

(August 2018)

CURRICULUM VITAE

HOSSEIN BEHFOROZ

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OFFICE

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EDUCATION

- Ph.D. 1980** Brunel, The University of West London, Uxbridge, England.
Dissertation: *Cubic and Quintic Spline Polynomial Interpolation*.
Advisor: Professor Nick Papamichael. Area: Approximation Theory.
- M.S. 1976** Brunel, The University of West London, Uxbridge, England.
Dissertation: *Interpolating Spline Functions*.
Advisor: Professor Nick Papamichael. Area: Numerical Analysis.
- M.S. 1970** Institute of Mathematics, Teachers Training University, Tehran, Iran.
Dissertation: *Topics in Complex Functions*.
Advisor: Professor G. Mosaheb. Area: Advanced Pure Mathematics.
- B.S. 1968** Tehran University, Tehran, Iran. (Mathematics).

ACADEMIC POSITIONS

- July 2005 to present:** Chair of Mathematics Department, Utica College.
- June 1996 to present:** Professor of Mathematics, Utica College.
- July 1991 to May 1996:** Associate Professor of Mathematics, Utica College.
- Sept. 1987 to June 1991:** Assistant Professor of Mathematics, Utica College.
- July 1993 to May 1996:** Chair of Mathematics Department, Utica College.
- Jan. 1987 to May 1987:** Adjunct faculty, Mathematics, Fordham University, New York.
- June 1982 to Sept. 1986:** Assistant Chair of Math Department, Tabriz University, Iran.
- Jan. 1983 to Sept. 1986:** Associate Professor of Mathematics, Tabriz University, Iran.

COURSES TAUGHT

College Algebra	Differential Equations	Abstract Algebra
Finite Mathematics	Logic and Set Theory	Linear Algebra
Basic Statistics	Advanced Calculus	Numerical Analysis
Pre-calculus	Foundations of Math.	Engineering Mathematics
Calculus (I)-(IV)	Modern Mathematics	Real Analysis
Math. for Bus./Eco.	Number Theory	Complex Analysis

RESEARCH INTERESTS

Spline Functions. Applications of Spline Functions in Solving ODE, PDE, Integral Equations and Fuzzy Data. Multivariate Spline Functions and Their Applications. Harmonic Series. Also in Recreational Mathematics, Magic Squares, Knight Tours and Sudoku Puzzles.

PUBLICATIONS

(I) PAPERS

- [1] **Behforooz, Hossein:** Magic Squares with Triangular Numbers, under preparation.
- [2] **Behforooz, Hossein,** Playing with Continued Radicals, submitted for publication.
- [3] **Behforooz, Hossein,** Leaning Tower of Powers, submitted for publication.
- [4] **Behforooz, Hossein, Mijiddorj, R. and Zhanlav, T.:** On the Approximation of Inverse of some Band Matrices and their Applications in Local Splines, Journal of the Communications in Numerical Analysis, No. 1, (2018) 56-65.
- [5] **Behforooz, Hossein, Abbasbandy S., and Ezzati R.:** Interpolation of Fuzzy Data by Using Flat End Splines, International Journal of Mathematical Sciences, Vol. 8, No. 2 (2017) 89-97.
- [6] **Behforooz, Hossein, Moghaddam, B. P. and Machado, J. A. T.:** An Integro Quadratic Spline Approach for a Class of Variable-order Fractional Boundary Value Problems, Journal of Chaos, Solitons and Fractals, No. (2017), 1-7.
- [7] **Behforooz, Hossein:** Some Notes on the Evaluation of Magic Sums of Magic Squares. Topics in Recreational Mathematics, No. 2, (2016), 15-26.

- [8] **Behforooz, Hossein, Mijiddorj, R. and Zhanlav, T.:** Construction of Local Integro Quintic Splines, Communications in Numerical Analysis, No. 2 (2016) 167-179.
- [9] **Behforooz, Hossein:** Linear Algebra Properties of Magic Squares, Topics in Recreational Mathematics, No.1, February 2016, 18-23.
- [10] **Behforooz, Hossein:** Behforooz Calendrical Magic Squares from Dates on Calendars, Topics in Recreational Mathematics, Vol. 3, 69-79, March 2015.
- [11] **Behforooz, Hossein, Abbasbandy S., and Ezzati R.:** Interpolation of Fuzzy Data by Using Quartic Polynomials Induced from E (3) Cubic Splines, Journal of Mathematical Sciences, Springer Open Journal, Vol. 6 (40), 2013.
- [12] **Behforooz, Hossein:** Weighted Magic Squares, Journal of Recreational Mathematics, Vol. 36, No. 4 (2007) 283-286.
- [13] **Behforooz, Hossein:** Behforooz Magic Squares Derived from Magic-Latin-Sudoku Squares, Journal of Recreational Mathematics, Vol. 36, No. 4 (2007) 287-293.
- [14] **Behforooz, Hossein, Abbasbandy S., and Ezzati R.:** *Interpolation of Fuzzy Data by E (3) Cubic Splines*, International Journal of Pure and Applied Mathematics, Vol. 60, No. 4 (2010) 383-392.
- [15] **Behforooz, Hossein:** *Approximation by Integro Quintic Spline* J. of Appl. Math and Comput. Vol. 216 (2010) 364-367.
- [16] **Behforooz Hossein:** *Behforooz-Euler Magic Squares with U.S. Election Years*, Journal of Recreational Mathematics, Vol. 35, No. 1 (2009) 20-22.
- [17] **Behforooz, Hossein:** *Behforooz-Franklin Magic Square with U.S. Election Years*, Journal of Recreational Mathematics, Vol. 35, No. 1 (2009) 37-38.
- [18] **Behforooz, Hossein:** *On Constructing 4 by 4 Magic Squares with Pre-Assigned Magic Sum*, J. of Mathematical Spectrum, Vol. 40, No. 3 (2008) 127-134.
- [19] **Behforooz, Hossein, Abbasbandy S., and Ezzati R.:** *Interpolation of Fuzzy Data by Using Fuzzy Splines*, International J. of Uncertainty, Fuzziness and Knowledge-Based Systems, Vol. 16, No. 1 (2008) 107-115.
- [20] **Behforooz, Hossein:** *On the Divergence of p-like Series with $p > 1$* . J. of Mathematical Spectrum, Vol. 40, No. 1 (2008) 9-16.

