

# AMANDA L. FOLSOM

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| CONTACT INFORMATION                                       | Amherst College<br>Department of Mathematics and Statistics<br>Amherst, MA 01002  | <a href="mailto:afolsom@amherst.edu">afolsom@amherst.edu</a><br><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<br><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 –<br/>Department Chair 2019 –<br/>Associate Professor 2014 – 2019</li><li>• <b>Yale University</b> Associate Professor 2014<br/>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<br><i>(while on sabbatical leaves)</i> | <ul style="list-style-type: none"><li>• <b>Institute for Advanced Study, Princeton</b> Spring 2019, Spring 2016<br/>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>  |   |
| GRANTS AND AWARDS   | <ul style="list-style-type: none"><li>• <b>National Science Foundation Grant (P.I.)</b> 2019 – 2022<br/>DMS-1901791, \$252,174</li><li>• <b>Simons Fellow in Mathematics</b>, Simons Foundation 2018 – 2019<br/>ID 561663, \$112,155</li><li>• <b>Prose Award, Association of American Publishers</b> 2018<br/>Best Scholarly Book in Mathematics</li><li>• <b>National Science Foundation CAREER Grant (P.I.)</b> 2013 – 2019<br/>DMS-1449679 and DMS-1252815, \$437,000</li><li>• <b>Institute for Advanced Study, Princeton</b> Spring 2019, Spring 2016<br/>von Neumann Fellowship and Member</li><li>• <b>National Science Foundation Conference Grants (co-P.I.)</b><br/>DMS-1608789, \$25,000 (CT Summer School in Number Theory) 2016<br/>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<br/>DMS-1049553, \$75,875</li><li>• <b>National Science Foundation Postdoctoral Fellowship (P.I.)</b> 2007 – 2010<br/>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></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
- **Proceedings Editor**, Women in Numbers 4, Springer 2017 – present
- **MAA Committee on Invited Paper Sessions**,  
Mathematical Association of America 2020 – present

PUBLICATIONS

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

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

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**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, *Twisted Eisenstein series, cotangent-zeta sums, and quantum modular forms*, submitted for publication. 17 pp.
3. A. Folsom, *Quantum Jacobi forms in number theory, topology, and mathematical physics*, **Research in the Mathematical Sciences**, accepted for publication. 32 pp.
4. A. Folsom, M-J Jang, S. Kimport, and H. Swisher, *Quantum modular forms and singular combinatorial series with repeated roots of unity*, submitted for publication. 24 pp.
5. 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.
6. 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. 21 pp.
7. 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**, accepted for publication. 18 pp.
8. 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.
9. 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.
10. K. Bringmann and A. Folsom, *Quantum Jacobi forms and finite evaluations of unimodal rank generating functions*, **Archiv der Mathematik** 107 (2016), pp. 367–378.
11. 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.
12. A. Folsom, *Mock and mixed mock modular forms in the lower half-plane*, **Archiv der Mathematik** 107 (2016), pp. 487–498.
13. A. Folsom and P. Jenkins, *Zeros of modular forms of half integral weight*, **Research in Number Theory** 2:23 (2016), 25pp.
14. 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.

15. 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.
16. K. Bringmann, A. Folsom, and K. Mahlburg, *Quasimodular forms and  $sl(m|m)^\wedge$  characters*, **Ramanujan Journal** 36 (2015), pp. 103–116.
17. 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.
18. 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.
19. 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.
20. 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.
21. A. Folsom, *Mock modular forms and  $d$ -distinct partitions*, **Advances in Mathematics** 254 (2014), pp. 682–705.
22. 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).
23. K. Bringmann and A. Folsom, *On a conjecture of B. Berndt and B. Kim*, **Ramanujan Journal** 32 (2013), pp. 1–4.
24. 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.
25. A. Folsom and S. Kimport, *Mock modular forms and singular combinatorial series*, **Acta Arithmetica** 159.3 (2013), pp. 257–297.
26. A. Folsom, K. Ono, and R.C. Rhoades, *Mock theta functions and quantum modular forms*, **Forum of Mathematics Pi** 1 (2013), pp. 1–27.
27. 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.
28. 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.
29. A. Folsom, Z. Kent, and K. Ono,  *$\ell$ -adic properties of the partition function*, **Advances in Mathematics** 229 (2012), pp. 1586–1609.
30. A. Folsom, *Kac-Wakimoto characters and universal mock theta functions*, **Transactions of the American Mathematical Society** 363 no. 1 (2011), pp. 439–455.
31. A. Folsom and R. Masri, *The asymptotic distribution of traces of Maass-Poincaré series*, **Advances in Mathematics** 226 (2011), pp. 3724–3759.
32. A. Folsom, *Modular units and the  $q$ -difference equations of Selberg*, **Mathematical Research Letters** (17) no. 2 (2010), pp. 283–299.
33. A. Folsom, *Modularity and the distinct rank function*, **Ramanujan Journal** 23 (2010), pp. 183–193.
34. A. Folsom and R. Masri, *Equidistribution of Heegner points and the partition function*, **Mathematische Annalen** 348 no. 2 (2010), pp. 289–317.
35. K. Bringmann, A. Folsom, and K. Ono,  *$q$ -series and weight  $3/2$  Maass forms*, **Compositio Mathematica** 145 (2009), pp. 541–552.

