

AMANDA L. FOLSOM

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

EDITORIAL BOARDS & PROFESSIONAL COMMITTEES	• Proceedings of the Amer. Math. Soc. (AMS)	
	- Coordinating Editor in Algebra, Number Theory, and Logic	2021 – present
	- Editorial Board Member	2018 – present
	• Mathematical Association of America (MAA)	
	- Committee on Invited Paper Sessions	2020 – present
	• La Matematica, Assoc. for Women in Math. (Springer)	
	- Editorial Board Member	2021 – present
	• Journal of Number Theory (Elsevier)	
	- Associate Editor	2017 – present
	• Research in Number Theory (Springer)	
	- Editorial Board Member	2014 – present
	• Ramanujan Journal (Springer)	
	- Editorial Board Member	2021 – present
• Involve (MSP)		
- Editorial Board Member	2021 – present	
• Essential Number Theory (MSP)		
- Editorial Board Member	2021 – present	
• Research Directions in Number Thy., Women in Numbers 4		
- Co-Editor (Springer-AWM book volume)	2017 – 2019	

PUBLICATIONS

57 total publications. Publications are available at:

<https://afolsom.people.amherst.edu/Publications.html>

I. BOOK

1. K. Bringmann, A. Folsom, K. Ono, and L. Rolén, *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, E. Pratt, N. Solomon, and A.R. Tawfeek, *Quantum Jacobi forms and sums of tails identities*, submitted for publication, (2020). 25pp.
3. A. Folsom, *Asymptotic expansions, partial theta functions, and radial limit differences of mock modular and modular forms*, **International Journal of Number Theory**, accepted for publication, (2020). 10 pp.
4. A. Folsom, *Twisted Eisenstein series, cotangent-zeta sums, and quantum modular forms*, **Transactions of the London Mathematical Society**, **7(1)** (2020), pp. 33–48.
5. 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.
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, (2020). 21 pp.
7. A. Folsom, *Quantum Jacobi forms in number theory, topology, and mathematical physics*, **Research in the Mathematical Sciences**, **6:25** (2019). 34pp.
8. 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.
9. 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.

10. 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.
11. 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.
12. 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.
13. K. Bringmann and A. Folsom, *Quantum Jacobi forms and finite evaluations of unimodal rank generating functions*, **Archiv der Mathematik** 107 (2016), pp. 367–378.
14. 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.
15. A. Folsom, *Mock and mixed mock modular forms in the lower half-plane*, **Archiv der Mathematik** 107 (2016), pp. 487–498.
16. A. Folsom and P. Jenkins, *Zeros of modular forms of half integral weight*, **Research in Number Theory** 2:23 (2016), 25pp.
17. 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.
18. K. Bringmann, A. Folsom, and K. Mahlburg, *Quasimodular forms and $sl(m|m)^\wedge$ characters*, **Ramanujan Journal** 36 (2015), pp. 103–116.
19. 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.
20. 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.
21. 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.
22. 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.
23. A. Folsom, *Mock modular forms and d -distinct partitions*, **Advances in Mathematics** 254 (2014), pp. 682–705.
24. 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).
25. K. Bringmann and A. Folsom, *On a conjecture of B. Berndt and B. Kim*, **Ramanujan Journal** 32 (2013), pp. 1–4.
26. 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.
27. A. Folsom and S. Kimport, *Mock modular forms and singular combinatorial series*, **Acta Arithmetica** 159.3 (2013), pp. 257–297.
28. A. Folsom, K. Ono, and R.C. Rhoades, *Mock theta functions and quantum modular forms*, **Forum of Mathematics Pi** 1 (2013), pp. 1–27.
29. 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.