- [21] **Behforooz, Hossein:** *Mirror Magic Squares from Latin Squares*, J. of Mathematical Gazette, Vol. 91, No. 521 (2007) 316-321.
- [22] **Behforooz, Hossein:** *Approximation by Integro Cubic Spline*, J. of Appl. Math and Comput. Vol. 175 (2006) 8-15.
- [23] **Behforooz, Hossein:** *Permutation Free Magic Squares*, Journal of Recreational Mathematics, Vol. 33, No. 2 (2005) 103-106.
- [24] **Behforooz, Hossein:** *Behforooz-Franklin 32 by 32 Magic Square*, Journal of Recreational Mathematics, Vol. 33, No. 2 (2005) 107-110.
- [25] **Behforooz, Hossein:** *There is Magic in Them*, A Brief Introduction to Magic Squares, Inside UC Newsletter, May 2005.
- [26] **Behforooz, Hossein:** *Mystery in a Box, Another discussion on Magic Squares*, Pioneer, A Magazine of Utica College, Spring 2005.
- [27] **Behforooz, Hossein:** *On the Use of Spline-on-Spline for the Approximation of Cauchy Principal Value Integrals*, J. of Appl. Maths and Comput. Vol. 80 (1996) 23-32.
- [28] **Behforooz, Hossein:** *Consistency Relations of the Spline Functions Derived from a Pascal-like Triangle*. J. of Appl. Maths and Comput. Vol. 74 (1996) 293-297.
- [29] **Behforooz, Hossein:** *A Comparison of the E (3) and Not-a-knot Cubic Splines*, J. of Appl. Maths and Comput, Vol. 72 (1995) 219-223.
- [30] **Behforooz, Hossein:** *On the Thinning out the Harmonic Series*, Mathematics Magazine of the Mathematical Association of America, Vol. 68, No. 4 (1995) 289-293.
- [31] **Behforooz, Hossein:** *A New Approach to the Spline Functions*, J. of Appl. Numer. Maths, Vol. 13 (1993) 271-276.
- [32] **Behforooz, Hossein:** *The Not-a-Knot Piecewise Interpolatory Cubic Polynomial*, J. of Appl. Maths and Comput. Vol. 52 (1992) 29-35.
- [33] **Behforooz, Hossein:** *Approximation of Cauchy Principal Value Integrals by Piecewise Hermite Quartic Polynomials Induced by Cubic Spline*, Appl. Math. Lett. Vol. 5, No. 1 (1992) 75-78.
- [34] **Behforooz, Hossein:** *Manifold Subbotin Spline*, J. of Appl. Maths and Comput. Vol. 40 (1990) 224-231.

- [35] **Behforooz, Hossein:** *End Conditions for Cubic Spline Interpolation Derived from Integration*, J. of Appl. Maths and Comput. Vol. 29 (1989) 231-244.
- [36] **Behforooz, Hossein:** *Another Approach to the Quintic Splines*, Appl. Math. Lett. Vol. 1, No. 4 (1988) 335-338.
- [37] **Behforooz, Hossein:** *Quadratic Spline-On-Spline*, Appl. Math. Lett. Vol. 1, No. 3 (1988) 217-218.
- [38] **Behforooz, Hossein and Papamichael, N.:** *Overconvergence Properties of Quintic Interpolatory Splines*, J. of Computer and Applied Mathematics, Vol. 24, No. 3 (1988) 337-347.
- [39] **Behforooz, Hossein:** *Quadratic Spline*, Appl. Math. Lett. Volume 1, No. 2 (1988) 177-180.
- [40] **Behforooz, Hossein and Papamichael, N.:** *End Conditions for Interpolatory Quintic Spline*, IMA Journal of Numer. Anal. Vol. 1 (1981) 81-93.
- [41] **Behforooz, Hossein and Papamichael, N. and Worsey, A. J.:** *A Class of Piecewise Cubic Interpolatory Polynomials*, J. Inst Maths Applies, Vol. 25 (1980) 53-65.
- [42] **Behforooz, Hossein and Papamichael, N.:** *End Conditions for Interpolatory Cubic splines with Unequally Spaced Knots*, J. of Comp. and Applied Maths, Vol. 6, No.1 (1980) 59-65.
- [43] **Behforooz, Hossein and Papamichael, N.:** *Improved Orders of Approximation Derived from Interpolatory Cubic Spline*, BIT, Vol. 19 (1979) 19-26.
- [44] **Behforooz, Hossein and Papamichael, N.:** *End Conditions for Cubic Spline Interpolation*, J. Math Applies, Vol. 23 (1979) 355-366.

(II) ABSTRACTS: (Published in Abstracts or Proceedings of Mathematics Meetings)

- [1] **Behforooz, Hossein:** Playing with Radicals and Iterated Exponents, Abstracts and Proceedings of International Conference on Mathematics: An Istanbul Meeting for World Mathematicians, July 2018, Turkey.
- [2] **Behforooz, Hossein:** Recent Developments on Approximation by Spline Functions, Abstracts of International Conference on Mathematics: An Istanbul Meeting for World Mathematicians, July 2018, Turkey.

