

KEN ONO

ADDRESS	Dept. of Mathematics and Computer Science Emory University Atlanta, Georgia 30322	EMAIL	ono@mathcs.emory.edu
		CITIZENSHIP	United States

EDUCATION

- UCLA, Ph.D. Mathematics (1993), M.A. Mathematics (1992).
- University of Chicago, B. A. Mathematics (1989).

RESEARCH

- Algebra, Arithmetic Geometry, Combinatorics, Number Theory.

EMPLOYMENT

- Emory University, Asa Griggs Candler Professor of Mathematics, 2010-present.
- UW Madison, Hilldale Professor of Mathematics, 2008-2011.
- UW Madison, Manasse Professor of Letters and Science, 2003-2011.
- UW Madison, Associate Professor 1999-2001, Professor 2001-2003.
- Penn State University, Martarano Professor of Mathematics, 1999-2000.
- Penn State University, Assistant Professor, 1997-1999.
- Institute for Advanced Study, Member, 1995-1997.
- University of Illinois (Urbana-Champaign), Assistant Professor, 1994-1995.
- University of Georgia, Visiting Assistant Professor, 1993-1994.
- Professional Cyclist, Pepsi/Miyata Cycling Team, 1989.

SELECTED HONORS

- DST International Film Festival, Best Film Prize, 2017.
- Eleanor Main Graduate Mentoring Award, Emory University, 2017.
- National Science Film Festival, Technical Excellence Award, 2017.
- AMS-NZMS Distinguished Maclaurin Lecturer, 2017.
- Discover magazine's 50th Best Story of Science in 2015.
- MAA George Polya Distinguished Lecturer, 2016-2017.
- Discover magazine's 15th Best Story of Science in 2014.
- Albert E. Levy Scientific Research Award, 2014.
- Named Fellow of the American Mathematical Society, 2012.
- Candler Endowed Professorship, Emory University, 2010.
- Favorite Instructor Award, UW Madison, Residence Halls, 2009.
- Hilldale Endowed Professorship, UW Madison, 2008-2011.
- Favorite Instructor Award, UW Madison Residence Halls, 2007.
- NSF Director's Distinguished Teaching Scholar Award, 2005.
- Manasse Endowed Professorship, UW Madison, 2003-2011.
- Guggenheim Fellowship, 2003.
- H. I. Romnes Fellowship, 2002.
- PECASE Award from President Clinton, 2000.

- David and Lucile Packard Fellowship, 1999.
- Louis J. Martarano Endowed Professorship, Penn State, 1999.
- Alfred P. Sloan Foundation Research Fellowship, 1999.
- NSF CAREER Award, 1999.

**SELECTED
CURRENT
EDITORIAL**

- Annals of Combinatorics, Editor.
- Bulletin of the American Mathematical Society, Book Review Editor.
- Communications in Number Theory and Physics, Editor.
- Encyclopedia of Srinivasa Ramanujan and His Mathematics, Springer, Editor-in-Chief.
- International Journal of Number Theory, Editor.
- Mathematical Intelligencer, Board of Correspondents.
- Proceedings of the American Mathematical Society, Managing Editor.
- Ramanujan Journal, Editor.
- Research in the Mathematical Sciences, Editor-in-Chief.
- Research in Number Theory, Editor-in-Chief.
- Royal Society Open Science, Associate Editor.
- Springer Graduate Texts in Mathematics, Editor.

**SELECTED
PROFESSIONAL
SERVICE**

- Infinity Film Foundation, Board Member, 2016-present.
- Emory McMullan Award Committee, 2016.
- AMS-MAA-SIAM Morgan Prize Committee, 2016-2019.
- Emory University Committee to Award Chaired/Named Professorships, 2015.
- Emory University Honorary Degree Committee, 2014-2017.
- AMS Nominating Committee, (Chair in 2013), 2012-2014.
- MAA Committee on the Status of the Profession, 2013-2015.
- AMS Working Group on Graduate Training (2010-2012).
- SASTRA Ramanujan Prize Committee, 2010-2012.
- U.S. National Committee for Mathematics, 2010-present.
- AMS Committee on Committees, 2009-2010.
- AMS Mathematics Research Communities Advisory Board, 2009-2012.
- Banff International Research Station, Scientific Advisory Board, 2009-2012.
- College of Letters and Science Academic Affairs Committee, UW Madison, 2007-2010.
- Pohang Mathematical Institute, Advisory Board, 2007-present.
- Institute for Mathematics and Education, Advisory Board, 2007-present.
- AMS Committee on Publications, (Chair 2007-2009), 2006-2009.
- Davidson Institute for Talent Development, Advisory Board, 2007-present.
- Council of the AMS, Member, 2006-present.
- Smithsonian Institution, Science and Technology Advisory Board, 2005-2007.
- College of Letters and Science Curriculum Committee, UW Madison, 2001-2004.