36. A. Folsom, *A characterization of the modular units*, **International Journal of Number Theory** (5) no. 2 (2009), pp. 303–310.
37. A. Folsom, *A short proof of the mock theta conjectures using Maass forms*, **Proceedings of the American Mathematical Society** 136 (2008), pp. 4143–4149.
38. 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.
39. 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.
40. 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.
41. A. Folsom, *Modular forms and Eisenstein’s continued fractions*, **Journal of Number Theory** 117 (2006), pp. 279–291.
42. 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

43. A. Folsom and A. Kontorovich, *Advice for the campus interview*, **Notices of the American Mathematical Society**, solicited/submitted for publication. 5 pp.
44. A. Folsom, *Asymptotics and Ramanujan’s mock theta functions: then and now*,\* **Philosophical Transactions of the Royal Society A**, accepted for publication. 13 pp.  
\**Note.* This article is largely expository but does contain one new result.
45. A. Folsom and S. Payne, *Research with undergraduates*, **Notices of the American Mathematical Society**, vol. 66 no. 2, February 2019, 199–200.
46. A. Folsom, *Symmetry, almost*, **Notices of the American Mathematical Society**, vol. 66 no. 1, January 2019, 87–88.
47. A. Folsom, *Harmonic Maass forms and mock modular forms*, submitted. 8 pp.
48. A. Folsom, *False theta functions and modular forms*, submitted. 7 pp.
49. A. Folsom, *Quantum modular forms*, submitted. 5 pp.
50. A. Folsom, *A Century of Answering the Question: What Is a Mock Theta Function*, submitted. 1 pp.
51. A. Folsom, *Book Review: “My Search For Ramanujan” by K. Ono and A. Aczel*, **Bhavana** vol. 1 iss. 2., April 2017. 5 pp.
52. A. Folsom, *Perspectives on mock modular forms*, **Journal of Number Theory** 176 (2017), pp. 500–540.
53. 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.
54. A. Folsom, *WHAT IS... a mock modular form?*, **Notices of the American Mathematical Society** 57 iss. 11 (2010), pp. 1441–1443.
55. 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.

SELECTED TALKS

ADDITIONAL  
INVITED  
RESEARCH  
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
7. **McGill University**, Colloquium May 2019
8. **University of Pennsylvania**, Seminar April 2019
9. **Bryn Mawr and Haverford Colleges**, Colloquium Feb. 2019
10. **Institute for Advanced Study, Princeton**, Member Seminar Feb. 2019
11. **Rice University**, Colloquium Nov. 2018
12. **Boston University**, Seminar May 2017
13. **Brown University**, Seminar Feb. 2017
14. **Bucknell University**, Distinguished Visitor, Colloquium Apr. 2016
15. **Penn. State University**, Seminar Apr. 2016
16. **Institute for Advanced Study, Princeton**, Member Seminar Feb. 2016
17. **Heidelberg University, Germany**, Colloquium Dec. 2015
18. **Max-Planck-Institut, Bonn, Germany**, Seminar Dec. 2015
19. **TU Darmstadt, Germany**, Seminar Dec. 2015
20. **University College, Dublin**, Seminar Nov. 2015
21. **SUNY Albany**, Colloquium Sept. 2015
22. **University of Cologne, Germany**, Seminar Jun. 2015
23. **Temple University**, Colloquium Apr. 2015
24. **University of Massachusetts, Amherst**, Geometry Seminar Mar. 2015
25. **Tulane University**, Colloquium Jan. 2015
26. **Brandeis-Harvard-MIT-Northeastern**, Joint Colloquium Nov. 2014
27. **Amherst College**, Five College Number Theory Seminar Sept. 2014
28. **Wesleyan University**, Colloquium May 2014
29. **Texas A&M University**, Seminar Apr. 2014
30. **Yale University**, Junior Colloquium Apr. 2014
31. **Johns Hopkins University**, Colloquium Oct./Nov. 2013
32. **Heidelberg University, Germany**, Seminar May 2013
33. **Max-Planck-Institut, Bonn, Germany**, Oberseminar Apr. 2013
34. **Université de Nice, France**, Seminar Apr. 2013
35. **University College Dublin, Ireland**, Seminar Apr. 2013
36. **University of Cologne, Germany**, Seminar Apr. 2013
37. **Brigham Young University**, Colloquium Jan. 2013
38. **University of Wisconsin-Madison**, Colloquium Dec. 2012
39. **University of Illinois, Urbana-Champaign**, Seminar Oct. 2012
40. **Emory University**, Seminar Sept. 2012
41. **Northeastern University**, Seminar Apr. 2012
42. **University of Connecticut, Storrs**, Seminar Apr. 2012
43. **Yale University**, Seminar Feb. 2012
44. **Emory University**, Seminar Dec. 2011
45. **University of Massachusetts, Amherst**, Seminar Nov. 2011
46. **Northwestern University**, Seminar Apr. 2011
47. **Boston College-MIT**, Joint Seminar Feb. 2011
48. **CUNY Graduate Center**, Seminar Dec. 2010
49. **SUNY Stony Brook**, Seminar Dec. 2010
50. **University of Cologne, Germany**, Seminar Nov. 2010
51. **MIT**,  $\infty$ -dim'l Lie Algebras Seminar Oct. 2010
52. **Wesleyan University**, Colloquium Oct. 2010
53. **Yale University**, Arithmetic Geometry Seminar Sept. 2010
54. **Yale University**, Colloquium Feb. 2010
55. **University of Pittsburgh**, Colloquium Jan. 2010
56. **University of Texas, Austin**, Seminar Jan. 2010
57. **POSTECH, Pohang, Korea**, Seminar Dec. 2009

