workshop: Mock/Moonshine/String** Aug. 2013  
 14. **Mount Holyoke College, New Directions for REUs** Jun. 2013  
 15. **Hypergeometric Series, Institut Henri Poincaré, Paris** May 2012  
 16. **AIM Workshop on Cohen-Lenstra Heuristics** Jun. 2011  
 17. **University College Dublin, research visit** May 2011  
 18. **Emory University Conference on Partitions** Jan. 2011  
 19. **AIM Workshop on Mock Modular Forms** Mar. 2010  
 20. **AMS-MAA Joint National Meetings, San Francisco** Jan. 2010  
 21. **Columbia U., D. Goldfeld's 60th Bday Conference** May 2007  
 22. **Oxford Club NYC: Wiles/Du Sautoy** (guest of F.H. Schott) Apr. 2007  
 23. **Conf. on Modular/Diophantine, MPIM Bonn, Germany** Feb. 2007  
 24. **Universiteit Leiden, Netherlands, Intercity Num. Th.** Sept. 2006  
 25. **Columbia University, Galois Repns./L-fns./Arithmetic** Jun. 2006  
 26. **Princeton/IAS Zeta Functions Women's Program** May 2006  
 27. **AMS-MAA Joint National Meetings, San Antonio** Jan. 2006  
 28. **Southern California Number Theory Day, UC-Irvine** Oct. 2005  
 29. **Gauss-Dirichlet Conference, Göttingen, Germany** Jun. 2005  
 30. **Southern California Number Theory Day, UCSD** May 2005  
 31. **University of Florida, Additive Number Theory** Nov. 2004

*\*Event or travel canceled or postponed due to Covid-19.*

- PH.D. STUDENT · S. Kimport (Yale University, '15), *Quantum modular forms, mock modular forms, and partial theta functions*. First Job: Stanford University, Lecturer
- UNDERGRAD. · Justin Warring (Amherst, '21E), *in-progress*.  
 THESIS · William (Jack) Wesley (Amherst, '18), *Combinatorial Proofs of Ramanujan's*  
 STUDENTS · *Congruences*. Co-recipient, Breusch Prize in Mathematics, Summa Cum Laude.  
 · Yen Nhi Truong Vu (Amherst, '17), *On the Modular Transformations and Asymptotic Behaviors of Mock Modular Forms*. Recipient, Breusch Prize in Mathematics, Summa Cum Laude.  
 · Edward Kim (Amherst, '15), *An Application of the Circle Method in Analytic Number Theory to the Partition Function*. Co-recipient, Breusch Prize in Mathematics, Summa Cum Laude.
- UNDERGRAD. · Summer 2020 (Amherst): E. Pratt '22, N. Solomon '22, A. Tawfeek '21E,  
 RESEARCH in progress.  
 ADVISED · Summer 2018 (Amherst): G. Carroll '20, J. Corbett '19, A. Folsom, and E. Thieu '19, *Universal mock theta functions as quantum Jacobi forms*, Research in the Mathematical Sciences, 6:6 (2019). 15pp.  
 · 2017–18 (Amherst): M. Barnett '18, A. Folsom, and W. Wesley '18, *Rank generating functions for odd-balanced unimodal sequences, quantum Jacobi forms and mock Jacobi forms*, Journal of the Australian Mathematical Society, accepted for publication, (2020). 21 pp.  
 · Summer 2017 (Amherst): M. Barnett '18, A. Folsom, O. Ukogu '18, W. Wesley '18, and H. Xu '18, *Quantum Jacobi forms and balanced unimodal sequences*, Journal of Number Theory 186 (2018), pp. 16-34.  
 · Summer 2015 (Amherst): A. Folsom, C. Ki '17, Y.N. Truong Vu '17, and B. Yang '18, *Strange combinatorial quantum modular forms*, Journal of Number Theory 170 (2017), pp. 315-346.  
 · Summer 2014 (Yale): co-founder/director of math. research program SUMRY with S. Payne, and research project advisor. A. Folsom, Y. Homma '16, J.H. Ryu '16, and B. Tong '17, *On a general class of non-squashing partitions*, Discrete Math, 229 (2016), 25pp.  
 · Summers 2007– 2010 (University of Wisconsin-Madison): NSF REU Instructor, P.I. Ken Ono. Advised/co-advised small groups of undergrads. from various U.S. institutions on original number theory research. 18 student papers submitted.
- OTHER · Women in Numbers 5, Research Project Advisor, BIRS Banff 2020 – present  
 ADVISING · Women in Numbers 4, Research Project Advisor, BIRS Banff 2017 – 2019  
 · Mentor, Association for Women in Math. Mentor Network 2015 – present  
 · Mentor, MAA Project NExT 2017 – present  
 · Course & Research Assistant, Arizona Winter School March 2013
- CONFERENCES · AMS-MAA Joint Meetings, AMS special session, Denver Jan. 2020  
 ORGANIZED · AMS Spring Central/Western Joint Sectional Meeting, U. Hawaii March 2019  
 · AMS-MAA Joint Meetings, MAA special session, Baltimore Jan. 2019  
 · 32nd Automorphic Forms Workshop, Tufts, NSF funded (co-P.I.) March 2018  
 · CTNT Summer School & Research Conference, NSF funded (co-P.I.) Aug. 2016  
 · REU Mini-Symposium at Yale University Jul. 2014  
 · AMS Fall Sectional Meeting, special session, U. Arizona Oct. 2012  
 · AMS-MAA Joint Meetings, special session, AMS Washington D.C. Jan. 2009
- TEACHING · **Amherst College (2014–present)**  
 EXPERIENCE · Math 111: Introduction to the Calculus F14, S15, S17, F17, S18, S20  
 · Math 225: Fractal Geometry F14, F16, F19  
 · Math 281: Combinatorics\*\* F17  
 · Math 310: Introduction to the Theory of Partitions\*\* F16, S21