**SELECTED
INVITED
LECTURES**

- Norbert Wiener Lectures, Tufts University, 2017.
- AMS Arnold Ross Lecture, 2017.
- AMS-NZMS Maclaurin Lectureship, 2017.
- Atle Selberg Lectures, BYU, 2017.
- Porcelli Lectures, LSU, 2017.
- Phi Beta Kappa "Cities of Distinction", Atlanta, 2017.
- NSF "Big Ideas" Distinguished Lecture, 2017.
- Green Chair Lectures, TCU University, 2017.
- MAA Distinguished Lecture, Carriage House 2016.
- Mathematical Encounter, Museum of Mathematics, 2016.
- 2016 Monroe Martin Lectures, Johns Hopkins University.
- 2016 Nagle Lectures, University of South Florida.
- 2016-2017 Mathematical Association of America George Polya Lecture Series.
- Oliver Lecture and the Class of 60's Speaker, Williams College, 2015.
- 2015 International Mathematical Olympiad, Plenary Address.
- Mathematical Association of America Plenary Address, 2015 national meeting.
- Convocation Address, Emory University, 2014.
- American Mathematical Society's Erdős Memorial Lecture, 2012.
- Marian Miner Cook Athenaeum, Claremont McKenna College, 2012.
- Dressler Lectures, Kansas State University, 2012.
- Deutsche Mathematiker-Vereinigung Invited Address, 2011 national meeting.
- Paul Cohen Distinguished Lectures, U. Chicago, 2011.
- Columbia-CUNY-NYU Distinguished RTG Lecture, 2011.
- Frazier Distinguished Lecture, US Naval Academy, 2011.
- Distinguished Lecture Series, UCLA, 2010.
- C. S. Subramaniam Centenary Lecture, Madras Institute for Science, 2009.
- Oliver Atkin Memorial Lecture Series, University of Illinois (Chicago), 2009.
- George Kempf Lecture Series, Johns Hopkins, 2009.
- American Mathematical Society Invited Address, 2009 national meeting.
- Harvard-MIT Current Developments in Mathematics Lecture Series, 2008.
- Prosser Lecture Series, Dartmouth College, 2008.
- Gentry Lecture Series, Wake Forest University, 2008.
- Maxson Lecture Series, Texas A&M University, 2008.
- Distinguished Visitor Lecture Series, University of Iowa, 2006.
- Winifred Asprey Lecturer, Vassar College, 2006.
- Milton Brockett Porter Lectures, Rice University, 2003.
- NSF/CBMS Conference Lecturer, 2003.
- American Mathematical Society, Invited Address (sectional meeting), 2001.
- U. Utah, Prospects in Mathematics Lecture Series, 2000.

**SELECTED
PUBLICATIONS**
(160+ papers)

1. K. Ono and K. Soundararajan, *Inventiones Mathematicae* **130** (1997), 415-454.
2. K. Ono and C. Skinner, *Annals of Mathematics* **147** (1998), 453-470.
3. K. Ono and C. Skinner, *Inventiones Mathematicae* **134** (1998), 651-660.
4. W. Kohlen and K. Ono, *Inventiones Mathematicae* **135** (1999), 387-398.
5. K. Ono, *Annals of Mathematics* **151** (2000), 293-307.
6. K. Bringmann and K. Ono, *Inventiones Mathematicae* **165** (2006), 243-266.
7. K. Bringmann, K. Ono, and R. Rhoades, *J. American Math. Soc.* **21** (2008), 1085-1104.
8. K. Bringmann and K. Ono, *Annals of Mathematics*, **171** (2010), 419-449.
9. J. Bruinier and K. Ono, *Annals of Mathematics*, **172** (2010), 2135-2181.
10. P. Guerzhoy, Z. Kent, and K. Ono, *Proceeding of the National Academy of Sciences*, **107** (2010), 6169-6174.
11. K. Ono, *Proceedings of the National Academy of Sciences*, **108** (2011), 473-476.
12. M. Griffin, K. Ono and L. Rolén, *Proceedings of the National Academy of Sciences*, **110** (2013), 5765-5768.
13. M. Griffin, K. Ono, and S. O. Warnaar, *Duke Mathematical Journal*, **165** (2016), 1475-1527.
14. S. Jin, K. Ono, W. Ma, and K. Soundararajan, *Proceedings of the National Academy of Sciences*, **113** (2016), 2603-2608.
15. J. Duncan, M. Mertens, and K. Ono, *Nature*, Ser. Communications, in press.