- [3] **Behforooz, Hossein:** New Techniques on the Convergence of the Nested Radicals and Iterated Exponents, Abstracts of International Congress of Mathematicians, ICM 2018, August 2018, Rio De Janeiro, Brazil.
- [4] **Behforooz, Hossein:** Playing with Radicals, Abstract of the Joint Mathematics Meeting, San Diego, CA, January 2018, page 480.
- [5] **Behforooz, Hossein:** Linear Algebra of Magic Squares, Abstracts of the MAA Seaway Section Meeting, SUNY Oswego, April 2017.
- [6] **Behforooz, Hossein:** Linear Algebra Properties of Magic Squares, Abstract of the Joint Mathematics Meeting, Atlanta, GA, January 2017, page 405.
- [7] **Behforooz, Hossein:** On the Artistic Aspects of Magic Squares, Abstracts of the Bridges 2016 Conference, University of Jyvaskyla, Finland, August 2016.
- [8] **Behforooz, Hossein:** Interesting Artworks on Magic Squares, Abstract of the Joint Mathematics Meeting, Seattle, WA, January 2016, page 414.
- [9] **Behforooz, Hossein:** On the Celebration of the 500th Birthday of Melancholia I and the Durer Magic Square, Abstracts of the MAA Seaway Section Meeting, St. Lawrence University, November 2015.
- [10] **Behforooz, Hossein:** On the Celebration of the 500th Birthday of Melancholia I and the Durer Magic Square Abstracts of the Recreational Mathematics Conference held at the National Museum of Mathematics, New York City, August 2015.
- [11] **Behforooz, Hossein:** Some Notes on the calculations of the Continued Exponents, Abstracts of International Conference on Mathematics and Statistics, Athens, Greece, July 2015.
- [12] **Behforooz, Hossein:** Interesting Artworks on Magic Squares, Abstract of the Joint Mathematics Meeting, San Antonio, TX, January 2015, page 336.
- [13] **Behforooz, Hossein:** On the Recent Developments of Magic Squares in Physics and Engineering, Abstract of the International Congress of Mathematicians, Seoul, Korea, August 2014.
- [14] **Behforooz, Hossein:** Interesting Artworks on Magic Squares Exponentials, Abstract of the Joint Mathematics Meeting, Baltimore, January 2014, page 375.
- [15] **Behforooz, Hossein:** Weighted Magic Squares, Stars and Circles, Abstracts of the Bridges Enschede 2013 Conference, held at the Saxion University, The Netherland, August 2013.

- [16] **Behforooz, Hossein:** Some Notes on the Calculation of the Continued Exponentials, Abstract of the Joint Mathematics Meeting, San Diego, January 2013.
- [17] **Behforooz, Hossein:** Weighted Magic Squares, Abstract of the MAA Summer Math Fest Meeting, Lexington, KT, August 2011.
- [18] **Behforooz, Hossein:** Approximation by Spline Functions Derived from Slopes and Integral Values: Abstracts of the International Congress of Mathematicians (ICM-2010), Hyderabad, India, August 2010, page 537.
- [19] **Behforooz, Hossein:** *Some Interesting Notes on the Calculation of the Continued Exponents*, Abstracts of the Spring Meeting of the Seaway Section of MAA, SUNY, Oswego, New York, April, 23-24, 2010.
- [20] **Behforooz, Hossein:** *How Difficult is Writing in Mathematics*. Abstracts of the Summer Math Fest Meeting of MAA, Portland, OR, August 2009.
- [21] **Behforooz, Hossein:** *Mathematical Thinking with Magic Squares*, Abstracts of the Summer Math Fest Meeting of MAA, Madison, WI, August 2008.
- [22] **Behforooz, Hossein:** *New Techniques to Construct Spline Functions by Using Derivative and Integral Values*, Proceedings of the ICMTD 2007 (International Conference on Mathematics: Trends and Developments), held at Ain Shams University, Cairo, Egypt, December 2007, pp 261-267.
- [23] **Behforooz, Hossein:** *On the Gallery of my own Magic Squares*, Abstracts of the Mathematical Association of America (MAA) Seaway Section, Spring Meeting SUNY College at Oneonta, New York, April 27-28, 2007.
- [24] **Behforooz, Hossein:** *All Three Squares in One: Magic Squares, Latin Squares and Sudoku Squares*, Abstracts of the International Congress of Mathematicians (ICM-2006), Daily Newsletter, Madrid, Spain, August 2006.
- [25] **Behforooz, Hossein:** *To Converge or not to Converge that is the Question*, Abstracts of the 31st Annual New York State Regional Graduate Mathematics Conference at Syracuse University, April 8-9, 2005.
- [26] **Behforooz, Hossein:** *On the divergence of the p -series when $p > 1$* , Abstracts of the Spring Meeting of the Seaway Section of MAA, Queen's University, Canada, April 1-2, 2005.
- [27] **Behforooz, Hossein:** *Give Me any Integer M , and I give You Back a Magic Square with Magic Sum M* , Abstracts of the Summer Math Fest Meeting of MAA, Providence, RI, August 2004.