- Math 350: Groups, Rings and Fields (Abstract Algebra) S15
  - Math 460: Analytic Number Theory\*\* S18, F20
- Yale University (2010–2014)**
- Math 112a: Calculus of Functions of One Variable F11, Su13
  - Math 222a: Linear Algebra with Applications F13
  - Math 290b: Fractal Geometry S12, S14
  - Math 354b: Number Theory S12
  - Math 355b: Geometric Algebra S11
  - Math 632a: Graduate Modular Forms\*\* F10
  - Math 634b: Graduate Harmonic Maas Forms\*\* S14
  - Seminar: Lang Lunch Graduate Teaching Seminar Instructor S12
- University of Wisconsin, Madison (2008–2010)**
- Math 320: Linear Algebra and Diff. Eq. F09, S10
  - Math 421: The Theory of Calculus S09
  - Math 748: Graduate Algebraic Number Theory F08
- University of California, Los Angeles (2002-2004)**
- T.A. for Calculus, Honors Calculus, Diff. Eq., Linear Alg. 2002–04
  - PEERS Calculus for underrepresented minority students 2003–04

*\*\*introduced to the College/University curriculum*

DEPARTMENT  
AND COLLEGE  
SERVICE

**Amherst College**

- Department Chair, Mathematics & Statistics 2019–present
- Faculty Committee on Admission and Financial Aid (FCAFA) 2016–18
- Ad-Hoc Faculty Committee on Athletics 2016–18
- New Student Orientation Advisor Summers 2016, 2017
- Mathematics Comprehensive Exam Co-Organizer/Advisor 2016–18
- Honors Thesis Advisor (4 students) 2014–present
- Mathematics Major Advisor 2014–present
- Chair, CT Valley Mathematics Colloquium Fall 2016
- Secretary, typing of weekly department meeting minutes Spring 2015
- Grader, Mathematics Comprehensive Exam Spring 2015

**Yale University**

- Ph.D. advisor, S. Kimport '15 2011–15
- co-organizer, Number Theory Seminar 2010–14
- Faculty Fellow, Saybrook undergraduate residential college 2012–14
- Academic advisor, Samuel Kim '16 2012–14
- Departmental/University committees member (please ask for details) 2010–14

**University of Wisconsin**

- Committee member, Math. Research Mentoring and Diversity 2008–09
- Mentor/co-organizer, Graduate Student Number Theory Seminar 2008–09
- Grader, Graduate Algebra Qualifying Exam 2010

**UCLA** (*while a graduate student*)

- Graduate student mentor 2002–06
- PEERS program mentor, Zalya Sanchez-Galvan '07 2003–04
- Dept. panelist; topics: fellowships, gender equity, TA training 2004–06

FUNDING  
ADVISORY  
PANELS

- **National Science Foundation**, Grant Panels
- **National Security Agency**, Grant Panels

PUBLIC OR  
STUDENT  
EVENTS AND  
PANELS

- ~~Western New England U.~~, PME undergrad induction speaker, April 2020\*
- ~~AWM/Spectra, JMM Denver~~, queer families in academia panelist Jan. 2020
- ~~College of the Holy Cross~~, PME undergrad. induction speaker May 2017
- ~~Queer Resource Ctr.~~, Amherst Coll., documentary interview Jun. 2015
- ~~Queer Resource Ctr.~~, Amherst Coll., faculty-student panel Apr. 2015
- ~~Women’s & Gender Ctr.~~ Amherst Coll., faculty-student panel Oct. 2014
- ~~Center for Women in Math.~~, Smith Coll., undergrad. lecture Oct. 2014
- ~~Yale Math Club (YUMS)~~, undergraduate lecture Apr. 2014
- ~~Amherst College~~, undergrad lecture Jan. 2014
- ~~Yale University Math Mornings~~, public lecture Nov. 2013
- ~~Center for Women in Math.~~, Smith Coll., undergrad. lecture Nov. 2012
- ~~Emory U.~~, Environmental Sci. 120, undergraduate lecture Oct. 2012
- ~~UConn~~, Preparing Future Faculty, panelist Apr. 2012
- ~~Naugatuck Valley Comm. Coll.~~, Women in Science speaker Mar. 2012
- ~~Yale Math Club (YUMS)~~, undergraduate lecture Sept. 2011
- ~~Tilde Cafe, Branford, CT~~, public lecture/local TV Mar. 2011
- ~~MAA Joint Meetings, New Orleans~~, undergraduate lecture Jan. 2011
- ~~MIT: Women in Mathematics Lectures~~ Oct. 2010
- ~~UW-Madison Math Club~~, undergraduate lecture Apr. 2009
- ~~Amherst College~~, undergraduate lecture Nov. 2005

*\*Event or travel canceled or postponed due to Covid-19.*

PUBLIC SCHOOL  
OUTREACH

- EYE on Mathematics: Edgewood-Yale Educational Outreach** 2012–15  
 Founder of this math enrichment program at the K-8 public Edgewood School in New Haven, CT, in partnership with Principal R. Reynolds, and math teachers C. Piersanti and C. Boynton. Led supplementary-to-classroom creative projects for 5th graders every other week, chosen to emphasize YNI.
- Yale National Initiative (YNI)** Summer 2011  
 YNI is a sustained collaboration between Yale faculty members and public school teachers from across the U.S. Co-led the seminar “Great Ideas in Math.” with R. Howe, and supervised the writing/publishing of teachers’ curriculum units.
- Mathcounts Outreach** 2012–14  
 Faculty advisor to the Yale-New Haven chapter of the national Mathcounts program, which functions to enhance achievement in middle school mathematics.

— last updated September 6, 2020 —