30. 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.
31. A. Folsom, Z. Kent, and K. Ono, *ℓ -adic properties of the partition function*, **Advances in Mathematics** 229 (2012), pp. 1586–1609.
32. A. Folsom, *Kac-Wakimoto characters and universal mock theta functions*, **Transactions of the American Mathematical Society** 363 no. 1 (2011), pp. 439–455.
33. A. Folsom and R. Masri, *The asymptotic distribution of traces of Maass-Poincaré series*, **Advances in Mathematics** 226 (2011), pp. 3724–3759.
34. A. Folsom, *Modular units and the q -difference equations of Selberg*, **Mathematical Research Letters** (17) no. 2 (2010), pp. 283–299.
35. A. Folsom, *Modularity and the distinct rank function*, **Ramanujan Journal** 23 (2010), pp. 183–193.
36. A. Folsom and R. Masri, *Equidistribution of Heegner points and the partition function*, **Mathematische Annalen** 348 no. 2 (2010), pp. 289–317.
37. K. Bringmann, A. Folsom, and K. Ono, *q -series and weight $3/2$ Maass forms*, **Compositio Mathematica** 145 (2009), pp. 541–552.
38. A. Folsom, *A characterization of the modular units*, **International Journal of Number Theory** (5) no. 2 (2009), pp. 303–310.
39. A. Folsom, *A short proof of the mock theta conjectures using Maass forms*, **Proceedings of the American Mathematical Society** 136 (2008), pp. 4143–4149.
40. 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.
41. 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.
42. 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.
43. A. Folsom, *Modular forms and Eisenstein’s continued fractions*, **Journal of Number Theory** 117 (2006), pp. 279–291.
44. 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

45. A. Folsom and A. Kontorovich, *Advice for the campus interview*, **Notices of the American Mathematical Society**, vol. 66, no. 10, November 2019, 1651-1655.
46. 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.*
47. A. Folsom and S. Payne, *Research with undergraduates*, **Notices of the American Mathematical Society**, vol. 66 no. 2, February 2019, 199-200.
48. A. Folsom, *Symmetry, almost*, **Notices of the American Mathematical Society**, vol. 66 no. 1, January 2019, 87-88.
49. A. Folsom, *Harmonic Maass forms and mock modular forms*, submitted. 8 pp.
50. A. Folsom, *False theta functions and modular forms*, submitted. 7 pp.
51. A. Folsom, *Quantum modular forms*, submitted. 5 pp.

52. A. Folsom, *A Century of Answering the Question: What Is a Mock Theta Function*, submitted. 1 pp.
53. A. Folsom, *Book Review: "My Search For Ramanujan" by K. Ono and A. Aczel*, **Bhavana** vol. 1 iss. 2., April 2017. 5 pp.
54. A. Folsom, *Perspectives on mock modular forms*, **Journal of Number Theory** 176 (2017), pp. 500-540.
55. 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.
56. A. Folsom, *WHAT IS... a mock modular form?*, **Notices of the American Mathematical Society** 57 iss. 11 (2010), pp. 1441–1443.
57. 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

58. *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. **TU-Darmstadt, Germany**, Seminar (Zoom) Apr. 2021
8. **City College of New York**, Colloquium (Zoom) Apr. 2021
9. **Vanderbilt University**, Seminar (Zoom) Dec. 2020
10. **UCLA**, Seminar (Zoom) Dec. 2020
11. **University of Bristol, UK**, Seminar (Zoom) Dec. 2020
12. **St. Petersburg State University, Russia**, Seminar (Zoom) Dec. 2020
13. **Fairfield University**, Colloquium Nov. 2019
14. **McGill University**, Colloquium May 2019
15. **University of Pennsylvania**, Seminar April 2019
16. **Bryn Mawr and Haverford Colleges**, Colloquium Feb. 2019
17. **Institute for Advanced Study, Princeton**, Member Seminar Feb. 2019
18. **Rice University**, Colloquium Nov. 2018
19. **Boston University**, Seminar May 2017
20. **Brown University**, Seminar Feb. 2017
21. **Bucknell University**, Distinguished Visitor, Colloquium Apr. 2016
22. **Penn. State University**, Seminar Apr. 2016
23. **Institute for Advanced Study, Princeton**, Member Seminar Feb. 2016
24. **Heidelberg University, Germany**, Colloquium Dec. 2015
25. **Max-Planck-Institut, Bonn, Germany**, Seminar Dec. 2015
26. **TU Darmstadt, Germany**, Seminar Dec. 2015
27. **University College, Dublin**, Seminar Nov. 2015
28. **SUNY Albany**, Colloquium Sept. 2015
29. **University of Cologne, Germany**, Seminar Jun. 2015
30. **Temple University**, Colloquium Apr. 2015
31. **University of Massachusetts, Amherst**, Geometry Seminar Mar. 2015
32. **Tulane University**, Colloquium Jan. 2015
33. **Brandeis-Harvard-MIT-Northeastern**, Joint Colloquium Nov. 2014
34. **Amherst College**, Five College Number Theory Seminar Sept. 2014

