

- A. Editor for “*The Ramanujan Journal*” published by Kluwer Academic Press.
- B. Reviewer for *Mathematical Reviews* published by American Mathematical Society. (1997-Present)
1. B.C. Berndt, *Ramanujan’s formulas for Eisenstein Series*. Number Theory and related topics, (Bombay 1988), 23-29. Reference number : 97m:11056.
  2. S. Ragahavan and S.S. Rangachari, *On Ramanujan’s Elliptic Integrals and Modular identities*. Number Theory and related topics, (Bombay 1988), 119-149. Reference number : 98b:11045.
  3. R. Blecksmith, John Brillhart, and Irving Gerst, *A constructive theory of triple and quintuple product identities of the second degree*. Math. Comp.. (To appear).
  4. S. H. Son, *Some theta function identities related to the Rogers-Ramanujan continued fraction*. Proc. of the AMS. (To appear).
  5. S. H. Son, *Some integrals of theta functions in Ramanujan’s Lost Notebook*. CRM Proceedings and Lecture Notes, Vol. 10. (To appear).
  6. Y. S. Choi, *Tenth order mock theta functions in Ramanujan’s Lost Notebook*. Invent. Math., vol. 136 (1999), no. 3, 497-569.
  7. S.Y. Kang, *Ramanujan’s formulas for the explicit evaluation of the Rogers-Ramanujan continued fraction and theta-functions* Acta Arith., vol. 90 (1999), no.1, 49-68.
  8. L.C. Shen, *On the product of three theta functions* The Ramanujan J., vol. 3 (1999), 343-357.
  9. R.P. Agarwal, *Resonance of Ramanujan’s Mathematics, Vol. III*, 1999, New Age International Publishers.
  10. Ryuji Sasaki, *Higher dimensional modular equations of degree 7*, 1999, Number Theory and its applications (Kyoto 1997), 291-302, Dev. Math., Kluwer Acad. Publ., Dordrecht.

11. Bruce C. Berndt, *Modular equations in Ramanujan's Lost Notebook*, 2000, Trends Math., Birkhäuser, Basel, 55-74.
12. Hideji Ito, *On the Modular Equation of  $j(z)^{1/3}$* , Memoirs of the Faculty of Education and Human Studies, Akita University, 55, 2000, 17-27.
13. Zhi-Guo Liu, *On certain identities of Ramanujan*, J. Number Theory, 83, 2000, no. 1, 59-75.
14. Daeyeoul Kim and Ja Kyung Koo, *Transcendental numbers as values of elliptic functions*, Bull. Korean Math. Soc. vol. 37 (2000), no. 4, 675-683.
15. Baruah, Nayandeep Deka, *A few theta-function identities and some of Ramanujan's modular equations*, Ramanujan J., 4 (2000), no. 3, 239-250.
16. Zhi-Guo Liu, *Some Eisenstein Series Identities* J. Number Theory, 85, 2000, no. 2, 231-252.
17. S.D.Gupta and X.T. She, *On Explicit Formulas for the modular equation*, Rocky Mountain Journal of Mathematics, 31 (2001), no.1, 185-195.
18. S.H. Son, *Septic theta function identities in Ramanujan's lost notebook*, Acta Arithmetica, 98, (2001), no. 4, 361-374.
19. Zhi-Guo Liu, *Some theta functions identities associated with the modular equations of degree 5*, Integers, 1, (2001), A3, 14 pp. (electronic).
20. Hideji Ito, *Two remarks on the modular polynomial of  $j(\tau)$* . Mem. Fac. Educ. Hum. Stud. Akita Univ. Nat. Sci. No. 56, (2001), 35-42.
21. Adiga C., Vasuki K.R., Naika M., *On some new identities involving integrals of theta functions*. Adv. Stud. Contemp. Math. (Pusan), 3, (2001), no. 2, 1-11.
22. Y.-S. Choi, *Tenth order mock theta functions in Ramanujan's Lost Notebook II*, Adv. Math., 156, (2000), no. 2, 180-285.