- [28] **Behforooz, Hossein:** *Another Look at the Magic Squares and the Knight Tours*, Presented at the Utica College Nexus Seminars, October 2003
- [29] **Behforooz, Hossein:** *Historical Notes with Interesting Properties of Some Famous Magic Squares*, Abstracts of the Summer Math Fest Meeting of MAA, University of Colorado at Boulder, August 2003.
- [30] **Behforooz, Hossein:** *An Extension of Benjamin Franklin Magic Squares*, Abstracts of the International Congress of Mathematicians (ICM-2002), Beijing, China, August 2002.
- [31] **Behforooz, Hossein:** *The Role of Writing in Mathematics*, Abstracts of the MAA Seaway Section Meeting, Brock University, Ontario, Canada, November 2001.
- [32] **Behforooz, Hossein:** *A Curious Convergent Series with Reciprocals of Primes*, Abstracts of the International Congress of Mathematicians (ICM-1998), Berlin, Germany, August 1998.
- [33] **Behforooz, Hossein:** *Interesting Subseries of the Harmonic Series*, Abstracts of the 21st Annual New York Regional Graduate Mathematics Conference, Syracuse University, March 24-25, 1995.
- [34] **Behforooz, Hossein:** *On the improvement of estimating of Cauchy Principal Value Integrals by using manifold splines*, Abstracts of the International Congress of Mathematicians (ICM-1994) Zurich, Switzerland, August 3-11, 1994.
- [35] **Behforooz, Hossein:** *Teaching Calculus in Nonhomogeneous Classes*, Abstracts of the International Congress on Mathematical Education (ICME-7), Laval University, Quebec, Canada, August 1992.
- [36] **Behforooz, Hossein:** *Numerical Approximation of Cauchy Principal Value Integrals by Interpolatory Piecewise Polynomials*, Abstracts of the Mathematical Association of America (MAA) Seaway Section, Spring Meeting, State University of New York at Oneonta, April 1991.
- [37] **Behforooz, Hossein:** *A Class of End Conditions for Spline Functions Obtained from Integration*, Abstracts of the International Congress of Mathematicians (ICM-1990), Kyoto, Japan, August 1990.
- [38] **Behforooz, Hossein:** *End Conditions for the Spline Functions Derived from Integration*, Abstracts of the Mathematical Association of America (MAA) Seaway Section, Spring Meeting, Union College, April 1989.
- [39] **Behforooz, Hossein:** *On the Divergence of the Euler Series*, Abstracts of

the Mathematical Association of America (MAA) Seaway Section, Fall Meeting, Syracuse University, November 1988.

- [40] **Behforooz, Hossein:** *Superconvergence Properties of Quintic Interpolatory Splines*, Abstracts of the International Congress of Mathematicians (ICM-1986), Berkeley University, California, August 1986.

(III) BOOKS I have translated the following mathematical text books to Persian (Farsi). Items 1,2,3,5 are collaborative efforts. Four of these books (#'s 1, 2, 3, 4) were published in Iran in 1980's.

- [1] **The Theory of Numbers:** Neal H. McCoy, Macmillan Company, (1965).
- [2] **Theory and Applications of Numerical Analysis:** G. M. Phillips, and P. J. Taylor, Academic Press, (1980).
- [3] **Exercises in Set Theory:** L. E. Sigler, Princeton University Press.
- [4] **Elementary Differential Equations:** (6th ed. & 10th printing), Lyman M. Kells, McGraw-Hill, (1981).
- [5] **Matrix Methods for Engineers and Scientists:** Stephen Barnett, McGraw-Hill, (1979).
- [6] **Problems in Group Theory:** John D. Dixon, Dover, (1978).
- [7] **Collected Problems in Numerical Methods:** M. P. Cherkasova, Wolter-Noordhoff, (1972).
- [8] **Some Topics in Complex Analysis:** Edgar Giraldu Phillips, Pergamon Press, (1966).
- [9] **Problems in Differential Geometry and Topology:** A. S. Mishchenko, Yu, P. Solovyev, and A. T. Fomenko, Mir Publishers, (1985).

ACADEMIC ACTIVITIES

(I) Lectures, Conferences, Meetings, Seminars, Workshops

- * Attended and presented a paper at the International Congress of Mathematicians, (ICM2018) Rio De Janeiro, Brazil, August 2018.
- * Attended and presented two papers at the International Conference on Mathematics,

An Istanbul Meeting for World Mathematicians, July 2018, Turkey.

- * Mathematics Editor of book “Approximation by Integro Splines”, Zhanlav Tugal, Mijiddorj Renchin-Ochir, Summer 2018, BIT Press, ISBN: 978-99978-53-52-3.
- * Attended and presented a lecture at the Annual Joint Meeting of the American Mathematical Society (AMS) and Mathematical Association of America (MAA), San Diego, CA, January 2018.
- * Presented a talk on the “Recent Developments on Magic Squares”, Invited speaker at Conversation in Mathematics, Mathematics Department, RIT, November 2017.
- * Attended and presented a lecture and a workshop at the Mathematics Various Entertaining Subjects (Conference on Recreational Mathematics) held at the National Museum of Mathematics, New York City, August 2017.
- * Attended and presented a talk and a Mathematics Magic Show at the Spring Meeting of the Seaway Section of the Mathematical Association of America (MAA), SUNY at Oswego, Oswego, NY, April, 2017.
- * Attended and presented a lecture at the Annual Joint Meeting of the American Mathematical Society (AMS) and Mathematical Association of America (MAA), Atlanta, GA, January 2017.
- * Attended and presented a talk and a workshop on Public Day at the Bridges Conference on Mathematics, Music, Arts and Culture, held at the University of Jyväskylä, Finland, August 2016.
- * Attended and presented a lecture at the Annual Joint Meeting of the American Mathematical Society (AMS) and Mathematical Association of America (MAA), Seattle, WA, January 2016.
- * Attended and presented a talk at the Fall Meeting of the Seaway Section of the Mathematical Association of America (MAA), St. Lawrence University, Canton, NY November, 2015.
- * Presented a lecture at the UC Faculty Research Day Seminar, Fall 2015.
- * Attended and presented a lecture and a workshop at the Mathematics Various Entertaining Subjects (Conference on Recreational Mathematics) held at the National Museum of Mathematics, New York City, August 2015.
- * Presented a lecture at the University of Cyprus, Cyprus, July 2015.
- * Attended and presented a lecture at the International Conference on Mathematics and Statistics, held at the Athens Institute for Education and Research, Athens, Greece,

June 2015.