35. Wesleyan University, Colloquium	May 2014
36. Texas A&M University, Seminar	Apr. 2014
37. Yale University, Junior Colloquium	Apr. 2014
38. Johns Hopkins University, Colloquium	Oct./Nov. 2013
39. Heidelberg University, Germany, Seminar	May 2013
40. Max-Planck-Institut, Bonn, Germany, Oberseminar	Apr. 2013
41. Université de Nice, France, Seminar	Apr. 2013
42. University College Dublin, Ireland, Seminar	Apr. 2013
43. University of Cologne, Germany, Seminar	Apr. 2013
44. Brigham Young University, Colloquium	Jan. 2013
45. University of Wisconsin-Madison, Colloquium	Dec. 2012
46. University of Illinois, Urbana-Champaign, Seminar	Oct. 2012
47. Emory University, Seminar	Sept. 2012
48. Northeastern University, Seminar	Apr. 2012
49. University of Connecticut, Storrs, Seminar	Apr. 2012
50. Yale University, Seminar	Feb. 2012
51. Emory University, Seminar	Dec. 2011
52. University of Massachusetts, Amherst, Seminar	Nov. 2011
53. Northwestern University, Seminar	Apr. 2011
54. Boston College-MIT, Joint Seminar	Feb. 2011
55. CUNY Graduate Center, Seminar	Dec. 2010
56. SUNY Stony Brook, Seminar	Dec. 2010
57. University of Cologne, Germany, Seminar	Nov. 2010
58. MIT, ∞ -dim'l Lie Algebras Seminar	Oct. 2010
59. Wesleyan University, Colloquium	Oct. 2010
60. Yale University, Arithmetic Geometry Seminar	Sept. 2010
61. Yale University, Colloquium	Feb. 2010
62. University of Pittsburgh, Colloquium	Jan. 2010
63. University of Texas, Austin, Seminar	Jan. 2010
64. POSTECH, Pohang, Korea, Seminar	Dec. 2009
65. Rutgers University, Colloquium	Dec. 2009
66. Rice University, Colloquium	Nov. 2009
67. University of Wisconsin-Madison, Seminar	Sept. 2009
68. University of Wisconsin-Madison, Seminar	Nov. 2008
69. University College Dublin, Seminar	Feb. 2008
70. McMaster University, Canada, Arith. Geometry Seminar	Nov. 2007
71. Stanford University, Seminar	Nov. 2007
72. University of South Carolina, Seminar	Nov. 2007
73. University of Illinois, Urbana-Champaign, Seminar	Oct. 2007
74. University of Wisconsin-Madison, Seminar	Oct. 2007
75. Amherst College, Five College Number Theory Seminar	May 2007
76. University of Wisconsin-Madison, Seminar	May 2007
77. ETH Zurich, Switzerland, Seminar	Dec. 2006
78. Max-Planck-Institut, Bonn, Germany, Seminar	Sept. 2006
79. Princeton University, Seminar	May 2006
80. University of California, Los Angeles, Seminar	Feb. 2006
81. Boston University, Algebra Seminar	Nov. 2005
82. University of Wisconsin-Madison, Seminar	Feb. 2005
83. Harvard University, Graduate Student Seminar	Jul. 2004

