CURRICULUM VITAE

NAME: Krishnaswami Alladi

PRESENT POSITION: Professor

ADDRESS: Department of Mathematics
University of Florida
Gainesville, Florida 32611
Ph: (352) 294-2290
e-mail: alladik@ufl.edu

BORN: October 5, 1955, Trivandrum, India

DEGREES: Ph.D., U.C.L.A. - 1978; Advisor-E.G. Straus
M.A., U.C.L.A. - 1976
B.Sc., Madras University, India - 1975

RESEARCH INTERESTS: Number Theory - Analytic Number Theory,
Sieve Methods, Probabilistic Number Theory,
Diophantine Approximations, Partitions,
q-hypergeometric identities

PROFESSIONAL EXPERIENCE:

T.H. Hildebrandt Research Assistant Professor, University of Michigan, 1978-81
Visiting Member, Institute for Advanced Study, Princeton, New Jersey, 1981-1982.
Visiting Associate Professor, University of Texas, Austin, Texas, 1982-1983.
Visiting Associate Professor, University of Hawaii, Honolulu, Hawaii, 1984-1985.
Associate Professor, Institute of Mathematical Sciences, Madras, India, 1981-1986.
Associate Professor, University of Florida, 1986-1989.
Professor, University of Florida, 1989-present.
Visiting Professor, Pennsylvania State University, 1992-93, and Fall 94
Chairman, Department of Mathematics, University of Florida, 1998-2008

AWARDS AND HONORS:

Chancellor's Fellowship for the Ph.D., 1975-78, UCLA.
Alumni Medal for one of 5 best Ph.D. theses (all subjects) at UCLA in 1978.
CLAS Research Awards at University of Florida thrice: 1987, 1994, 2000
TIP Award for distinguished teaching at the University of Florida in 1994-95.
STEP/SPP Awards for distinguished performance in the rank of Full Professor at
    the University of Florida twice: 2001, 2010.
Elected Inaugural Fellow of the American Mathematical Society in 2012-13.
Conference in honor of my 60th birthday, University of Florida, Mar 2016
https://qseries.org/fgarvan/alladi60.html
Honorary Doctorate of Science (Honoris Causa), Sept. 2022, by SASTRA Univer-
    sity for my distinguished contributions to mathematics.

GRANTS: (Peer reviewed federal research grants and conference grants)

N.S.F. Grant at University of Michigan, Ann Arbor (1979-80), MCS 78-02685

Supported by N.S.F. Grant MCS 77-18723-A04 at Institute for Advanced Study, Princeton (1981-82)

N.S.F. Grant at University of Florida, Gainesville (1994-98), DMS-9400191.

N.T.F. "Number Theory Foundation" Grant at University of Florida, Spring 2000.

N.S.F. Grant at University of Florida, Gainesville (2000-04), DMS-0088975.

Indo-US Forum Grant (Dept Sci and Technology (DST), India and The National Academy of Sciences, USA) for organizing Int'l Conf on Number Theory and Secure Communications at SASTRA University, Kumbakonam (Ramanujan's hometown), India, Dec 20-22, 2003 inaugurated by the President of India.

N.T.F. Grant for organizing Conf. in Kumbakonam, India, Dec. 2003.

Indo-US Forum Grant (DST India, and the Smithsonian Institution, USA), for organizing Int'l Conf on Fourier Analysis and Number Theory, at SASTRA University, Kumbakonam (Ramanujan's hometown), India, Dec 20-22, 2004.

Indo-US Forum Grant (DST, India and the Smithsonian Institution, USA), for organizing Int'l Conf on Number Theory and Mathematical Physics, at SASTRA University, Kumbakonam (Ramanujan's hometown), India, Dec 20-22, 2005.

National Security Agency Grant (NSA) MSPF-06G-150 - Krishnaswami Alladi (PI), Alexander Berkovich (Co-PI), Frank Garvan (Co-PI) - at the University of Florida, 2006-09.

Indo-US Forum Grant (DST, India and the Smithsonian Institution, USA), for organizing Int'l Conf on Number Theory and Combinatorics, at SASTRA University, Kumbakonam (Ramanujan's hometown), India, Dec 19-22, 2006.

NSF Grant for Conference and Student Workshop on Partitions, Q-series and Modular Forms as part of the Program in Algebra, Number Theory and Combinatorics (ANTC) at the University of Florida, March 2008.

NSF Grant for Conferences, Student Workshop, and Focused Weeks on Quadratic and Higher Degree Forms, Program in ANTC, University of Florida, 2008-11.

NSA Grant MSPF-08G-154 - Krishnaswami Alladi (PI), Alexander Berkovich (Co-PI), Frank Garvan (Co-PI) - at the University of Florida, 2008-11.

NSF Grant for Conference on "Ramanujan 125", University of Florida, Nov 2012 (PI: Frank Garvan; Co-PI: Krishnaswami Alladi)

NSA Grant for Conference on "Ramanujan 125", University of Florida, Nov 2012 (PI: Frank Garvan; Co-PI: Krishnaswami Alladi)

ORGANIZATIONS:

Member of The American Mathematical Society

OTHER PROFESSIONAL ACTIVITIES:

Organizer of a special session on Number Theory at the A.M.S. regional meeting in Notre Dame, March (1981).

Organizer for Number Theory Conferences for "Matscience" in India, June (1981) and January (1984). The Proceedings of both these meetings appeared as Springer Lecture notes 958 and 1122, respectively, under my editorship.

Organizer of a Symposium on Number Theory at the International Conference for Srinivasa Ramanujan's Centennial, Anna University, Madras, India, Dec 1987. The Proceedings appeared as Springer Lecture Notes 1395 under my editorship.

Elected to Panel of Visiting Lecturers, Math Association of America, 1991-1994.

Organizer, International Number Theory Symposium, Anna University, Madras, India, January 1996. The Proceedings of this was published in 1997 as one issue of The Ramanujan Journal under my editorship. (Issue 4, Vol. 1, 1997).

Member of Program Committee (to select the one hour speakers) of the Southeastern Section of the American Mathematical Society, 2002.

Chair of Program Committee (to select the one hour speakers) of the Southeastern Section of the American Mathematical Society, 2003.

Organizer of annual Int'l Conferences on Number Theory and Related Topics at SASTRA University, Kumbakonam, India (Ramanujan's hometown) since 2003.

Member: External Review Committee for Math Dept, Louisiana State University, Baton Rouge in 2004

Chair: SASTRA Ramanujan Prize Committee- since 2005.

Chair: Team for Initial Accreditation of BS Math Programs at The American University of Sharjah and University of Sharjah, United Arab Emirates, 2007.

Member, American Mathematical Society Committee on Committees, 2009-11.

Chair: External Review Committee for the Mathematics Department of the King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia, 2009.