- * Attended and presented a lecture at the Annual Joint Meeting of the American Mathematical Society (AMS) and Mathematical Association of America (MAA), \ San Antonio, TX, January 2015.
- * Attended the Bridges Conference on Mathematics, Music, Arts and Culture, held at the Gwacheon National Science Museum, Seoul, Korea, August 2014.
- * Attended and presented a paper at the International Congress of Mathematicians, Seoul, Korea, August 2014.
- * Attended and presented a talk at the Spring Meeting of the Seaway Section of Mathematical Association of America (MAA), Buffalo State College, April 2014.
- * Presented a talk at the 39th New York State Regional mathematics Meeting, Syracuse University, April 2014.
- * Presented a talk to the member of Utica College Math Club members, April 2014.
- * Attended and presented a lecture at the Annual Joint Meeting of the American Mathematical Society (AMS) and Mathematical Association of America (MAA), \ Baltimore, MD, January 2014.
- * Presented a talk at the Utica College Faculty Research Day Seminar, Fall 2013.
- * Presented a talk at the Utica College Math Club Meeting, Fall 2013
- * Attended and presented a talk at the Fall Meeting of the Seaway Section of the Mathematical Association of America (MAA), SUNY at Potsdam, October 2013.
- * Attended and presented a lecture at the Bridges Enschede 2013 Conference, held at the Saxion University, The Netherland, August 2013.
- * Presented a talk at the Utica College Nexus Seminar, New Developments in Magic Squares, spring 2013.
- * Attended and presented a lecture at the Annual Joint Meeting of the American Mathematical Society (AMS) and Mathematical Association of America (MAA), San Diego, CA, January 2013.
- * Attended the Fall Meeting of the Seaway Section of the Mathematical Association of America (MAA), Elmira College, October 2012.
- * Presented a talk at the Utica College Faculty Research Day, October 2012

- * Attended the Spring Meeting of the Seaway Section of the Mathematical Association of America (MAA), Hamilton College, April 2012.
- * Attended the Annual Joint Meeting of the American Mathematical Society (AMS) and Mathematical Association of America (MAA), Boston, MA, January 2012.
- * Attended the Annual Joint Meeting of the American Mathematical Society (AMS) and Mathematical Association of America (MAA), New Orleans, LA, January 2011.
- * Participated and presented a talk at the International Congress of Mathematicians (ICM-2010), Hyderabad, India, August 2010.
- * Attended and presented a talk at the Spring Meeting of Seaway Section of the Mathematical Association of America (MAA), SUNY, Oswego, April 2010.
- * Attended the Annual Joint Meeting of the American Mathematical Society (AMS) and Mathematical Association of America (MAA), San Francisco, CA, January 2010.
- * Attended and presented a paper at the Annual Summer Math Fest Meeting of the Mathematical Association of America (MAA), Portland, Oregon, August 2009.
- * Presented a talk at the Utica College Faculty Research Day, October 2008.
- * Attended and presented a paper at the Annual Summer Math Fest Meeting of the Mathematical Association of America (MAA), Madison, Wisconsin, August 2008.
- * Attended at the Spring Meeting of Seaway Section of the Mathematical Association of America (MAA), Syracuse University, April 11-12, 2008.
- * Participated and presented a talk at the ICMTD 2007 (International Conference on Mathematics: Trends and Developments), held at Ain Shams University, Cairo, Egypt, December 2007.
- * Presented a lecture titled "*Home Grown Magic Squares with Amazing Properties*", Utica College Nexus Seminars, October 2007.
- * Presented a lecture titled "*Another Look at the Euler Sums on his 300th Birthday*", Utica College Mathematics, Computer Science and Physics Colloquium, April 2007.
- * Attended and presented a paper at the Spring Meeting of Seaway Section of the Mathematical Association of America (MAA), SUNY College at Oneonta, April 27-28, 2007.
- * Keynote Speaker at the 21st Annual Mathematics Awards Ceremony at Clinton Central School, Clinton, New York, April 4, 2007.

- * Attended the Annual Joint Meeting of the American Mathematical Society (AMS) and Mathematical Association of America (MAA), New Orleans, LA, January 2007.
- * Participated and presented a talk at the International Congress of Mathematicians (ICM-2006), Madrid, Spain, August 2006.
- * Attended the Spring Meeting of Seaway Section of the Mathematical Association of America (MAA), Ithaca College, New York, April 28-29, 2006.
- * Participated and presented a talk at the PREP Workshop (Professional Enhancement Programs of MAA). The workshop was about "CONIC SECTIONS: *Searching for Beauty Reveals Deeper Truths*", Cleveland State University, Cleveland, May 15-19, 2006.
- * Attended the Annual Joint Meeting of the American Mathematical Society (AMS) and Mathematical Association of America (MAA), San Antonio, TX, January 2006.
- * Participated at the Regional Conference on TTT (Teachers Teaching with Technology), held by Texas Instruments at Utica College, August 18-19, 2005.
- * Attended and presented a paper at 31st Annual New York State Regional Graduate Mathematics Conference at Syracuse University, April 8-9, 2005.
- * Attended and presented a paper at the Spring Meeting of Seaway Section of the Mathematical Association of America (MAA), Queen's University, Canada, April 1-2, 2005.
- * Attended the Annual Joint Meeting of the American Mathematical Society (AMS) and Mathematical Association of America (MAA), Atlanta, GA, January 2005.
- * Presented a talk at the Utica College Faculty Research Day, October 2004.
- * Attended and presented a paper at the Annual Summer Math Fest Meeting of the Mathematical Association of America (MAA), Providence, RI, August 2004.
- * Attended the Spring Meeting of Seaway Section of the Mathematical Association of America (MAA), SUNY at Cortland, April 2004.
- * Attended the Annual Joint Meeting of the American Mathematical Society (AMS) and Mathematical Association of America (MAA), Phoenix, AZ, January 2004.
- * Attended the Fall Meeting of Seaway Section of the Mathematical Association of America (MAA), RIT, Rochester, New York, November 2003. I was at the panel of "Preparing Mathematicians to Educate Mathematics Teachers".