23. J. Harnad, J. McKay, *Modular solutions to equations of generalized Halphen type.*, R.Soc. Lond. Proc. Ser. A Math. Phys. Eng. Sci. 456, (2000), no. 1994, 261-294.
24. L.C. Zhang, *Explicit evaluations of a Ramanujan-Selberg continued fraction*, Proc. Amer. Math. Soc., 130, (2002), no. 1, 9–14.
25. Daeyeoul Kim and Ja Kyung Koo, *Algebraic integers as values of elliptic functions*, Acta Arith., 100, (2001), no.2, 105-116.
26. Shamita Dutta Gupta and Xiaotie She, *On the computation of the modular equation*, Advanced studies in Contemporary Mathematics, 4, (2001), No. 1, pp. 43-54.
27. Youn-Seo Choi, *Tenth order mock theta functions in Ramanujan's Lost Notebook IV*, Trans. Amer. Math. Soc. **354** (2002), no. 2, 705-733.
28. B.C. Berndt and J. Sohn, *Aysmptotic formulas for two continued fractions in Ramanujan's Lost Notebook*, J. Lond. Math. Soc. (2), 65 (2002), 271-284.
29. Nayandeep Deka Baruah, *Modular equations for Ramanujan's cubic continued fraction*, J. Math. Anal. Appl. 268 (2002), no. 1, 244-255.
30. D. Kim and J.K. Koo, *A remark of Eisenstein series and theta series*, Bull. Korean Math. Soc. 39 (2002), no. 2, 299-307.
31. S.Bhargava, C. Adiga and M.S.M. Naika, *A new class of modular equations akin to Ramanujan's P-Q eta-functions identities and some evaluations there from*, Adv. Stud. Contemp. Math. (Kyungshang) 5 (2002), no. 1, 37-48.
32. C. Adiga, K. Shivashankara, *Some Theta function identities and new explicit evaluations of Rogers-Ramanujan continued fraction*, Tamsui Oxford J. Mathematical Sciences, 18 (1) (2002) 101-117.
33. Y. Ohyama, *Differential equations for modular forms of level 3*, Funkcialaj Ekvacioj, 44 (2001) 377-389.
34. B.C. Berndt and A. Zaharescu, *An integral of Dedekind eta-functions in Ramanujan's lost notebook*, J. reine angew. Math., 551 (2002), 33-39.

35. N.D. Baruah, *On some class invariants of Ramanujan*, J. of the Indian Math. Soc., 68, nos 1–4 (2001), 113-131.
- C. Reviewer for *Zentralblatt MATH* published by Springer-Verlag. (1999-Present)
1. S. Y. Kang, *Some theorems on the Rogers-Ramanujan continued fraction and associated theta function identities in Ramanujan's Lost Notebook*. The Ramanujan Journal, Vol. 3, No. 1, 91-111 (1999).
  2. Remy Y. Denis, *On certain q-series and continued fractions of Ramanujan* Special Functions and differential equations. Proceedings of a workshop, WSSF 97, Madras, India, Jan. 13-24, 1997. New Delhi: Allied Publishers Pte. Ltd., 138-145 (1998).
  3. Frank G. Garvan, *Modular functions, MAPLE and Andrews' 10th problem*. In Topics in Number Theory, Proceedings of the conference in honor of B. Gordon and S. Chowla, Penn. State University, Kluwer Academic Publishers, Math. Appl. Dordr. 467, 163-179 (1999).
  4. S.Y. Kang, *Ramanujan's formulas for the explicit evaluation of the Rogers-Ramanujan continued fraction and theta-functions* Acta Arith., vol. 90 (1999), no.1, 49-68.
  5. M. D. Hirschhorn and J. A. Sellers, *Some parity results for 16-cores*. The Ramanujan Journal, vol. 3 (1999), 281–296.
  6. S. Ahlgren and K. Ono, *A Gaussian hypergeometric series evaluation and Apéry number congruences*, J. reine angew. Math., vol. 518 (2000), 187-212.
  7. M.A. Vsemirov, *Macdonald identities and multidimensional theta-functions*, J. Math. Sci., New York 96, No. 5, 3486-3492, (1999).
  8. Richard Lewis and Zhi-Guo Liu, *On two identities of Ramanujan*, Ramanujan J. 3, No.3, 335-338 (1999).
  9. Zhi-Guo Liu, *Some Eisenstein Series Identities* J. Number Theory, 85, 2000, no. 2, 231-252.