Chair: Team for Initial Accreditation of MS Math Program at The American University of Sharjah, United Arab Emirates, 2011

Member: Accrediation team for the Math and Stat Dept of the King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia, 2012

Member: Accrediatation team for Colleage of Sciences, New York University Abu Dhabi Campus, UAE, 2015.

Member: Accreditation Team for College of Science, United Arab Emirates University, Al Ain, UAE, April 2017

Member: Initial Accreditation Team of the College of Science, University of Balamand, Dubai, UAE, October 2017

Chair: Re-Accreditation Team for the Department of Mathematics, American University of Sharjah, UAE, January 2018

Chair: Accreditating Team for the Department of Mathematics, Khalifa University, Abu Dhabi, UAE, March 2022

EDITORSHIP:

Editor-in-Chief and Founder of *The Ramanujan Journal* - an international journal devoted to areas influenced by Srinivasa Ramanujan, published by Springer.

Editor of a book series - *Developments in Mathematics*, published by Springer.

Editor - *Notices of the American Mathematical Society*, 2009-15.

Editor - *Springer Briefs in Mathematics*, 2011-14

Editor - *The Mathematics Student* (India), since 2015.

THESES AND DISSERTATIONS DIRECTED:

"On the parity of the number of small prime factors of integers", Salai T. Dhavakodi, University of Florida, 1992(PhD)

"Five problems in Combinatorial Number Theory", Zoltan Reti, University of Florida, 1994(PhD)

"The rank parity function of Srinivasa Ramanujan", Frank E. Daniels, University of Florida, 1994 (PhD)

"A study of the anatomy of the integers via large prime factors", Todd Molnar, University of Florida, 2012 (Masters)

"On the local distribution of the number of small prime factors", Todd Molnar, University of Florida, Spring 2017 (PhD)

"Some problems in analytic number theory", Ankush Goswami, University of Florida, Spring 2019 (PhD)

DEPARTMENTAL SERVICE:

Grad Selection Committee, 1987-88, 2009-12, 2016-21
Steering Committee 1988-90.
Search Committee 1988-90, 1990-91, 2018-19; Hiring Plan Committee 2009-15.
Tenure and Promotion Committee, 1991-92, 1995-98, 2011-21
Colloquium/Visitors Committee, 1993-94, 2009-21;
TIP Awards Committee 1993-94. *Chair*: TIP Awards Committee, 1995-96.
Chair: Mathematics Department 1998-2008.

Service as Chairman of the Mathematics Department:

As Chair I have initiated a number of successful programs aimed at getting increased visibility and recognition of our research within campus and internationally and in enhancing collaboration with other disciplines. They include:
The Annual Erdös Colloquium in Pure Mathematics launched in 1998-99
The Annual Ulam Colloquium in Applied Mathematics launched in 1998-99
Special Year Programs launched in 2001-02
John G. Thompson Research Assistant Professorship launched in 2002-03
The Annual Ramanujan Colloquium launched in 2007
A vibrant program in biomath launched in 1999-00

In recognition of my services as Chair, I was invited by the Board of Mathematical Sciences to speak at the Annual Mathematics Chairs Colloquium, held at the National Academy of Sciences, Washington D.C. in November 2002. The title of my talk was *Enhancing visibility and strengthening ties with other disciplines.*

In recognition of my services as Chair, I was invited to be one of four Workshop Leaders for a three year period starting 2005 for the Mathematics Chairs Workshops by the American Mathematical Society in conjunction with their Annual Meetings in Atlanta (Jan 2005), San Antonio (Jan 2006) and New Orleans (Jan 2007).

TALKS AND INVITED ADDRESSES AT MEETINGS & COLLOQUIA

Colloquium and Seminar talks:

Have given colloquium talks at various American and European Universities: Boulder (1978), Heidelberg (1979), Ulm (1979), Bonn (1980), Frankfurt (1980), Penn State (1981), Edmonton (1982), Vancouver (1982), Stillwater (1983), Ulm (1983), Frankfurt (1983), Honolulu (1983), Tucson (1985), Boulder (1985), Gainesville (1985), Paris (1986), Nancy (1986), Bordeaux (1986), Stuttgart (1986), Honolulu (1986), Philadelphia (1987), Durham N.H. (1987), Honolulu (1987), Singapore (1987), (1988), (1990), Orlando (1990), Urbana (1992), U.C.L.A. (1992), Penn. State (1992), Trieste (1993), Paris (1993),Nancy (1993), Lyon (1993), Nice (1993), Singapore (1994), Honolulu (1995), UCLA (1995), Paris (1995), Nancy (1995), Lyon (1995), Singapore (1995),Boulder (1996), Honolulu (1997), Tampa (1998), Beijing (1999), Shanghai (1999), Urbana (1999), Singapore (1999), Vienna (2000), Linz (2000), Honolulu (2001),(2002), Beijing (2002), Xian, China (2002), Iizuka, Japan (2002), Brighton, England(2002), Bangalore, India (2003), Penn State (2003), Allahabad, India (2004), Trieste, Italy (2004), Arizona State (2004), Penn State (2005), Essen (2005), Madrid (2006), Hyderabad, India (2006), Shanghai (2006), Urbana (2008), Brigham Young (2008), Indianapolis (2010), Georgia Southern (2010), Georgia Tech (2010), Honolulu (2011), Auburn (2013), Hebrew Univ., Jerusalem (2013), TIFR (2013), Penn State (2013), Urbana (2014), UCF (2014), Univ Ankara (2014), Bilkent Univ Ankara (2014), Hacceteppe Univ, Ankara (2014), MATSCIENCE, Madras, India (2015), KIAS, Seoul, Korea (2015), Korea Inst. Tech. (2015), Research Inst. Symbolic Computation, Linz, Austria (2016), University of Vienna (2016), Alfred Renyi Inst., Budapest (2016), UNC Greensboro (2016), University of Mauritius (2017), Bhaskharacharya Prathisthana, Pune, India (2019), IIT Bombay (2019), Baylor Univ. (2019), Research Inst. Symbolic Computation, Linz, Austria (2022), Penn State (2022).

Have given seminar talks on Number Theory at Maryland (1976), Princeton (1981), CUNY (1982), Georgia (1986), Paris (1986), T.I.F.R. Bombay (1991), Urbana (1992), U.C.L.A. (1992), Penn. State (1992), Paris (1993), Penn. State (1994), Boulder (1996), Singapore (1997), Urbana (1999), Beijing (1999), Shanghai (1999), Singapore (2001), Bangalore, India (2003), Penn State (2003), Allahabad, India (2004), Xian, China (2004), Ohio State (2004), Penn State (2005), Essen (2005), Valencia (2006), Penn State (2007), Urbana (2008), and Brigham Young (2008), Penn State (2008), Emory (2009), Rutgers (2010), Istanbul (2012), Penn State (2013), Urbana (2014), Ankara (2015), Research Inst. Symbolic Computation, Linz, Austria (2016), University of Vienna (2016), University of Mauritius (2017), Emory Univ. (2017), (2019), Research Inst. Symbolic Computation, Linz, Austria (2022), Penn State (2022).

