

KEN ONO

EDUCATION

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

EMPLOYMENT

- U. Virginia, STEM Advisor to the Provost ('22-present), Marvin Rosenblum Professor ('22-present), Dept. Chair ('21-'22), Thomas Jefferson Professor ('19-'22).
- Emory University, Asa Griggs Candler Professor of Mathematics ('10-'20).
- UW Madison, Associate Prof. ('99-'01), Prof. ('01-'03), Manasse Prof. of Letters and Science ('03-'11), Hilldale Prof. of Mathematics ('08-'11).
- Penn State, Assistant Prof. ('97-'99), Martarano Prof. of Mathematics ('99-'00).
- Institute for Advanced Study, Member ('95-'97).
- University of Illinois (Urbana-Champaign), Assistant Professor ('94-'95).
- University of Georgia, Visiting Assistant Professor ('93-'94).

SELECTED HONORS

- Honorary Professorships: Mathematical Sciences Institute Belagavi ('22-present), Indian Institute for Technology, Guwahati ('21-'22).
- Fellow of the Shannon Center for Advanced Studies, U. Virginia ('22-present).
- Distinguished Spotlight Researcher Award, University of Virginia, 2020.
- Phi Beta Kappa Distinguished Scholar, 2020-22.
- Rhodes Trust Inspirational Educator Award, 2019.
- Jubilee Chair Professor, Indian Academy of Sciences, 2019.
- Prose Award (Best Scholarly Mathematics Book), Assoc. of American Publishers 2018.
- Eleanor Main Graduate Mentoring Award, Emory University, 2017.
- Albert E. Levy Scientific Research Award, Emory University, 2014.
- Fellow of the American Mathematical Society, 2012.
- NSF Director's Distinguished Teaching Scholar Award, 2005.
- Guggenheim Fellowship, 2003.
- H. I. Romnes Fellowship, UW Madison, 2002.
- PECASE Award from President Clinton, 2000.
- David and Lucile Packard Fellowship, 1999.
- Alfred P. Sloan Foundation Research Fellowship, 1999.
- NSF CAREER Award, 1999.

CURRENT EDITORIAL

- Annals of Combinatorics, Editor.
- Communications in Number Theory and Physics, Editor.
- Contributions to Discrete Mathematics, Editor.
- Electronic Journal of Combinatorics, Editor.
- Hardy-Ramanujan Journal, Editor.
- International Journal of Number Theory, Editor.
- Involve, Editor.
- Mathematical Intelligencer, Board of Correspondents.
- Notices of the American Mathematical Society, Consultant.
- Ramanujan Journal, Editor.
- Research in the Mathematical Sciences, Editor-in-Chief.
- Research in Number Theory, Editor-in-Chief.

**SELECTED
SERVICE**

- Institute for Advanced Study, Board of Trustees of AMIAS ('22-'25).
- Phi Beta Kappa, Visiting Scholar Committee ('22-present).
- Advisory Board, Center for Advanced Mathematical Sciences, Lebanon ('21-present).
- U. Virginia: STEM Advisor to the Provost ('21-present), Shannon Fellow ('23-present), Dept. Chair ('21-'22), Hiring Committee ('20-'21), Grad Admissions ('20-'23).
- Technical Consultant, UVa Swimming ('19-present) and USA Swimming ('16-present).
- American Mathematical Society: Young Scholars Awards Committee ('22-'25); AAAS-AMS Address Committee ('22-'25, Chair); E. H. Moore Prize Committee ('21-'27, Chair '21-'24); Arnold Ross Lecture Committee ('19-'22, Chair '21-'22); Vice President ('18-'21); Committee on Publications ('06-'09, '18-'21, Chair '07-'09); Steering Committee for "Campaign for the Next Generation" that raised \$3 million ('17-'19); Morgan Prize Committee ('16-'19, '23-'26); Nominating Committee ('12-'14, Chair '13), Group on Graduate Training ('10-'12); Committee on Committees ('09-'10); AMS Council ('06-'21).
- American Association for the Advancement of Science ('20-'23, Chair of Mathematics Section, Council Member '23-'24).
- Advisory Board, Conference Board of the Mathematical Sciences ('18-'23).
- U.S. Delegate, International Mathematical Union General Assembly, 2018 ICM.
- Infinity Arts Foundation, Board Member ('16-present).
- SASTRA Ramanujan Prize Committee ('10-'12; '21-'22).
- Emory U.: Grad Admissions ('10-'19), Honorary Degree Committee ('14-'17), Senate ('18-'19).
- U.S. National Committee for Mathematics (NAS) ('10-'22).
- UW Madison: Grad Admissions ('04-'10), Grad Program Coordinator ('04-'10).
- AMS Mathematics Research Communities Advisory Board ('09-'12).
- Banff International Research Station, Scientific Advisory Board ('09-'12).
- Davidson Institute for Talent Development, Mathematics Advisor ('07-present).
- Smithsonian Institution, Science and Technology Advisory Board ('05-'07).