- * Presented a lecture titled "*Another Look at the Magic Squares and the Knight Tours*", Utica College Nexus Seminars, October 2003.
- * Attended and presented a paper at the Annual Summer Math Fest Meeting of the Mathematical Association of America (MAA), Colorado University, Boulder, August 2003.
- * Participated at the PREP Workshop (Professional Enhancement Programs of MAA). The workshop was about "*Presenting Mathematical Masterpieces and Powerful Techniques of Effective Thinking to Non-science Students*", Colorado University, Boulder, July 27-30, 2003.
- * Attended the Annual Joint Meeting of the American Mathematical Society (AMS) and Mathematical Association of America (MAA), Baltimore, MD, January 2003.
- * Presented a paper at the International Congress of Mathematicians (ICM-2002), Beijing, China, August 2002.
- * Attended the Spring Meeting of Seaway Section of the Mathematical Association of America (MAA), SUNY at Brockport, April 2002.
- * Attended the Annual Joint Meeting of the American Mathematical Society (AMS) and Mathematical Association of America (MAA), San Diego, CA, January 2002.
- * Presented a paper at the Fall Meeting of Seaway Section of the Mathematical Association of America (MAA), Brock University, Ontario, Canada, November 2001.
- * Attended the Spring Meeting of Seaway Section of the Mathematical Association of America (MAA), SUNY at Binghamton, April 2001.
- * Attended the Annual Joint Meeting of the American Mathematical Society (AMS) and Mathematical Association of America (MAA), New Orleans, LA, January 2001.
- * Attended the Fall Meeting of Seaway Section of the Mathematical Association of America (MAA), SUNY at Fredonia, November 2000.
- * Attended the workshop "*On Teaching Mathematics by Using Multimedia*", Sponsored by Houghton Mifflin Company at Hudson Valley Community College, Troy, New York, April 2000.
- * Attended the Spring Meeting of Seaway Section of the Mathematical Association of America (MAA), SUNY at Oswego, April 2000.
- * Attended the Fall Meeting of Seaway Section of the Mathematical Association of America (MAA), Adirondack Community College, November 1999.

- * Attended the Fall Meeting of Seaway Section of the Mathematical Association of America (MAA), Nazareth College, November 1998.
- * Presented a paper at the International Congress of Mathematicians (ICM-1998), Berlin, Germany, August 1998.
- * Attended the Spring Meeting of Seaway Section of the Mathematical Association of America (MAA), Syracuse University, April 1998.
- * Attended the Annual Joint Meeting of the American Mathematical Society (AMS) and Mathematical Association of America (MAA), Baltimore, MD, January 1998.
- * Attended the Spring Meeting of Seaway Section of the Mathematical Association of America (MAA), Broome Community College, April 1997.
- * Attended the Fall Meeting of Seaway Section of the Mathematical Association of America (MAA), SUNY at Geneseo, November 1996.
- * Attended the NSF funded workshop, "*The STATS Workshop*" held at the Monroe Community College, Rochester, November 1996.
- * Attended the Fall Meeting of Seaway Section of the Mathematical Association of America (MAA), Skidmore College, November 1995.
- * Presented a lecture, "*Thinning out the Harmonic Series*", Utica College Math Club, October 1995.
- * Attended the Annual Summer Math Fest Meeting of the Mathematical Association of America (MAA), University of Vermont, Burlington, August 1995.
- * Attended the NSF funded workshop, "*The Calculus in a Real and Complex World*" held at the University of Massachusetts, Amherst, July 17-21, 1995.
- * Attended the Spring Meeting of Seaway Section of the Mathematical Association of America (MAA), Elmira College, April 1995.
- * Attended the Spring Meeting of Seaway Section of the Mathematical Association of America (MAA), Hobert and William Smith College, April 1995. Also, participated at the afternoon workshop "*Home on the Web, Publishing Information on WWW*".
- * Participated and presented a paper "*Interesting Subseries of the Harmonic Series*," at the 21st Annual New York regional Graduate Mathematics Conference, Syracuse University, March 24-25, 1995.
- * Attended the "Syracuse University Seminars on Teaching", Spring Semesters of 1988—1995.

- * Attended the Fall Meeting of Seaway Section of the Mathematical Association of America (MAA), Rochester Institute of Technology, November 1994. Also, participated at the workshop "*On the Using Technology in the Specific Courses*".
- * Presented a lecture "*Exploring Mathematics with New Technology*", Utica College Nexus Seminar, November 1994.
- * Presented a lecture, "*Some Remarkable Subseries of the Harmonic Series*" at the Mathematics Department Seminars, October 1994.
- * Participated and presented a paper "*On the Improvement of Estimating of Cauchy Principal Value Integrals by Using the Manifold Splines*", at the International Congress of Mathematicians (ICM-94), Zurich, Switzerland, August 3-11, 1994.
- * Attended the Spring Meeting of Seaway Section of the Mathematical Association of America (MAA), State University of New York at Albany, April 22-23, 1994.
- * Attended the Annual Joint Meeting of the American Mathematical Society (AMS) and Mathematical Association of America (MAA), Cincinnati, Ohio, January 12-15, 1994.
- * Attended the Fall Meeting of Seaway Section of the Mathematical Association of America (MAA), Onondaga Community College, November 5-6, 1993.
- * Participated and presiding at the Sixth Annual International Conference on "*Technology in Collegiate Mathematics (ICTCM-93)*", Parsippany, New Jersey, November 1993.
- * Participated at the workshop "*Teaching Tools for the 90's*" held at ONCENTER, Syracuse, New York, November 1993.
- * Attended the Spring Meeting of Seaway Section of the Mathematical Association of America (MAA), State University of New York at Binghamton, April 23-24, 1993.
- * Participated at the Addison Wesley and Texas Instruments Workshop "*Techniques and Applications of Using Graphing Calculators in Mathematics*", Sienna College, Loudonville, New York, March 1993.
- * Attended the Annual Joint Meeting of the American Mathematical Society (AMS) and Mathematical Association of America (MAA), San Antonio, Texas, January 13-16, 1993.
- * Attended the Fall Meeting of Seaway Section of the Mathematical Association of America (MAA), Cornell University, Ithaca, November 13-14, 1992.