Invited talks at meetings:

Conferences organized by Mathematisches Forschungs Institut, Oberwolfach, West Germany: Diophantine Approximations (1979), Analytic Number Theory (1986), (1988), Enumerative Combinatorics and the Symmetric Groups (1995).

Invited Speaker at special sessions on Number Theory at American Mathematical Society Conferences: Ann Arbor (1980), Knoxville (1980), Notre Dame (1981), Denver (1983), Norman (1983), Anaheim (1985), DeKalb (1993), Vancouver

(1993), Minnesota (1994), Greensboro (1995), Philadelphia (1998), Penn. State (1998, 2009), Gainesville (1999), San Francisco (2003, 2006), Urbana (2009), Tucson (2012), San Diego (2013), Lubbock (2014), San Antonio JMM (2015), Rutgers (2015), Atlanta JMM (2017), Gainesville, FL (2019).

NSF supported workshops: Ann Arbor (1973), Austin (1982) and Stillwater (1984).

Invited speaker at the conference, "Ramanujan and Science in the Third World," Framingham State University, Massachusetts, October 1987.

Invited speaker at the Symposium on Number Theory at the International Conference for Srinivasa Ramanujan's Centennial, Anna University, Madras, India, December 1987.

In-state invited address at the Florida Section Meeting of the Mathematical Association of America, Winter Park, Florida, March 1988.

Invited address at the Suncoast Regional Meeting of the Mathematical Association of America, St. Petersburg, Florida, December 1988.

Invited speaker at International Conference on Number Theory in honor of Paul Bateman, University of Illinois, Urbana, April 1989.

Invited speaker at the Second Conference of the Canadian Number Theory Association, Univeristy of British Columbia, Vancouver, Canada, August 1989.

Invited address, First Coast Regional Meeting of the Mathematical Association of America, Jacksonville, Florida, October 1990.

Srinivasa Ramanujan Endowment Lecture, Anna University, Madras, India, December 1990. ss Illinois Number Theory Conference, University of Illinois at Urbana, April 1992.

Invited speaker, International Conference on Number Theory in honor of Heini Halberstam, University of Illinois at Urbana, May 1995.

Invited Address (one hour), Conference on Special Functions, q-Series and Related Topics organized by The Fields Institute, Toronto, Canada, June 1995.

Invited Speaker, International Symposium on Number Theory, Anna University, Madras, India, January 1996.

Invited Speaker, Tenth Anniversary Conference of The Ramanujan Mathematical Society, Tiruchirapalli, India, January 1996.

Invited Speaker, DIMACS Conference on Combinatorial Number Theory, Rutgers University, February 1996.

Invited speaker, Conf on Number Theory, Penn. State University, August 1997.

Invited speaker, at Special Session on Paul Erdös, Mathematical Association of America Mathfest, Atlanta, August 1997.

Invited talk (45 minutes), International Congress on Algebra and Combinatorics, Hong Kong, August 1997.

Plenary lecture (one hour), Japan Number Theory Conference, Research Institute of Mathematical Sciences (RIMS), Kyoto, November 1997.

Invited speaker, American Mathematical Society Conference in honor of Richard Askey at Mt. Holyoke, June 1998.

Invited speaker at Seminaire Lotharingien de Combinatoire in honor of George Andrews at Maratea, Italy, September 1998.

Invited speaker (one hour), Conference in honor of George Andrews, Penn. State University, October 1998.

Invited speaker, Conference in memory of Paul Erdös, Hungarian Academy of Sciences, Budapest, July 1999.

Invited speaker (one hour), Illinois Number Theory Conference, Urbana, September 1999.

Invited speaker, Millenial Number Theory Conference, University of Illinois, Urbana, May 2000.

Invited speaker, Conference on Number Theory in honor of K. Gyory and A. Sarkozy, Debrecen, Hungary, July 2000.

Invited speaker, Ramunujan Millenium Conference, Panjab University, Chandigarh, India, September 2000.

Invited speaker (one hour), Japan-China Number Theory Conference, Iizuka, Japan, March 2001.

Invited speaker, First Joint Conference of the American and French Mathematical Societies, Lyon, France, July 2001.

Invited speaker, International Conference in Number Theory in honor of Jean-Louis Nicolas, Marseille-Luminy, France, January 2002.

Invited speaker, International Conference on Group Theory in honor of John G. Thompson, Cambridge University, England, September 2002.

Invited to give Weissman Public Lecture of the City University of New York, November 2002.

Invited Plenary Speaker, International Conference on Topology, Zeta Functions and Quantum Physics, University of Kinki, Osaka, Japan, March, 2003.

Invited Speaker (one hour), International Conference on Point Processes, Madras, India, August 2003.

Invited opening speaker, International Conference on Number Theory, Bangalore, India, Dec. 2003.

Invited speaker (one hour), Conference in honor of George Andrews, Penn. State University, October 1998.

Invited speaker, Conference in memory of Paul Erdös, Hungarian Academy of Sciences, Budapest, July 1999.

Invited speaker (one hour), Illinois Number Theory Conference, Urbana, September 1999.

Invited speaker, Millenial Number Theory Conference, University of Illinois, Urbana, May 2000.

Invited speaker, Conference on Number Theory in honor of K. Gyory and A. Sarkozy, Debrecen, Hungary, July 2000.

Invited speaker, Ramunujan Millenium Conference, Panjab University, Chandigarh, India, September 2000.

Invited speaker (one hour), Japan-China Number Theory Conference, Iizuka, Japan, March 2001.

Invited speaker, First Joint Conference of the American and French Mathematical Societies, Lyon, France, July 2001.

Invited speaker, International Conference in Number Theory in honor of Jean-Louis Nicolas, Marseille-Luminy, France, January 2002.

Invited speaker, International Conference on Group Theory in honor of John G. Thompson, Cambridge University, England, September 2002.

Invited to give Weissman Public Lecture of the City University of New York, November 2002.

Invited Plenary Speaker, International Conference on Topology, Zeta Functions and Quantum Physics, University of Kinki, Osaka, Japan, March, 2003.

Invited Speaker (one hour), International Conference on Point Processes, Madras, India, August 2003.

Invited opening speaker, International Conference on Number Theory, Bangalore, India, Dec. 2003.

Invited speaker (one hour), Conference in honor of George Andrews, Penn. State University, October 1998.

Invited speaker, Conference in memory of Paul Erdös, Hungarian Academy of Sciences, Budapest, July 1999.