BOOKS

1. S. Ahlgren, G. E. Andrews, and K. Ono, *Proceedings of Topics in Number Theory*, Vol. 467 Mathematics and Its Applications, Kluwer Academic Publishers, 1999.
2. B. C. Berndt and K. Ono, *Proceedings of q-series with Applications to Combinatorics, Number Theory and Physics*, Cont. Math., **291**, American Mathematical Society, 2001.
3. B. C. Berndt and K. Ono, *Memorial Issues Dedicated to Robert Rankin*, The Ramanujan Journal, **7**, Issues # 1-3, (2003),
4. K. Ono, *The web of modularity: Arithmetic of the coefficients of modular forms and q-series*, NSF-CBMS Conference Monograph, American Mathematical Society, 2004.
5. K. Bringmann, A. Folsom, K. Ono, and L. Rolén, *Harmonic Maass forms and mock modular forms*, American Mathematical Society, 2017.
6. A. D. Aczel and K. Ono, *My search for Ramanujan: How I learned to count*, Springer, New York, 2016.

**RESEARCH
GRANTS**
(non-conference)

- NSF Standard Grant (Co-PI: John Duncan, \$355,000), 2016-2019.
- NSF REU Grant, (\$303,000), 2016-2019.
- NSF REU Grant, (\$324,000), 2013-2016.
- NSF Standard Grant, (\$285,000), 2010-2016.
- NSF RTG Grant (\$1.3 million), 2009-2014.
- NSF REU Grant (\$237,709), 2009-2011.
- NSF Standard Grant (\$225,999), 2007-2010.
- NSF DTS Grant (\$305,000), 2005-2010.
- NSF FRG Grant (\$333,000), 2004-2007.
- NSF VIGRE Grant (\$2.5 million), 2004-2009.
- NSF REU Grant (\$71,991), 2003.
- Guggenheim Fellowship (\$75,000), 2003.

- Romnes Fellowship (\$50,000), 2002.
- Number Theory Foundation (\$51,000), 2000-2003.
- PECASE (\$500,000), 2000-2005.
- David and Lucile Packard Fellowship (\$625,000), 1999-2005.
- Sloan Fellowship (\$35,000), 1999-2001.
- NSF CAREER (\$200,000), 1998-2004.
- NSA Young Investigator (\$38,500), 1997-1999.
- NSF Postdoctoral Fellowship (\$75,000), 1995-1999.

**FURTHER
SELECTED
PROFESSIONAL
ACTIVITIES**

- Spirit of Ramanujan Global Talent Search (funded by the Templeton World Charity Fund), Organizer, 2016-present.
- National Geographic Television Program "Star Talk" hosted by Neil deGrasse Tyson, 2017.
- Interviews on 2016 NPR shows: The Takeaway, Science Friday, Inquiry.
- Associate Producer and Consultant, "The man who knew infinity", Pressman Films, 2014 production.
- Cast, "The genius of Srinivasa Ramanujan", Documentary by Nandan Kudhyadi Productions, 2013.
- AMS "Who wants to be a mathematician" High School Talent Search, Keynote scientist promoting science to high school students nationwide (Arizona, California, Florida, Hawaii, Iowa, Montana, Puerto Rico, South Carolina, Wisconsin, Wyoming), 2004-present.
- NSF Research Experiences for Undergraduates, Annual summer programs since 2003.
- NEC "Extreme Science", Keynote scientist selected by NEC to promote science nationwide (Maryland, Montana, Wisconsin, National Press Club), 2003.
- NSF 50 "Where discoveries begin", Keynote scientist selected by NSF to promote science to K-12 students nationwide (Michigan, Montana, Pennsylvania, Wisconsin), 2000-2001.
- NSF 50 "Back to School Campaign", Keynote scientist selected by NSF to promote science at the NSF's 50th Birthday Celebration.
- Judge of numerous science fairs annually.

ADVISING

- 24 Ph.D. theses. Students have assumed postdoctoral positions at institutions such as: MIT, Princeton (3), Stanford (5), Institute for Advanced Study, UCLA, U. Illinois, Urbana (3), Max Planck, and Ohio State. These students have won multiple NSF postdocs, and the 2006 PNAS "Paper of the Year Award". Some are now regular faculty at institutions such as: Brigham Young U., Duke, LSU, Oregon State, U. South Carolina, U. Tennessee (Knoxville).
- 14 Postdocs. Postdocs have assumed permanent faculty positions at institutions such as: Amherst College, Ohio State, Texas A&M (2), U. Illinois (Urbana), U. Minnesota (Twin Cities), U. Paris (Jussieu), U. Pennsylvania, U. Cologne (2), Yale. These postdocs have won prestigious awards such as: NSF CAREER Award, Krupp \$1 million Euro Prize, Heisenberg Fellowship, Sloan Fellowship, Chateaubriand Fellowship, and the SASTRA Ramanujan Prize.
- Dozens of undergraduates. Students have won 5 Morgan Prizes, 5 Alice T. Schafer Prizes, numerous NSF Graduate Fellowships, numerous Goldwater Scholarships, numerous Churchill Fellowships.
- Dozens of high school students. Students have won numerous national prizes since 1993 such as: International Science and Engineering Fair (7 top 3 awards), Westinghouse Talent Search (3rd in 1997), Intel Science Talent Search (2nd in 2000, 4th in 2005, 6th in 2011, 4th in 2013).