- * Participated and presented a paper "*Teaching Calculus in Nonhomogeneous Classes*", at the International Congress on Mathematical Education (ICME-7), Laval University, Quebec, Canada, August 1992.
- * Presented a lecture at the Spring Meeting of Seaway Section of the Mathematical Association of America (MAA), held conjunction with the 91st Ontario Mathematics Meeting, Queen's University, Kingston, Ontario, Canada, May 1992.
- * Presented a lecture "*Graphing and Solving Inequalities by Using the Sign Tables*", Utica College Math Club, April 1992.
- * Presented a lecture "*Magic Squares and the Knight Tours*", Utica College Nexus Seminar, February 1992.
- * Attended the Annual Joint Meeting of the American Mathematical Society (AMS) and Mathematical Association of America (MAA), Baltimore, Maryland, January 8-11, 1992.
- * Attended the Fall Meeting of Seaway Section of the Mathematical Association of America (MAA), State University of New York at Fredonia, November 1991.
- * Presented a lecture "*Numerical Approximation of Cauchy Principal Value Integrals by Interpolatory Piecewise Polynomials*", at the Spring Meeting of Seaway Section of the Mathematical Association of America (MAA), State University of New York at Oneonta, April 1991.
- * Attended the Fall Meeting of Seaway Section of the Mathematical Association of America (MAA), State University of New York at Oswego, November 1990.
- * Presented a lecture, "*A Class of End Conditions for Spline Functions Obtained from Integration*", at the International Congress of Mathematicians, (ICM-90), Kyoto, Japan, August 1990.
- * Attended the Spring Meeting of Seaway Section of the Mathematical Association of America (MAA), Colgate University, April 1990.
- * Attended and participated at the Fall Meeting of Seaway Section of the Mathematical Association of America (MAA), Utica College, November, 1989.
- * Attended the "*Symposium on Teaching Mathematics with Computer*", Rochester Institute of Technology (RIT), October 1989.
- * Presented a lecture "*End Conditions for the Spline Functions Derived from Integration*", at the Spring Meeting of Seaway Section of the Mathematical Association of America (MAA), Union College, April 1989.

- * Attended the conference "*The Future of Calculus*", Ithaca College, April 1989.
- * Presented a lecture "*On the Divergence of the Euler Series*", at the Fall Meeting of Seaway Section of the Mathematical Association of America (MAA), Syracuse University, November 1988.
- * Attended the "Science Day", Rensselaer Polytechnic Institute (RPI), Troy, New York, November 1987.
- * Presented a lecture "*Superconvergence Properties of Quintic Interpolatory Splines*", at the International Congress of Mathematicians, (ICM-86), University of California, Berkeley, August 1986
- * Presented a lecture at the Iranian Annual Mathematical Conference (IAMC), Zahedan University, Zahedan, Iran, 1986.
- * Presented a lecture at the Iranian Annual Mathematical Conference (IAMC), Teachers Training University, Tehran, Iran, 1985.
- * Invited speaker at the Iranian Annual Mathematical Conference (IAMC), Shiraz University, Shiraz, Iran, (IAMC), 1984.
- * Presented a lecture at the Iranian Annual Mathematical Conference (IAMC), Tabriz University, Tabriz, Iran, 1983.
- * Presented a lecture at the Postgraduate Students Seminars (PSS), Oxford University, Oxford, England, 1979.
- * Presented a lecture at the Postgraduate Students Seminars (PSS), Bath University, Bath, England, 1978.
- * Presented a lecture at the Postgraduate Students Seminars (PSS), Brunel, The University of West London, England, 1977.

(b) Other Professional Activities

- * Comments on Calendar Problem # 29, October 2017 NCTM, Mathematics Teacher, Vol. 111, No. 7, page 488, (May 2018),
- * Designed mathematical problems for the Problem Solving Competitions, April 2014.
- * Reviewed (as a referee) a paper entitled "A Simple Method for Constructing Integro Spline Quasi-interpolants", April 2014, Journal of Mathematics and Computers in Simulation.
- * Participated at the great recreational mathematician Martin Gardner (1914— 2014) Centennial Celebration Ceremony arranged by MAA and I have contributed and

posted several of my own magic squares at www.mathaware.org which included 30 days of activities on mathematical magic tricks, mysteries, puzzles, illusions, and more in memory of Martin Gardner.