Invited speaker (one hour), Illinois Number Theory Conference, Urbana, September 1999.

Invited speaker, Millenial Number Theory Conference, University of Illinois, Urbana, May 2000.

Invited speaker, Conference on Number Theory in honor of K. Gyory and A. Sarkozy, Debrecen, Hungary, July 2000.

Invited speaker, Ramunujan Millenium Conference, Panjab University, Chandigarh, India, September 2000.

Invited speaker (one hour), Japan-China Number Theory Conference, Iizuka, Japan, March 2001.

Invited speaker, First Joint Conference of the American and French Mathematical Societies, Lyon, France, July 2001.

Invited speaker, International Conference in Number Theory in honor of Jean-Louis Nicolas, Marseille-Luminy, France, January 2002.

Invited speaker, International Conference on Group Theory in honor of John G. Thompson, Cambridge University, England, September 2002.

Invited to give Weissman Public Lecture of the City University of New York, November 2002.

Invited Plenary Speaker, International Conference on Topology, Zeta Functions and Quantum Physics, University of Kinki, Osaka, Japan, March, 2003.

Invited Speaker (one hour), International Conference on Point Processes, Madras, India, August 2003.

Invited opening speaker, International Conference on Number Theory, Bangalore, India, Dec. 2003.

Invited one hour speaker, International Conference on Number Theory and Secure Communications in memory of Ramanujan (inaugurated by the President of India), Kumbakonam, India, Dec. 2003.

Invited opening speaker, (one hour) Third China Japan Conference on Number Theory, Xian, China, Feb. 2004.

Invited speaker (one hour), Conference in honor of George Andrews for his election to the National Acad. Sci., Penn. State Univ., April 2004.

Invited Speaker (one hour), International Conference on Fourier Analysis and Number Theory, Srinivasa Ramanujan Centre at SASTRA University, Kumbakonam, India, December 2004.

Srinivasa Ramanujan Commemmoration Lecture, SASTRA University, Kumbakonam, India, December 22, 2004.

Invited Speaker, Conference on Combinatorial and Analytic Number Theory (CANT 05) in honor of Mel Nathanson, City University of New York, May 2005

Invited Speaker, International Conference on Probability and Number Theory, Kanazawa, Japan, June 2005.

Plenary Speaker, International Conference on Number Theory and Mathematical Physics, SASTRA University, Kumbakonam, India, Dec 2005.

Invited Speaker, Fourth China-Japan Number Theory Conf., Weihai, Aug 2006

Plenary Speaker, International Conference on Number Theory and Combinatorics, SASTRA University, Kumbakonam, India, Dec 2006.

Principal speaker (45 mins), Conference on Combinatorial and Additive Number Theory, CUNY Graduate Center, May, 2007.

Plenary Speaker, International Conference on Number Theory, Special Functions, and Mathematical Physics, SASTRA University, Kumbakonam, India, Dec 2007.

Invited Speaker, Special Session on Ramanujan, Mathematical Association of America MathFest, Madison, Wisconsin, Aug 2008

Plenary Speaker, Combinatory Analysis 2008, Conference in honor of George Andrews for his 70-th birthday, Penn State University, Dec 2008.

Plenary Speaker, International Conference on Number Theory and Modular Forms, SASTRA University, Kumbakonam, India, Dec 2008.

One hour address, Ramanujan Revisited - International Conference for Venkatachaliengar's Centenary, Bangalore, India, June 2009.

Invited half hour speaker, International Conference on Number Theory and Mock Theta Functions, SASTRA University, Kumbakonam, India, Dec 2009.

Invited hour talk, International Conference on the Renaissance of Combinatorics for Doron Zeilberger's 60-th birthday, Nankai University, China, Aug 2010

Invited half hour talk, International Conference on Number Theory and Automorphic Forms, SASTRA University, Kumbakonam, India, Dec 2010

Invited 40 min talk, MAA Session on the Beauty and Power of Number Theory, Joint Annual Meeting of the American Mathematical Society and the Mathematical Association of America, New Orleans, Jan 2011

Plenary Speaker, International Conference on Number Theory and Mathematical Physics, SASTRA University, Kumbakonam, India, Dec 2005.

Invited Speaker, Fourth China-Japan Number Theory Conf., Weihai, Aug 2006

Plenary Speaker, International Conference on Number Theory and Combinatorics, SASTRA University, Kumbakonam, India, Dec 2006.

Principal speaker (45 mins), Conference on Combinatorial and Additive Number Theory, CUNY Graduate Center, May, 2007.

Plenary Speaker, International Conference on Number Theory, Special Functions, and Mathematical Physics, SASTRA University, Kumbakonam, India, Dec 2007.

Invited Speaker, Special Session on Ramanujan, Mathematical Association of America MathFest, Madison, Wisconsin, Aug 2008

Plenary Speaker, Combinatory Analysis 2008, Conference in honor of George Andrews for his 70-th birthday, Penn State University, Dec 2008.

Plenary Speaker, International Conference on Number Theory and Modular Forms, SASTRA University, Kumbakonam, India, Dec 2008.

One hour address, Ramanujan Revisited - International Conference for Venkatachaliengar's Centenary, Bangalore, India, June 2009.

Invited half hour speaker, International Conference on Number Theory and Mock Theta Functions, SASTRA University, Kumbakonam, India, Dec 2009.

Invited hour talk, International Conference on the Renaissance of Combinatorics for Doron Zeilberger's 60-th birthday, Nankai University, China, Aug 2010

Invited half hour talk, International Conference on Number Theory and Automorphic Forms, SASTRA University, Kumbakonam, India, Dec 2010

Invited 40 min talk, MAA Session on the Beauty and Power of Number Theory, Joint Annual Meeting of the American Mathematical Society and the Mathematical Association of America, New Orleans, Jan 2011

Invited 45 minute talk, Conference on Partitions, Emory University, Atlanta, Georgia, Jan 2011

Invited 40 min talk, International Conference on Number Theory, Ergodic Theory, and Dynamics, SASTRA University, Kumbakonam, India, Dec 22, 2011.

Plenary Speaker (one hour), Ramanujan 125-th Anniversary Legacy Conference, Ramanujan Mathematical Society, New Delhi, India, Dec 17-22, 2012.

Invited 30 min talk, Erdös Centennial Conference, Budapest, Hungary, July 4, 2013.

One hour talk, Conference on the Combinatorics of Partitions in honor of George Andrews for his 75-th birthday, Nankai Univ., Tianjin, China, Aug. 2, 2013

Invited 30 min talk, International Conference on Number Theory and Galois Representations, SASTRA University, Kumbakonam, India, Dec 21, 2013.