CONFERENCE
AND
WORKSHOP
TALKS

84. **Spec(\overline{Q})**, Fields Institute, Toronto June 2022
85. **Joint Math. Meetings, Seattle**, special sessions (3 talks) Jan. 2022
86. **LGBTQ+ Math Day**, Fields Institute, keynote speaker Nov. 2021
87. **Subbarao Centenary Symposium**, IISER, India (virtual) July 2021
88. **New Conn. Num. Thy./Phys.**, INI Cambridge, UK (Zoom) May 2021
89. **KITP Modularity in Quantum Systems**, (Zoom) Oct. 2020
90. **Central U. of Himachal Pradesh, India**, (Zoom) Sept. 2020
91. ~~100 Years of Mock Theta Functions, Vanderbilt~~ May 2020*
92. ~~AMS Graduate Conference (Brown)~~, keynote speaker April 2020*
93. **AMS-MAA Joint Meetings, Denver**, special session Jan. 2020
94. **Arithmetic, geometry and modular forms**, ETH Zurich Jun. 2019
95. **Hawaii Number Theory Conference (HINT)** Mar. 2019
96. **AMS Western Sectional, U. Hawaii**, special session Mar. 2019
97. **Modularity and 3-manifolds, ICERM (Brown)** Mar. 2019
98. **Connecticut Summer School in Number Theory**, UConn May 2018
99. **Modular Forms and Quantum Knots, BIRS, Banff** Mar. 2018
100. **AMS-MAA Joint Meetings, San Diego** special session Jan. 2018
101. **AMS Eastern Sectional, Hunter College**, closing speaker May 2017
102. **Connecticut Summer School in Number Theory**, UConn Aug. 2016
103. **Gainesville Number Theory Conference**, UFlorida Mar. 2016
104. **Illinois Number Theory Conference**, UIUC Aug. 2015
105. **Assoc. Women in Math. Research Symposium**, UMaryland Apr. 2015
106. **AMS-MAA Joint Meetings, San Antonio**, special session Jan. 2015
107. **Southern California Number Theory Day**, UC-Irvine Oct. 2014
108. **AMS Eastern Sectional, Temple University**, special session Oct. 2013
109. **Ramanujan 125**, University of Florida Nov. 2012
110. **University of Illinois Number Theory Conference** Oct. 2012
111. **Building Bridges: EU-US Conf.**, Aachen Uni., Germany Aug. 2012
112. **Krupp Symposium**, University of Cologne, Germany Feb. 2012
113. **AMS-MAA Joint Meetings, Boston**, special session Jan. 2012
114. **Quebec-Maine Number Theory Conference** Oct. 2011
115. **CUNY Conference on Symmetric Groups** Sept. 2011
116. **AMS Eastern Spring Sectional, Holy Cross**, special session Apr. 2011
117. **ICTP Conference on Mock Modular Forms**, Trieste, Italy Mar. 2011
118. **AMS-MAA Joint Meetings, New Orleans**, special session Jan. 2011
119. **AMS-CMS Joint Meeting**, Pucon, Chile Dec. 2010
120. **University of Hawaii Workshop on Automorphic Forms** Mar. 2010
121. **KMS-AMS Winter Meeting**, Seoul, Korea Dec. 2009
122. **Mock θ -functions and Applications**, MPIM Bonn, Germany May 2009
123. **1047th Meeting of the AMS**, UIUC Mar. 2009
124. **University of Florida Conference on Quadratic Forms** Mar. 2009
125. **University of Hawaii Workshop on Automorphic Forms** May 2008
126. **University of Florida Number Theory Conference** Mar. 2008
127. **AMS-MAA Joint Meetings, San Diego**, special session Jan. 2008
128. **SASTRA-Ramanujan Conference**, Kumbakonam, India Dec. 2007
129. **The Fields Institute Workshop** Nov. 2007
130. **Heini Halberstam's 80th Birthday Conference**, UIUC May 2007
131. **21st Automorphic Forms Workshop**, UC-Santa Barbara Mar. 2007
132. **Jahrestagung der DMV**, Uni. Bonn, Germany Sept. 2006
133. **20th Automorphic Forms Workshop**, UC-Boulder Mar. 2006
134. **19th Automorphic Forms Workshop**, U. North Texas Mar. 2005
135. **18th Automorphic Forms Workshop**, UC-Santa Barbara Mar. 2004
136. **Summer School in Analytic Num. Theory**, Catalina, CA Aug. 2003
137. **AMS-MAA Joint Meetings, New Orleans**, undergrad. prize Jan. 2001
138. **MAA Regional Meeting**, St. Paul's School, NH Jun. 2000