- * Reviewed (as a referee) a paper entitled “On Quintic Spline Polynomial”, February 2014, Journal of Mathematics and Computations”.
- * Arranged a showcase display at the Utica College Library to introduce Magic Squares, Spring 2013.
- * Reviewed (as a referee) a paper entitled “Integro Sextic Spline Interpolation and its Supper Convergences”, November 2012, Journal of Applied Mathematical and Applications.
- * Reviewed (as a referee) a paper entitled “On Embedding of Non-polynomial Spline Spaces', May 2012, Journal of Mathematical Sciences.
- * Reviewed (as a referee) a paper entitled “Fitting Data Using Optimal Hermite Type Cubic Interpolating Splines, March 2012, Journal of Applied Mathematics Letters.
- * Reviewed (as a referee) a paper entitled “On Integro Quartic Spline Interpolation, April 2012, Journal of Computational and Applied Mathematics
- * Book review of six chapters of the fourth edition of Silverman's Number Theory, from Pearson, Fall 2010.
- * Designed mathematical problems for the Problem Section, Journal of the Mathematical Spectrum, Vol. 41, No. 3, 2009, P. 139.
- * Reviewed (as a referee) a paper entitled “*The local integro cubic splines and its approximation properties*”, Journal of Applied Mathematics and Computation, Fall 2009.
- * Book review of three chapters of the first edition of Messer Smith’s Intermediate Algebra, from McGraw Hill, June 2009.
- * Book review of three chapters of the Dugopolski’s Intermediate Algebra, from McGraw Hill, July 2009.
- * Designed mathematical problems for the Problem Solving Competitions, Spring 2008.
- * Designed problems for the Journal of Mathematical Spectrum, spring 2008.
- * Reviewed (as a referee) a paper entitled “*End Conditions for Interpolatory Nonic Splines*”, Bulletin of the Malaysian Mathematical Society, 2006.
- * Book review, the second edition of a mathematics textbook "Doing Mathematics" by Steve Galovich, Brooks/Cole Publishing Company, Spring 2004.
- * Reviewed (as a referee) a paper for the Journal of ACTA Mathematica, "*Cubic Spline Interpolation with Quasiminimal B-Spline*", Fall 2003.
- * MAA liaison at Utica College.
- * Advisor of the Student Chapter of MAA at Utica College.
- * Advisor of the Mathematics Problem Solving Competition Program at UC.
- * Surf and search the Internet and collect information in mathematics and share with mathematics faculty and students.
- * Book Review, three chapters of a mathematics textbook published by John Wiley, 1999.

SERVICES

(I) Utica College

- * Member of the PDC, Spring 2018 to present.
- * Member of Mathematics Search Committee, Spring 2018.
- * Member of the PDC, Fall 2014 to Spring 2015.
- * Member of Math Department Program Review Committee, 2013-2014
- * Chair of Mathematics Department, June 2005 to 2012
- * Member of Mathematics Search Committee, Fall 2011 and Spring 2012.
- * Member of Mathematics Search Committee, Fall 2010 and Spring 2011.
- * Member of the PDC, Fall 2007 to Spring 2010.
- * Member of Mathematics Search Committee, 2007-2008.
- * Chair of Math Department Program Review Committee, 2006-2007.
- * Member of the Harold T. Clark Award Committee, 2006-2007.
- * Member of Math Placement Test Committee, Fall 2006.
- * Member of MAT 100 Review Committee, Fall 2006.
- * Chair of Mathematics Search Committee, 2005-2006.
- * Workshop on Adapting Curriculum for Students Success (ACSS Faculty).
- * Member of Mathematics Search Committee, Fall 2004.
- * Member of Math Department Program Review Committee, 2003-2004.
- * Member of Mathematics Search Committee, 2002-2003.
- * Chair of Mathematics Search Committee, Spring 2002.
- * Member of the FAC, 2000-2003.
- * Member of the Geology Faculty Search Committee, 2000.
- * Member of the Committee on International Program, 1999-2000.
- * Member of the Mentoring Program at Utica College, 1995-2000.
- * Member of the Family Weekend Committee, 1994-2000.
- * Member of Math Department Program Review Committee, 1998-1999
- * Coordinator (Chairperson) of Mathematics Department, 1993-1995.
- * Coordinator (Chairperson) of Actuarial Science program, 1993 -1995.
- * Member of the Distinguished Visiting Lecture Committee, Fall 1995.
- * Member of the Academic Standard Committee, 1988-93, (chairman for one year).
- * Member of Mathematics Search Committee, 1988 and 1992.
- * Member of Mathematics Placement Test Committee, 1990-1991 (Chairman for one year).
- * Member of the Academic Media Committee, 1988-89 and 1991-92.
- * Chairperson of the Calculus Committee, 1989.
- * Student Advisor.
- * Faculty Advisor of the Problem Solving Competition at Utica College, 1992 to present.
- * Faculty Advisor of the student team for “Mathematical Contest in Modeling, 1989-1994.
- * Faculty Advisor of the MAA Student Chapter at Utica College, 1988 to present
- * Faculty Advisor of the Math Club, 1995-2002.
- * Participant at the Workshop on Advising Students.

- * Participant at the Workshop on Learning Disability Program.
- * Participant at the Workshop on Writing and Writing Intensive Courses.
- * Member of the Science Fair Committee, 1988-1992.

(II) Tabriz University, Iran

Participant at the university and departmental committees such as: Executive Committee, Screening Committee for Employment, Development Committee, Entrance Examination Committee. Responsible for the department colloquiums, conferences, and schedules. Student Advisor. Coach of the field trips for students.

AWARDS, SCHOLARSHIPS, GRANTS

- * Recipient of The 16th Harold T. Clark, Jr. Award, Utica College, 2005.
- * Sabbatical, Utica College, Spring 2005
- * Recipient of the Utica College Faculty Leadership Funds: 1990 (Japan), 1992 (Canada), 1994 (Zurich), 1998 (Germany), 2002 (China), 2006 (Spain), 2007 (Egypt), 2010 (India).
- * Recipient of the Utica College Small Grant, 1989
- * Scholarship from Tabriz University, Tabriz, Iran, to go to (ICM-86), Berkeley, USA, 1986.
- * Scholarship from Tabriz University, Tabriz, Iran, to get my M.S. and Ph.D. Degrees, 1975-1980.

MEMBERSHIPS

- * A Guest Editor of the special issue entitled "Fractional integral and differential" in an ISI journal ("Hindawi Publication").
- * Member of the Editorial Board of the Journal of Communications in Numerical Analysis.
- * Mathematical Association of America (MAA), 1989 to present.
- * Member of the Visiting Lecturer Program of the Mathematical Association of America (MAA) with three topics to address, 1994-1998.
- * American Mathematical Society (AMS), 1991 to 1999.
- * American Association of University Professors (AAUP), 1987 to present.
- * Iranian Mathematical Society, 1970 to 1986.

PERSONAL

- * Born on October 15, 1943 in Tabriz, Iran. Married and have two children.
- * US Citizen.