**SELECTED
INVITED
LECTURES**

- Mathematical Association of America Distinguished Lecture (2022, 2016).
- Phi Beta Kappa Distinguished Lecturer (6 campus lecture tour), 2021.
- Mathematical Frontiers (with Terry Tao), US National Academy of Sciences, 2018.
- Simons Foundation Distinguished Lecture, 2018.
- AMS Arnold Ross Lecture, 2017.
- AMS-NZMS Maclaurin Lectureship, 2017.
- Phi Beta Kappa "Cities of Distinction", Atlanta, 2017.
- NSF "Big Ideas" Distinguished Lecture, 2017.
- NSF Matters (with Dir. F. Cordova) for Presidential Transition, White House, 2016.
- 2016-2017 Mathematical Association of America George Polya Lecture Series.
- 2015 International Mathematical Olympiad, Chiang Mai, Thailand, Plenary Address.
- Mathematical Association of America Plenary Address, 2015 national meeting.
- Convocation Address, Emory University, 2014.
- American Mathematical Society's Erdős Memorial Lecture, 2012.
- Deutsche Mathematiker-Vereinigung Invited Address, 2011 national meeting.
- American Mathematical Society Invited Address, 2009 national meeting.
- Harvard-MIT Current Developments in Mathematics Lecture Series, 2008.
- NSF/CBMS Conference Lecturer, 2003.
- American Mathematical Society, Invited Address, 2001.

**SELECTED
PUBLICATIONS**
(200+ 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. K. Ono, *Proceedings of the National Academy of Sciences*, **108** (2011), 473-476.
11. M. Griffin, K. Ono and L. Rolen, *PNAS*, **110** (2013), 5765-5768.
12. M. Griffin, K. Ono, and S. O. Warnaar, *Duke Math. J.*, **165** (2016), 1475-1527.
13. S. Jin, K. Ono, W. Ma, and K. Soundararajan, *PNAS*, **113** (2016), 2603-2608.
14. J. Duncan, M. Mertens, and K. Ono, *Nature*, Ser. Communications, **8** (2017), Art. 670.
15. M. Griffin, K. Ono, L. Rolen, and D. Zagier, *Proceedings of the National Academy of Sciences*, **116** (2019), 11103-11110.

**BOOKS AND
EDITED
PROCEEDINGS**

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. A. D. Aczel and K. Ono, *My search for Ramanujan* (Memoir), Springer, New York, 2016.
6. K. Bringmann, A. Folsom, K. Ono, and L. Rolen, *Harmonic Maass forms and mock modular forms: theory and applications*, American Mathematical Society, 2017.
7. K. Bringmann, M. Kontsevich, P. Moree, K. Ono, and M. Raum, *Modular Forms and Everywhere: Celebration of Don Zagier's 65th Birthday*, Springer, 2018.
8. K. Ono, *Srinivasa Ramanujan: in celebration of the centenary of his election as FRS*, Philosophical Transactions of the Royal Society A, **378** (2020), Issue 2163.
9. B. Gross, K. Ono, F. Rodriguez Villegas, *Modular forms: Celebrating Don Zagier's 70th Birthday*, Special Issue of *Pure and Applied Mathematics Quarterly*, in preparation.
10. K. Alladi, G. Andrews, B. Berndt, F. Garvan, K. Ono, P. Paule, O. Warnaar, and A. J. Yee, *Srinivasa Ramanujan: His Life, Legacy, and Mathematical Influence*, Springer, in preparation.