Invited 45 min talk, International Conference on Algebra and Number Theory, Samsun, Turkey, Aug 7, 2014

Invited Special Session talk, SIAM Summer Meeting, Gaithersberg, Maryland, June 2015

Invited 30 minute talk, Illinois Number Theory Conference, Urbana, Aug. 2015

Invited 30 min talk, Conference on Lattice Paths Combinatorics, Cal Poly, Pomona, Aug 2015

Plenary Speaker, PANTS Conference, UNC Greensboro, Sept 2016

One hour talk, SASTRA Conference on Number Theory, Kumbakonam, India, Dec. 2016

45 minute talk, SASTRA Conference on Number Theory, Kumbakonam, India, Dec. 2017

40 min talk, Italy Conf. on Discrete Math. (DISCRETALY), Rome, Feb 2018

Opening Plenary Talk, Conf. at Penn State Univ (for 80th Birthday of George Andrews), June 2018

One hour talk, Conf. on Combinatory Analysis, Nankai Univ., China, July 2018

Invited Address, Conf. at The Royal Society to commemorate the Centenary of Ramanujan's Election as FRS, London, England, Oct. 2018

Invited Address, Ramanujan Conference, SASTRA Univ., India, Dec. 2018

Plenary Talk, Int'l Conference on Number Theory in honor of Bruce Berndt for his 80th Birthday, Univ. Illinois, Urbana, June 2019

Plenary Talk, Int'l Conference for Ramanujan's 100th Death Anniversary, Ramanujan Math Soc., India, Dec 2020

One hour talk, Int'l Number Theory Conference for the Centenary of Prof. M. V. Subbarao, IISER Pune, India, July 2021

Invited address, Conference on 100 years of Mock Theta Functions, Vanderbilt University, May 2022

Invited Talk, SASTRA Ramanujan Conference, SASTRA Univ., India, Dec 2022

<u>**REFEREED PUBLICATIONS:**</u> (Published, accepted, submitted)

1. *Sets generated by arithmetic sequences*, Proc. Indian Acad. Sci. **81 Ser A.** (1975), 245-251.
2. *On arithmetic functions and divisors of higher order*, J. Austral. Math. Soc. **23 Ser. A., Part I** (1977), 9-27.
3. (with P. Erdös), *On an additive arithmetic function*, Pacific J. Math **71, No. 2** (1977), 275-294.
4. *Analogues to the Hardy-Ramanujan theorems*, Proceedings of the Conference on Numerical Analysis and Number Theory, Publications of Matscience, Madras, India (1977).
5. *Duality between prime factors and an application to the prime number theorem for arithmetic progressions*, J. Number Theory **9** (1977), 436-451.
6. (with C. Grinstead), *On the decomposition of n! into prime powers*, J.Number Theory **9** (1977), 452-458.
7. (with P. Erdös and V.E. Hoggatt, Jr.), *On additive partitions of integers*, Discrete Math **22** (1978), 201-211.
8. (with P. Erdös), *Asymptotic behavior of large prime factors of integers*, Pacific J. Math **82** (1979), 295-315.
9. (with M.L. Robinson), *On certain irrational values of the logarithm*, Proc. Conf. on Number Theory, Carbondale, Springer Lecture Notes **751** (1979), 1-10.
10. *Legendre polynomials and irrational numbers*, Matscience Report 100, Publications of Matscience, Institute for Mathematical Sciences, Madras, India (1979).
11. (with M.L. Robinson), *Legendre polynomials and irrationality*, J. Reine Angew. Math **318** (1980), 137-155.
12. *On the probability that n and $\Omega(n)$ are relatively prime*, Fibonacci Quart. **19** (1981), 228-233.
13. *Asymptotic estimates of sums involving the Moebius function*, J. Number Theory **14** (1982), 86-98.
14. *Asymptotic estimates of sums involving the Moebius function, II*, Trans. Amer. Math. Soc. **272** (1982), 87-105.
15. *The Moebius function and integers with restricted prime factors*, Proceedings of the conference on Number Theory, Matscience Report No. 101, Publications of Matscience, Institute for Mathematical Sciences, Madras, India (1980).
16. *Distribution of $\nu(n)$ in sieve of Eratosthenes*, Quart. J. Math., Oxford **33** (1982), 129-148.
17. *Additive functions and special sets of integers*, Proc. of Third Matscience Conference on Number Theory, Mysore, India, Springer Lecture Notes **958** (1982), 1-50.
18. *The Turan-Kubilius inequality for integers without large prime factors*, J. Reine Angew. Math. **335** (1982), 180-196.

19. *A study of the moments of additive functions using Laplace transforms and sieve methods*, Proc. Fourth Matscience Number Theory Conf., Springer Lecture Notes **1122** (1985), 1-37.

20. *Moments of additive functions and sieve methods*, New York Number Theory Seminar, Springer Lecture Notes **1052** (1984), 1-25.

21. *A new application of the Sieve to Probabilistic Number Theory*, Topics in Analytic Number Theory, Proc. of Austin Number Theory Conf., Univ. Texas Press (1985), 1-27.

22. *Moments of additive functions and the sequence of shifted primes*, Pacific J. Math **118** (1985, Straus memorial issue), 261-275.

23. (with P. Erdös and J.D. Vaaler), *Multiplicative functions and small divisors*, Analytic Number Theory and Diophantine Problems, Proc. of Oklahoma Number Theory Conf., Birkhauser Progress in Math. **70** (1987), 1-13.

24. *An Erdös-Kac Theorem for integers without large prime factors*, Acta Arithmetica, Erdös 75th birthday issue **49** (1987), 81-105.

25. *Moments of additive functions and special sets*, Proc. 1986-87 Seminar on Number Theory, Universite de Bordeaux **No. 1**, 1-13.

26. (with P. Erdös and J.D. Vaaler), *Multiplicative functions and small divisors-II*, J. Number Theory **31** (1989), 183-190.

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6) *Surveys in Number Theory* (K. Alladi, Ed.), A selection of featured expositions of the 2004-05 Special Year in Number Theory at UF, **Developments in Mathematics, Vol 17, Springer, New York** (2008), 188 pages.

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10) *Partitions, q-series, and modular forms* (K. Alladi and F. Garvan, Eds.), Proc. 2008 Gainesville Conference, **Developments in Math., Volume 23, (2011) Springer, New York** 224 pages.

11) *Srinivasa Ramanujan 125* (K. Alladi, G. E. Andrews, and J. M. Borwein, Eds.), A collection of research papers for the 125-th birth anniversary of Srinivasa Ramanujan, **The Ramanujan Journal, Volume29, Springer, New York** (2012), 445 pages

12) *Quadratic and higher degree forms*, A selection of papers presented the twin 2009 conferences on quadratic and higher degree forms in Gainesville and at the 2009 Arizona Winter School on quadratic forms (K. Alladi, M. Bhargava, D. Savitt and P. H. Tiep, Eds.), **Developments in Math., Springer, Vol. 31** (2013).