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| 58. Rutgers University, Colloquium                       | Dec. 2009  |
| 59. Rice University, Colloquium                          | Nov. 2009  |
| 60. University of Wisconsin-Madison, Seminar             | Sept. 2009 |
| 61. University of Wisconsin-Madison, Seminar             | Nov. 2008  |
| 62. University College Dublin, Seminar                   | Feb. 2008  |
| 63. McMaster University, Canada, Arith. Geometry Seminar | Nov. 2007  |
| 64. Stanford University, Seminar                         | Nov. 2007  |
| 65. University of South Carolina, Seminar                | Nov. 2007  |
| 66. University of Illinois, Urbana-Champaign, Seminar    | Oct. 2007  |
| 67. University of Wisconsin-Madison, Seminar             | Oct. 2007  |
| 68. Amherst College, Five College Number Theory Seminar  | May 2007   |
| 69. University of Wisconsin-Madison, Seminar             | May 2007   |
| 70. ETH Zurich, Switzerland, Seminar                     | Dec. 2006  |
| 71. Max-Planck-Institut, Bonn, Germany, Seminar          | Sept. 2006 |
| 72. Princeton University, Seminar                        | May 2006   |
| 73. University of California, Los Angeles, Seminar       | Feb. 2006  |
| 74. Boston University, Algebra Seminar                   | Nov. 2005  |
| 75. University of Wisconsin-Madison, Seminar             | Feb. 2005  |
| 76. Harvard University, Graduate Student Seminar         | Jul. 2004  |