10. H.M. Farkas, Irwin Kra, *Ramanujan partition identities*, Complex Geometry of groups, Proceedings of the 1st Iberoamerican congress on geometry, Olmué, Chile, Jan. 5-11, 1998. Contemp. Math., 240, 111-130 (1999).
11. H.M. Farkas, Irwin Kra, *A function theoretic approach to the Ramanujan partition identities with applications to combinatorial number theory*, Complex Geometry of groups, Proceedings of the 1st Iberoamerican congress on geometry, Olmué, Chile, Jan. 5-11, 1998. Contemp. Math., 240, 131-157 (1999).
12. Baruah, Nayandeep Deka, *A few theta-function identities and some of Ramanujan's modular equations*, Ramanujan J., 4 (2000), no. 3, 239-250.
13. Andrews, George E., *Some debt I owe*, Sémin. Lothar. Comb. 42, B42a, 16 p. (1999).
14. S. Ahlgren, *Multiplicative relations in powers of Euler's product*, J. Number Theory, 89, (2001) 222-233.
15. M.D. Hirschhorn, *Winqvist and the Atkin-Swinnerton-Dyer partition congruences for modulus 11*, Australas. J. Comb. 22, 101-104 (2000).
16. M.D. Hirschhorn, *Parity results for certain partition functions*, Ramanujan J. 4, No. 2, 129-135 (2000).
17. S. Cooper, M.D. Hirschhorn, and R.P. Lewis, *Powers of Euler's product and related identities*, Ramanujan J. 4., No. 2, 137-155 (2000).
18. L.C. Zhang, *Explicit evaluations of a Ramanujan-Selberg continued fraction*, Proc. Amer. Math. Soc., 130, (2002), no. 1, 9-14.
19. P. Barrucand, S. Cooper and M. Hirschhorn, *Relations between squares and triangles*, Discrete Math., 248, No. 1-3, 245-247 (2002).

20. H. S. Madhusudhan, M.S. Mahadeva Naika and K.R. Vasuki, *On Some Ramanujan's P-Q identities*, Hardy-Ramanujan Journal, 24, 3-10 (2001).
  21. Nayandeep Deka Baruah, *Modular equations for Ramanujan's cubic continued fraction*, J. Math. Anal. Appl. 268 (2002), no. 1, 244-255.
  22. S. Cooper, *On the sums of an even number of squares and an even number of triangular numbers: An elementary approach based on Ramanujan's  ${}_1\psi_1$  summation formula*, Cont. Math. 291 (2001), 115-137.
  23. S. Corteel and J. Lovejoy, *Frobenius partitions and the combinatorics of Ramanujan's  ${}_1\psi_1$  summation formula*, J. Comb. Theory (series A), 97, (2002) 177-183.
  24. J. Lovejoy, *Divisibility and distribution of partitions into distinct parts*, Adv. in Math., 158 (2001), 253-263.
  25. M. Craig, *Argument inversion for modified theta functions*, Aust. Math. Soc. Gaz. 28, No. 2, 71-76 (2001).
  26. J. Lovejoy, *Lacunary partition functions*, Math. Res. Letters, 9, 191-198 (2002).
  27. D. Stanton, *The Bailey-Rogers-Ramanujan group*, Contemporary Mathematics, 291, 55-70 (2001).
  28. P. Barrucand, S. Cooper, and M.D. Hirschhorn, *Results of Hurwitz type for five or more squares*, The Ramanujan J., 6, 347-367, (2002).
- D. Serve as a referee for various international Journals. (1995–Present) **Papers refereed (Titles of articles are confidential).**

1995:

- (i) Journal of Number Theory (1 article).
- (ii) Glasgow Math. Journal (1 article).