13) *Ramanujan 125* (K. Alladi, F. Gravan, and A. J. Yee, Eds.), Proceedings of the Ramanujan 125 Conference held in Gainesville in Nov. 2012, **Contemporary Math. 627, AMS**, (2014).

14) *Marvin Knopp Memorial Volume* (K. Alladi, B. C. Berndt, Y. Choi, W. Pribitkin, Eds.) **The Ramanujan Journal**, Vol. 41 (2016), 562 pages

15) *George Andrews: 80 Years of Combinatory Analysis*)K. Alladi, B. C. Berndt, P. Paule, J. A. Sellers, and A. J. Yee, Eds.), **Trends in Mathematics, Birkhauser**, Basel (2021).

***NOTE:** The Ramanujan Journal (Springer) of which I am the Editor-in-Chief, comes out with special volumes from time to time and these are edited by different members of the editorial board along with guest editors, if necessary. Items 5), 7), 9), 11) above are special volumes of The Ramanujan Journal that I have edited.

OTHER WRITINGS:

For the benefit of the general public, I have contributed several articles to "The Hindu", India's National Newspaper, on Ramanujan and other mathematical luminaries whose work is connected to that of Ramanujan. Many of these articles appeared in December because Ramanujan's birthday is on December 22 and The Hindu invited me to write articles as birthday tributes.

1. *"Ramanujan-an estimation"*, The Hindu, Dec.22, 1987, Ramanujan Centennial.
2. *"Ramanujan- the second century"*, The Hindu, Dec.22, 1991.
3. *"L.J. Rogers- a contemporary of Ramanujan"*, The Hindu, Dec. 1992.
4. *"P.A. MacMahon- Ramanujan's distinguished contemporary"*, The Hindu, Dec. 1993.

5. *"Ramanujan and pi"*, The Hindu, Dec. 1994.

6. *"Fermat and Ramanujan- a comparison"*, The Hindu, Jan. 1995.

7. *"J.J. Sylvester- Ramanujan's illustrious predecessor"*, The Hindu, Dec. 1995.

8. *"Erdös and Ramanujan- legends of twentieth century mathematics"*, The Hindu, Dec. 1996.

9. *"The Ramanujan Journal- its conception, need, and place"*, The Hindu, Jan. 17, 1997.

10. *"C.G.J. Jacobi- algorist par-excellence"*, The Hindu, Dec. 1997.

11. *"Ramanujan and partitions"*, The Hindu, Dec. 1999.

12. *"Evariste Galois- founder of group theory"*, The Hindu, Dec. 2000.

13. *"Leonhard Euler- most prolific mathematician in history"*, The Hindu, Dec. 2001.

14. *"G.H. Hardy- Ramanujan's mentor"*, The Hindu, Jan. 2003.

15. *"Partitions- a play on Ramanujan"*, The Hindu, May 2003.

16. *"J.E. Littlewood-Hardy's collaborator and Ramanujan's contemporary"*, The Hindu, Dec. 2003.

17. *"Ramanujan's growing influence"*, The Hindu, Dec. 2003.

18. *"Niels Henrik Abel - Norwegian mathematical genius"*, The Hindu, Dec. 2004.

19. *"Issai Schur - Ramanujan's German contemporary"*, The Hindu, Dec 22, 2005.

20. *"Solution of a problem of Ramanujan on quadratic forms"*, The Hindu, Dec 23, 2005.

21. *"Major progress in prime number theory"*, The Hindu, Dec 25, 2006.

22. *Remembering Freman Dyson in "In Memorium: Freeman Dyson (1923-2020)"*, Notices Amer. Math. Soc. **68** (2021), 1145-1147.

23. *Askey and Ramanujan in "The Legacy of Dick Askey (1933-2019)"*, Notices of the Amer. Math. Soc. **69** (2022), 63-64.

Other publications related to Ramanujan:

(i) *A pilgrimage to Ramanujan's hometown*, Math. Assoc. of America-Focus, **26** (2006), 4-6.

(ii) *The first SASTRA Ramanujan prizes*, Math. Assoc. of America-Focus, **26** (2006), p7

(iii) *Ramanujan's thriving legacy*, Notices Amer. Math. Soc., **59** (2012), 1522-1528.

(iv) *Homage to Srinivasa Ramanujan on his 125-th birth anniversary*, Newsletter of the European Math. Soc., **88** (2013), 34-38.

(v) *Manjul Bhargava's Fields Medal and beyond*, Asia Pacific Newsletter, **4** (2014), 17-20 (Published by World Scientific)

(vi) *The 2014 SASTRA Ramanujan Prize to James Maynard*, Newsletter of the European Math. Soc., **90** (2014), 10-11

(vii) *Touched by the Goddess*, A review of the movie - The Man Who Knew Infinity", Inference - an Int'l Review of Science, **4** (2016), 13 pages

(viii) *A review of the movie The Man Who Knew Infinity*, Asia Pacific Mathematics Newsletter, **6** (2016), 29-41.

(ix) *Maryna Viazovska to receive 2017 SASTRA Ramanujan Prize*, Newsletter of the European Math. Soc., **106** (2017), 10-11.

(x) *Ramanujan in Mauritius*, Asia Pacific Mathematics Newsletter, **7** (2017), 16-20.

(xi) *The SASTRA Ramanujan Prize - its origins and its winners* Notices AMS, **66** (2019), 64-72. (Original slightly enhanced version of this article appeared in July 2019 in The Asia Pacific Mathematics Newsletter, **8** (2018), 24-37.)

Special publications for Ramanujan's 125-th birth anniversary:

The 125-th birth anniversary of the Indian mathematical genius Srinivasa Ramanujan was on December 22, 2012. In connection with that I had the following special publications in 2012-13:

(i) BOOK: The collection of all articles I have written about Ramanujan since his Centennial in 1987 including the articles in The Hindu listed above, the book reviews listed on page 11, and others, has appeared as a book:
Ramanujan's place in the world of mathematics - Essays providing a comparative study, Springer India, New Delhi (2012), 177 pp.
An expanded Second Edition (260 pp) of this book was published in 2021 (Springer)

(ii) FEATURE ARTICLE: At the invitation of the AMS, I have edited a feature article entitled
Srinivasa Ramanujan - going strong at 125.
This feature has contributions by eight mathematicians and is published in two installments in the Notices of the AMS. Part I is in the Dec 2012 issue of the Notices, vol 59, pages 1522-1537. Part II is in the Jan 2013 issue.

(iii) ARTICLE: At the invitation of the European Mathematical Society (EMS), I wrote an article entitled
Homage to Srinivasa Ramanujan on his 125-th birth anniversary
This appeared in the June 2013 issue of the Newsletter of the EMS.