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

OTHER
CONFERENCES
AND MEETINGS

1. **MAA Mathfest** (virtual program) August 2021
2. **QTMC 2021**, Fields Institute (virtual) June 2021
3. **AMS-MAA Joint Meetings** (virtual program) January 2021
4. **REU Mini-Symposium at UConn** (Zoom) Jul. 2020
5. ~~Math-Forschungsinstitut Oberwolfach (MFO)~~ Aug/Sep 2020*
6. ~~MAA Mathfest, Philadelphia~~ July 2020*
7. **Simons Foundation, MPS Annual Meeting, NYC** Oct. 2018
8. **AMS-MAA Joint Meetings, Atlanta** Jan. 2017
9. **MAA Mathfest, Washington D.C.** Aug. 2015
10. **AIM SQuaREs Workshop** Jul. 2015
11. **REU Mini-Symposium at UConn** Jul. 2015
12. **University of Cologne, research visits** 5/2011, 11/2011, 5/2012, 6/2015
13. **Automorphic Forms Conf., CIRM Luminy, France** May 2015
14. **MAA Mathfest, Portland, OR** Aug. 2014
15. **REU Mini-Symposium at Yale** Jul. 2014
16. **AMS-MAA Joint Meetings, Baltimore** Jan. 2014
17. **Simons Center Workshop: Mock/Moonshine/String** Aug. 2013
18. **Mount Holyoke College, New Directions for REUs** Jun. 2013
19. **Hypergeometric Series, Institut Henri Poincaré, Paris** May 2012
20. **AIM Workshop on Cohen-Lenstra Heuristics** Jun. 2011
21. **University College Dublin, research visit** May 2011
22. **Emory University Conference on Partitions** Jan. 2011
23. **AIM Workshop on Mock Modular Forms** Mar. 2010
24. **AMS-MAA Joint National Meetings, San Francisco** Jan. 2010
25. **Columbia U., D. Goldfeld's 60th Bday Conference** May 2007
26. **Oxford Club NYC: Wiles/Du Sautoy** (guest of F.H. Schott) Apr. 2007
27. **Conf. on Modular/Diophantine, MPIM Bonn, Germany** Feb. 2007
28. **Universiteit Leiden, Netherlands, Intercity Num. Th.** Sept. 2006
29. **Columbia University, Galois Repns./L-fns./Arithmetic** Jun. 2006
30. **Princeton/IAS Zeta Functions Women's Program** May 2006
31. **AMS-MAA Joint National Meetings, San Antonio** Jan. 2006
32. **Southern California Number Theory Day, UC-Irvine** Oct. 2005
33. **Gauss-Dirichlet Conference, Göttingen, Germany** Jun. 2005
34. **Southern California Number Theory Day, UCSD** May 2005
35. **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.
THESIS
STUDENTS

- Jonathan Endicott (Amherst, '22), *in-progress*
- Justin Warring (Amherst, '21E), *On "Strange" Identities and Quantum Modular Forms: q -hypergeometric Identities and Modular Properties of a Peculiar Function due to Kontsevich*.
- William (Jack) Wesley (Amherst, '18), *Combinatorial Proofs of Ramanujan's Congruences*. Co-recipient, Breusch Prize in Mathematics.
- Yen Nhi Truong Vu (Amherst, '17), *On the Modular Transformations and Asymptotic Behaviors of Mock Modular Forms*. Recipient, Breusch Prize in Mathematics.
- Edward Kim (Amherst, '15), *An Application of the Circle Method in Analytic Number Theory to the Partition Function*. Co-recipient, Breusch Prize in Mathematics.

- UNDERGRAD.
RESEARCH
ADVISED
- Summer 2021 (Amherst): A. Dietrich '22, K. Ng '23, C. Stewart '22, S. Xu '23, *in-progress*
 - Summer 2020 (Amherst): E. Pratt '22, N. Solomon '22, A. Tawfeek '21E, *Quantum Jacobi forms and sums of tails identities*, submitted. 25pp.
 - 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
ADVISING
- Women in Numbers 5, Research Project Advisor, BIRS Banff 2020 – present
 - 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
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, S20
 - Math 225: Fractal Geometry F14, F16, F19, S22
 - Math 281: Combinatorics** F17, F21
 - Math 260: Differential Equations S22
 - Math 310: Introduction to the Theory of Partitions** F16, S21
 - Math 345: Functions of a Complex Variable F21
 - 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 2019–2021
- Faculty Committee on Adjudication 2021–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 (5 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 various, 2014–present

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

- **Lunch in the Time of Covid**, panelist Apr. 2021
- **AMS Book Authors Panel**, panelist, JMM 2021 Jan. 2021
- **Dartmouth College Math Camp**, guest mathematician, July 2020
- **WIN4 and WIN5 Grants and Funding Panel**, panelist, 2017 & 2020
- ~~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 July 1, 2021 —