CONFERENCE  
AND  
WORKSHOP  
TALKS

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|---|------------|
| 77. AMS-MAA Joint Meetings, Denver special session                    | Jan. 2020  |
| 78. Arithmetic, geometry and modular forms, ETH Zurich                | Jun. 2019  |
| 79. Hawaii Number Theory Conference (HINT)                            | Mar. 2019  |
| 80. AMS Western Sectional, U. Hawaii, special session                 | Mar. 2019  |
| 81. Modularity and 3-manifolds, ICERM (Brown)                         | Mar. 2019  |
| 82. Connecticut Summer School in Number Theory, UConn                 | May 2018   |
| 83. Modular Forms and Quantum Knots, BIRS, Banff                      | Mar. 2018  |
| 84. AMS-MAA Joint Meetings, San Diego special session                 | Jan. 2018  |
| 85. AMS Eastern Sectional, Hunter College, closing speaker            | May 2017   |
| 86. Connecticut Summer School in Number Theory, UConn                 | Aug. 2016  |
| 87. Gainesville Number Theory Conference, UFlorida                    | Mar. 2016  |
| 88. Illinois Number Theory Conference, UIUC                           | Aug. 2015  |
| 89. Assoc. Women in Math. Research Symposium, UMaryland               | Apr. 2015  |
| 90. AMS-MAA Joint Meetings, San Antonio, special session              | Jan. 2015  |
| 91. Southern California Number Theory Day, UC-Irvine                  | Oct. 2014  |
| 92. AMS Eastern Sectional, Temple University, special session         | Oct. 2013  |
| 93. Ramanujan 125, University of Florida                              | Nov. 2012  |
| 94. University of Illinois Number Theory Conference                   | Oct. 2012  |
| 95. Building Bridges: EU-US Conf., Aachen Uni., Germany               | Aug. 2012  |
| 96. Krupp Symposium, University of Cologne, Germany                   | Feb. 2012  |
| 97. AMS-MAA Joint Meetings, Boston, special session                   | Jan. 2012  |
| 98. Quebec-Maine Number Theory Conference                             | Oct. 2011  |
| 99. CUNY Conference on Symmetric Groups                               | Sept. 2011 |
| 100. AMS Eastern Spring Sectional, Holy Cross, special session        | Apr. 2011  |
| 101. ICTP Conference on Mock Modular Forms, Trieste, Italy            | Mar. 2011  |
| 102. AMS-MAA Joint Meetings, New Orleans, special session             | Jan. 2011  |
| 103. AMS-CMS Joint Meeting, Pucon, Chile                              | Dec. 2010  |
| 104. University of Hawaii Workshop on Automorphic Forms               | Mar. 2010  |
| 105. KMS-AMS Winter Meeting, Seoul, Korea                             | Dec. 2009  |
| 106. Mock $\vartheta$ -functions and Applications, MPIM Bonn, Germany | May 2009   |
| 107. 1047th Meeting of the AMS, UIUC                                  | Mar. 2009  |
| 108. University of Florida Conference on Quadratic Forms              | Mar. 2009  |
| 109. University of Hawaii Workshop on Automorphic Forms               | May 2008   |
| 110. University of Florida Number Theory Conference                   | Mar. 2008  |
| 111. AMS-MAA Joint Meetings, San Diego, special session               | Jan. 2008  |
| 112. SASTRA-Ramanujan Conference, Kumbakonam, India                   | Dec. 2007  |
| 113. The Fields Institute Workshop                                    | Nov. 2007  |
| 114. Heini Halberstam's 80th Birthday Conference, UIUC                | May 2007   |

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| 115. | <b>21<sup>st</sup> Automorphic Forms Workshop</b> , UC-Santa Barbara | Mar. 2007  |
| 116. | <b>Jahrestagung der DMV</b> , Uni. Bonn, Germany                     | Sept. 2006 |
| 117. | <b>20<sup>th</sup> Automorphic Forms Workshop</b> , UC-Boulder       | Mar. 2006  |
| 118. | <b>19<sup>th</sup> Automorphic Forms Workshop</b> , U. North Texas   | Mar. 2005  |
| 119. | <b>18<sup>th</sup> Automorphic Forms Workshop</b> , UC-Santa Barbara | Mar. 2004  |
| 120. | <b>Summer School in Analytic Num. Theory</b> , Catalina, CA          | Aug. 2003  |
| 121. | <b>AMS-MAA Joint Meetings, New Orleans</b> , undergrad. prize        | Jan. 2001  |
| 122. | <b>MAA Regional Meeting</b> , St. Paul's School, NH                  | Jun. 2000  |

OTHER  
CONFERENCES  
AND MEETINGS

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

PH.D. STUDENT · S. Kimport (Yale University, '15), *Quantum modular forms, mock modular forms, and partial theta functions*. First Job: Stanford University, Lecturer

UNDERGRAD. THESIS STUDENTS · Justin Warring (Amherst, '20), *in-progress*.  
· William (Jack) Wesley (Amherst, '18), *Combinatorial Proofs of Ramanujan's 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. RESEARCH ADVISED
- Summer 2018 (Amherst): G. Carroll '19, J. Corbett '19, A. Folsom, and E. Thieu '19, *Universal mock theta functions as quantum Jacobi forms*, Research in the Mathematical Sciences, accepted for publication. 15 pp.
  - 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*, submitted for publication. 16 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 ADVISING
- Women in Numbers 4, Research Project Advisor, BIRS Banff Aug. 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 ORGANIZED
- AMS-MAA Joint Meetings, AMS special session, Denver Jan. 2020
  - 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 EXPERIENCE
- Amherst College (2014–present)**
- Math 111: Introduction to the Calculus F14, S15, S17, F17, S18
  - Math 225: Fractal Geometry F14, F16, F19
  - Math 281: Combinatorics\* F17
  - Math 310: Introduction to the Theory of Partitions\* F16
  - Math 350: Groups, Rings and Fields (Abstract Algebra) S15
  - Math 460: Analytic Number Theory\* S18
- 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 (3 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 in Algebra 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

- **AWM/Spectra, JMM Denver**, queer families in academia panelist Jan. 2020
- **College of the Holy Cross**, PME undergrad. colloquium 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

PUBLIC SCHOOL **EYE on Mathematics: Edgewood-Yale Educational Outreach** 2012–15  
OUTREACH  
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 August 12, 2019* —