ROYAL SOCIETY CONF: CENTENARY OF RAMANUJAN'S ELECTION AS FRS

To commemorate the Centenary of Ramanujan's election as Fellow of the Royal Society (FRS), there was a conference at The Royal Society, London, in October 2018. I was one of 15 invited speakers for this conference. I was invited to give a talk entitled "Ramanujan's Legacy: The work of the SASTRA Prize Winners". This is both a recognition of the Prize and of my work as Chair of the Prize Committee since the inception of the Prize in 2005. My talk a this conference appeared in the *Philosophical Transactions of the Royal Society of London* in 2020 (see Paper 78 in the list of refereed publications).

MY ACCOMPLISHMENTS IN THE LAST QUARTER CENTURY

The following is a summary of some of my major accomplishments as Chair of the Mathematics Department at the University of Florida, and as a research mathematician.

My accomplishments as Chair are described to provide an idea of what I have accomplished as an administrator. My contributions as a researcher are described to provide an idea of my scholarship.

Chairmanship 1998-2008

My primary goal when appointed Chair in 1998 was to build on existing strengths and to gain increased visibility and recognition of our research both within the university and internationally, as well as to increase the overall productivity of the Department. I accomplished all the goals I set out in 1998. The last decade 1998-2008 has been the finest for the Mathematics Department of the University of Florida in terms of research accomplishment, international visibility and faculty recognition. I provide a few highlights where my efforts and support were helpful.

Distinguished Colloquia: I created a series of annual Distinguished Colloquia -
1) The Erdös Colloquium in Pure Mathematics
2) The Ulam Colloquium in Applied Mathematics
3) The Center for Applied Mathematics Colloquium
4) The Ramanujan Colloquium (with the help of George Andrews, the sponsor)

These have been outstanding successes. By bringing world class mathematicians to campus for lectures of wide appeal, I have made students and faculty on this campus aware of important advances in mathematics. These colloquia have featured six Fields Medalists, two Abel laureates, and several members of the National Academy of Sciences.

Special Years Program: Launched in 2001-02, this program ran for six years. Each Special Year had an area of focus with a comprehensive program of conferences, workshops, courses by visiting mathematicians, and History Lectures of wide appeal. They were very well funded by the National Science Foundation (NSF), the National Security Agency (NSA), and the Number Theory Foundation (NTF). All the active research groups in the Department were involved in this program, and the research atmosphere was invigorated. The steady flow of eminent researchers and the contact with them resulted in the excellent placement of our PhDs.

The John Thompson Research Assistant Professorship: Graduate Research Professor John Thompson (winner of the Fields Medal and other international prizes) was awarded the National Medal of Science in December 2000. To suitably honor Professor Thompson, and to enhance the research atmosphere in the Department, I proposed the creation of the Thompson Research Assistant Professorship to be awarded to the best recent PhDs. This was modeled along the lines of similar postions at top universities around the nation. With support from the administration, this position was launched in 2002-03. After my term as Chair, the position was discontinued due to budget reasons.

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Hiring plan/Creation of a biomath program: During my ten year term as Chair, several excellent appointments were made in different areas. One of my first actions as Chair was to formulate a Hiring Plan. When I was appointed Chair in 1998, the size of our faculty was 55. By 2004, the size had grown to 67. In particular, it was during my term that a biomath program was initiated and developed. Our biomath group has a good record of NSF funding and helped the University get an IGERT Grant of the NSF.

Leader of AMS Chairs Workshop: The American Mathematical Society (AMS) invited me to be one of four leaders for the Mathematics Chairs Workshop conducted in conjunction with the Annual Meeting of the AMS each January. My three year term as a Workshop Leader concluded in January 2007.

Prior to this, I was invited to give a talk by the Board of Mathematical Sciences of the National Academy of Sciences, entitled "Enhancing visibility and strengthening ties with other disciplines" at their meeting in Washington DC in 2002.

Increase in research funding: During my term as Chair, the external funding received by the department increased steadily, and tripled in ten years.

Faculty recognition: I have worked hard to get our faculty and students recognized for their teaching and research. During my ten year term, faculty and graduate students in the department received teaching awards each year, and very prestigious research awards within the university. At the start of my term as Chair in 1998, I nominated my colleague John Thompson for the National Medal of Science which he received in December 2000. I was therefore invited to the award ceremony in Washington D.C. My term as Chair concluded with my colleague John Thompson winning the *Abel Prize* (known as the Nobel Prize of Mathematics) from the King of Norway in May 2008. I had the privilege of nominating Professor Thompson for the prize and was therefore invited to the prize ceremony in Oslo. I was also made one of the press contacts for the 2008 Abel Prize. The Abel Prize brought unparalleled recognition to the mathematics department and the University of Florida.

<center>**Recent research accomplishments**</center>

I am a number theorist whose research from the mid-seventies until 1989 was in analytic number theory. After the Ramanujan Centennial in 1987, the focus of my research turned to the theory of partitions and q-hypergoemetric series - a subject founded by Euler in the mid-eighteenth century. In the beginning of the twentieth century, the subject underwent a glorious transformation under the magic touch of the Indian genius Srinivasa Ramanujan. This subject has since blossomed into an exciting area of research and is now at the cross roads of number theory, combinatorics, analysis, the theory of modular forms, and Lie algebras, and has implications in computer science and physics. My research since the early nineties has been on Rogers-Ramanujan type identities. In particular, I am known for having initiated two main streams of development: (i) *the method of weighted words*, and (ii) *the theory of weighted partition identities*. The most significant achievement

was the resolution of a thirty year old problem in collaboration with Andrews and my colleague Berkovich. This work appeared in *Inventiones Mathematicae* (one of the most prestigious mathematics journals) in 2003 and was communicated by Fields Medalist Gerd Faltings. A feature article on this work appeared in the UF Research Magazine EXPLORE in fall 2000.

In the last five years, I have returned to analytic number theory for two reasons: (i) some students who desired to do their PhD under my direction wanted to work in analytic number theory, and (ii) some of my early work in analytic number theory has attracted renewed attention, and some aspects of my research have been put in a more general framework in algebraic number theory. So right now I am working both in classical analytic number theory and in the theory of partitions and q-hypergeometric series.

Contribution to the profession

THE RAMANUJAN JOURNAL

I am the Founder and Editor-in-Chief of *The Ramanujan Journal*, an international journal devoted to all areas of mathematics influenced by the Indian genius Srinivasa Ramanujan.