**RESEARCH
GRANTS**
(non-conference)

- Continuous NSF research support since 1995.
- NSF Standard Grants:
\$275,975 ('21-'24); \$355,000 ('16-'20); \$303,000 ('16-'19); \$324,000 ('13-'16);
\$285,000 ('10-'16); \$237,000 ('09-'11), \$225,000 ('07-'10).
- NSF REU Grants: \$415,976 ('22-'25); \$292,300 ('20-'22); \$360,628 ('19-'22).
- NSA REU Grants: \$125,000 (2022), \$80,437 (2021), \$80,000 (2020), \$70,000 (2019).
- Templeton World Charity Foundation: \$550,000 ('18-'23); \$100,000 ('16-'18).
- NSF Research and Training Grant (RTG): \$1.3 million ('09-'14).
- NSF Director's Distinguished Teaching Scholar Award: \$305,000 ('05-'10).
- NSF Focused Research Grant (FRG): \$333,000 ('04-'07).

- NSF Vertical Integration of Research and Education (VIGRE): \$2.5 million ('04-'09).
- NSF Grant: \$71,991 (2003).
- Guggenheim Fellowship: \$75,000 (2003).
- Romnes Fellowship, UW Madison: \$50,000 (2002).
- Number Theory Foundation Grant: \$51,000 ('00-'03).
- PECASE: \$500,000 ('00-'05).
- David and Lucile Packard Fellowship: \$625,000 ('99-'05).
- Sloan Fellowship: \$35,000 ('99-'01).
- NSF CAREER Award: \$200,000 ('98-'04).
- NSA Young Investigator Award: \$38,500 ('97-'99).
- NSF Postdoctoral Fellowship: \$75,000 ('95-'99).

MEDIA AND OUTREACH

- Lead cast (self), Miller beer Super Bowl week commercial, 2022.
- Science India TV program (30 minute special), 2019.
- Spirit of Ramanujan Global STEM Talent Search, Organizer, 2016-present.
- National Geographic TV Program *Star Talk* hosted by Neil deGrasse Tyson, 2017.
- Eureka TV Program (30 minute special), 2017.
- NPR Interviews: The Takeaway ('16), Science Friday ('16), Inquiry ('16), Radio IQ ('22).
- Assoc. Producer of *The Man Who Knew Infinity* starring J. Irons and D. Patel ('14).
- Cast, *The Genius of Srinivasa Ramanujan*, Docudrama by N. Kudhyadi Films, 2013.
- AMS “*Who wants to be a mathematician*”, Program Advisor, 2004-2020.
- Organizer of annual NSF REU summer programs since 1998.
- 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 promoting NSF’s 50th Birthday.

ADVISING

- 32 Ph.D. Students. Assumed postdocs at MIT, Princeton (3), Stanford (5), Inst. Advanced Study, U. Bristol, UCLA, U. Cologne, U. Illinois, Urbana (4), Max Planck, to name a few. Mahlburg’s thesis paper was the '06 PNAS “Paper of the Year Award”. They have earned tenure track/tenured positions at Brigham Young (2), Duke, LSU, Michigan Tech., Oregon State, St. Petersburg State, U. Florida, U. Georgia, U. Illinois (U), U. South Carolina (2) U. Tenn. (Knoxville), Tulane, Tufts, Vanderbilt, to name a few.
- 4 M.A. Students
- 17 Postdocs. Earned permanent faculty positions at Amherst, Ohio State, Texas A&M (2), TU Delft (Netherlands), U. Bonn, U. Illinois (Urbana), U. Liverpool (UK), U. Minnesota (Twin Cities), U. Paris (Jussieu), U. Pennsylvania, U. Cologne (2), Yale, among others. They have won AMS Dolciani Prize, Chateaubriand Fellowship, Fulbright Fellowship, Heisenberg Fellowship, Krupp \$1 million Euro Prize, NSF CAREER Award, the SASTRA Ramanujan Prize, Sloan Fellowship, among others.
- 100+ undergrads in REUs: 8 Morgan Prizes, 8 Schafer Prizes, 2 Rhodes Scholars, dozens of NSF Grad Fellowships and many Goldwater Scholars. Mentees have assumed tenure track/tenured positions at Brown (2), Duke, Harvard, Notre Dame, Purdue, UC Berkeley (2), UC San Diego, U. Michigan (3), U. Washington (2), Vanderbilt, to name a few.
- Dozens of HS students. ISEF (7 top 3 awards), Westinghouse STS (3rd in 1997), Intel STS (2nd in 2000, 4th in 2005, 6th in 2011, 4th in 2013), Regeneron STS (1st in 2021).