1996:

- (i) International Journal of Mathematics and Mathematical Sciences (1 article).
- (ii) Proceedings of the Halberstam retirement conference (1 article).

1997 :

- (i) Chinese Journal of Mathematics (Taiwan) (3 articles).
- (ii) The Ramanujan Journal (1 article).
- (iii) Proceedings of the Kyoto Conference “Number Theory and its applications” (1 article).

1998:

- (i) The Ramanujan Journal (1 article).
- (ii) Bulletin of the Malaysian Mathematical Society (1 article).

1999:

- (i) Journal of Computational and Applied Mathematics (1 article).
- (ii) Journal of Combinatorial Theory (1 article).
- (iii) Journal of Number Theory (1 article)

2000:

- (i) Journal of Number Theory (1 article)
- (ii) International Journal of Mathematics and Mathematical Sciences (1 article)
- (iii) Proceedings of  $q$ -series Conference at University of Florida (November,1999) (1 article)

- (iv) Proceedings of  $q$ -series Conference at University of Illinois at Urbana Champaign (October, 2000) (1 article)

2001:

- (i) The Ramanujan Journal (3 article)
- (ii) Proceedings of Conference on Number Theory and Discrete Mathematics in honour of Srinivasa Ramanujan in Chandigarh, from October 2-6, 2000, Panjab University (August 2000) (1 article)
- (iii) Acta Arithmetica (2 articles).
- (iv) International Journal of Mathematics and Mathematical Sciences (2 articles).
- (v) Kobe Journal of Mathematics (1 article).
- (vi) Discrete Mathematics (1 article).

2002:

- (i) Discrete Mathematics (1 article).
- (ii) Journal of Korean Mathematical Society (1 article).
- (iii) Acta Arithmetica (1 articles).
- (iv) The Ramanujan Journal (1 article).
- (v) Transactions of the American Mathematical Society (1 article).
- (vi) Journal of Mathematical Physics (1 article).

2003:

- (i) Acta Arithmetica (1 article)

## Other Services

### I. Service as Advisor

1. Academic Advisor for Arts and Social Sciences students majoring in Mathematics (1997 – Present)
2. Strategic Planning Committee (member, 2000-Present)
3. Curriculum Committee (member, 2001– )

## II. Examiner

1. Advisor for Science Research Programme (1997). Project title : Riemann Zeta Function and the Prime Number Theorem.
2. Examiner for Honours Project. Project title : Magic squares. (1997)
3. Advisor for Undergraduate Research Opportunities Programme in Science. Project title : Representations of integers as a sum of squares. (1998)
4. Examiner for Undergraduate Research Opportunities Programme in Science. Project title : Cyclotomic Numbers (1998)
5. Examiner for Honours Project. Project title : Introduction to Homological Algebra. (2001)
6. Advisor for Honours Project. Project title : Modular functions and Approximations to  $\pi$  . (2001)
7. Examiner for Undergraduate Research Opportunities Programme in Science. Project title : The Mathematics of Astrology (2001)
8. Examiner for Undergraduate Research Opportunities Programme in Science. Project title : Linear Codes. (2000)
9. Examiner for PhD Qualifying Examination (2001). (Algebra Section).

10. External Examiner for the Master thesis of Ho Kwan Hung, title “On the prime twins conjecture and almost-prime  $k$ -tuples”, University of Hong Kong (2003).

### III. Outreach Activities

1. Evaluator for the National Science Talent Search, Preliminary Round (1999)
2. Public Lecture at National Junior College, 2001. Title : *On the Bernoulli Numbers*.
3. Public Lecture at Tampines Junior College, 1999. Title : *The Arithmetic Geometric Mean, Hypergeometric series and  $\pi$* .
4. Problems contributor for Singapore Mathematical Society Mathematics Competitions. (1998-2001)