The spectacular discoveries of Ramanujan in the early part of the twentieth century revealed surprising and fundamental connections between many branches of mathematics. Over the years Ramanujan's work has had profound influence in many fields such as analysis, number theory, combinatorics, modular forms, physics, and computer algebra. Problems stemming from his work continue to excite researchers today and will engage their attention in the future. Thus I got the idea to launch this journal which is devoted to all areas of mathematics that have been influenced by his discoveries. Thus the journal simultaneously has a sense of focus and a wide scope because it deals with current research in all these areas. With the strong support of the international community of researchers this journal was launched in 1997 by Kluwer Academic Publishers. The journal is now published by Springer. More than 25 leading mathematicians worldwide serve on the editorial board with me. Without a doubt, in these few years, it has become the pre-eminent journal is the area of basic-hypergeometric series (q-series) and related topics - an area where Ramanujan has had tremendous influence, and is making a big impact in other areas like modular forms, number theory, and conformal field theory in physics as well.

The success of the journal can be measured by the fact that we have increased the number of issues from 4 to 12 per year, and each issue has increased from about 100 pages to 250 pages.

DEVELOPMENTS IN MATHEMATICS

Based on the success of The Ramanujan Journal, Kluwer Academic Publishers decided to launch a book series in 1998 called *Developments in Mathematics* - DEVM in short. This too is now published by Springer. I have been Series Editor for DEVM since its inception. The book series publishes refereed conference proceedings, research monographs, and contributed volumes, in all areas of mathematics. A contributed volume is a selection of invited papers on a topic of current research interest, or on a classical topic which may once again have come into the limelight

owing to new developments. As Series Editor I make recommendations as to which conference proceedings or research monographs should be included in the series. Starting in 2009, DEVM has been enhanced in scope with Hershel Farkas joining me as Series Editor. After Farkas stepped down in 2018, Pham Tiep and Loring Tu have joined me as Series Editors. DEVM has published 65 volumes since 1998.

THE SASTRA RAMANUJAN PRIZE

The Shanmugha Arts, Science, Technology, Research Academy (SASTRA), based in the state of Tamil Nadu in South India, has purchased the home of the Srinivasa Ramanujan in Kumbakonam, in order to maintain it as a museum. Thus SASTRA in playing a crucial role in the preservation of Ramanujan's legacy for posterity. At my suggestion, SASTRA has instituted a Ramanujan Prize of $10,000 to be awarded annually to a mathematician not exceeding the age of 32 for outstanding contributions in an area of mathematics influenced by the late Indian mathematical genius Srinivasa Ramanujan. Young mathematicians all over the world are eligible for this award. The age limit has been set at 32 because Ramanujan achieved so much in his brief life of 32 years, and also to encourage doctoral and post-doctoral research. I helped SASTRA set up the prize. Starting from December 2005, the SASTRA Ramanujan Prize is awarded annually. I have been Chair of the SASTRA Ramanujan Prize Committee every year since the inception of the prize in 2005. Within a few years this prize has won international acclaim. The prize has been unusually successful in recognizing outstanding young mathematicians who have gone on win prizes with a hallowed tradition (such as the Fields Medal) which have either a higher age limit, or no age limit. As Chair of the Prize Committee I serve the profession by recognizing outstanding research by very young mathematicians.

RAMANUJAN'S 125-th BIRTH ANNIVERSARY

The year 2012 was Srinivasa Ramanujan's 125-th birth anniversary and I was involved in the celebrations in many ways: (i) in organizing international conferences at the University of Florida in November and in two in India in December, (ii) in bringing out a special volume of the Ramanujan Journal (Springer), (iii) in editing a feature article in the December issue of the Notices of the AMS, and (iv) in publishing a book (Springer) consisting of a collection of my articles on Ramanujan since the Ramanujan Centennial in 1987.

A BOOK ON RAMANUJAN'S LIFE, LEGACY
AND MATHEMATICAL INFLUENCE

My latest venture is an Edited volume entitled *Srinivasa Ramanujan - his life, legacy, and mathematical influence* to be published by **Springer** in 2023. I am one of eight Editors of this volume of about 800 pages and containing about 250 articles dealing with almost everything important related to Ramanujan.

HONORARY DOCTORATE OF SASTRA UNIVERSITY

On September 18, 2022, I was awarded an *Honorary Doctorate of Science - Honoris Causa*, by SASTRA University, during their 32 Convocation, in recognition of my research and contributions to the profession.

APPENDIX: RESEARCH AS AN UNDERGRADUATE

I actually started doing research on my own as an undergraduate student in India in 1972 while at Vivekananda College of the University of Madras. I first worked on Fibonacci numbers and published a few papers in the Fibonacci Quarterly. I then worked on arithmetical functions in the theory of numbers. I presented this work at two international summer institutes:

, 1) Undergraduate participant, Institute on Number Theory, University of Michigan, Ann Arbor, Michigan (1973).

2) Undergraduate participant, Institute on Complex Analysis, International Centre for Theoretical Physics, Trieste, Italy (1975).

I also spent six weeks working with the great number theorist Kurt Mahler as a

3) Visiting Scholar, Australian National University, Canberra, Fall 1973.

My work on arithmetical functions attracted the attention Professor Paul Erdös, one of the greatest mathematicians of the twentieth century, whose life's mission was to spot talented young students and encourage them to pursue mathematics. In December 1974, Professor Erdos was attending a conference at the Indian Statistical Institute in Calcutta. My paper "A new logarithmic function" was accepted for presentation at this conference. But I could not attend the conference due to my college exams. My father Professor Alladi Ramakrishnan, who was a theoretical physicist, was going to that conference to give an hour lecture on his work. So I requested him to present my paper as well, which he did. Professor Erdös attended the talk my father gave on my work and told my father that he would like to meet me. Erdös was on his way to Sydney from Calcutta. He rerouted his flight and came to Madras to meet me. While he was in Madras for a few days, we discussed about arithmetical functions and my work in that area. I had completed one paper (see paper 2 in my bibliography) on arithmetical functions by then, which I showed him. He took it with him and wrote to me from Sydney that he spoke to Professor George Szekeres, Editor of the Journal of the Australian Mathematical Society, and that my paper will appear in that journal.

While he was in Madras, I told Professor Erdös that I had applied for admission to for graduate studies in the United States. He immediately wrote a letter and within two weeks I received the Chancellors Fellowship at UCLA for a PhD, which I accepted.

During his stay in Madras we had several discussions related to my work on what I had called as a new logarithmic function. We corresponded on this for the next couple of years. This resulted in two of my joint papers with him (papers 3 and 8 in my bibliography) that appeared in the Pacific Journal of Mathematics.

Two books on the remarkable life of Paul Erdös have been published. One of the books by Bruce Schechter starts with the chapter entitled "Traveling", in which the worldwide travels of Erdös are described. This chapter begins with a mission of Erdös to spot young mathematicians on his travels. As the first example, the author describes the story of Professor Erdös rerouting his trip to fly via Madras to meet me: *My Brain is Open - the mathematical journeys of Paul Erdös*, by Bruce Schechter, Simon and Schuster, New York (1998), 15-16.