

Dr. Ma's Curriculum Vitae

1. Personal Particulars

Name: Professor Wen-Xiu Ma (Ph.D.)
Address: Department of Mathematics and Statistics
University of South Florida
4202 E Fowler Avenue, CMC 342
Tampa, FL 33620-5700, USA
Phone & Fax: +1-813-974-9563 & +1-813-974-2700
Email: mawx@math.usf.edu, mawx@cas.usf.edu
Web page: <http://www.math.usf.edu/~mawx>

2. Education Background

1978-1982: B.S., Department of Mathematics
University of Science and Technology of China, Hefei, P.R. China
Major: Computational Mathematics
1982-1985: M.S., Graduate School of Academia Sinica, Beijing, P.R. China
Major: Applied Mathematics
1987-1990: Ph.D., Computing Center of Academia Sinica, Beijing, P.R. China
Major: Mathematical Physics

3. Professional Experience

1985-1987: Assistant Professor
Department of Applied Mathematics
Shanghai Jiao Tong University, Shanghai, P.R. China
1990-1992: National Postdoctoral Fellow
Department of Mathematics, Fudan University, Shanghai, P.R. China
Research area: Integrable Systems and Soliton Theory
1992-1997: Associate Professor
Institute of Mathematics, Fudan University, Shanghai, P.R. China
1992-1995: Shanghai Qi Ming Xing (Outstanding Young Research Fellow)
Shanghai Government, Shanghai, P.R. China
1993-1994: Visiting Scholar
Chinese University of Hong Kong, Hong Kong, P.R. China
1994-1996: Humboldt Research Fellow

Department of Mathematics and Computer Sciences
 University of Paderborn, Paderborn, Germany
 Research area: Soliton Theory and Computer Algebra Methods

1996.6-7: Visiting Scholar
 Institute of Theoretic Physics, University of Montpellier II, Montpellier, France

1996-1997: Research Fellow
 Department of Mathematics, UMIST, Manchester, UK
 Research area: Classical and Quantum Integrable Systems

1997-2002: Assistant Professor
 Department of Mathematics, City University of Hong Kong
 Hong Kong, P.R. China

1999.6: Visiting Scholar
 Department of Mathematics, University of Minnesota, Minneapolis, MN, U.S.A

1999.10: Visiting Scholar
 Institute of Mathematics, Academia Sinica, Taipei, Taiwan

2000.1: Visiting Scholar
 School of Mathematical and Computer Sciences
 University of New England, Armidale, NSW, Australia

2000.2: Visiting Scholar
 Department of Mathematics, National University of Singapore, Singapore

2000.5: Visiting Scholar
 Institute of Theoretical Physics, University of Warsaw, Warsaw, Poland

2000.7,2001.6: Visiting Scholar
 Department of Mathematics, University of British Columbia, Vancouver
 BC, Canada

2001.2: Visiting Scholar
 Department of Mathematics, Brock University, St. Catharines
 Ontario, Canada

2002.1-2005.4: Assistant Professor
 Department of Mathematics, University of South Florida, Tampa, Florida, USA

2003.6: Visiting Scholar
 Department of Mathematics, Ohio State University, Columbus, OH, USA

2005-2008: Distinguished Visiting Professor
 Shandong University of Science and Technology
 579 Qianwangang Road, Qingdao, Shandong, P.R. China

2005.5-2009.4: Associate Professor (tenured)
 Department of Mathematics, University of South Florida, Tampa, Florida, USA

2005.6: Visiting Scholar
 Department of Mathematical Sciences, Tsinghua University, Beijing, P.R. China

2006.6: Visiting Scholar

Department of Mathematics
 University of Science and Technology of China, Hefei, Anhui, P.R. China

2006.8 Visiting Scholar
 Department of Mathematics and Graduate School
 Northern Illinois University, DeKalb, IL, USA

2007.7-8 Visiting Professor
 School of Mathematical Sciences
 Fudan University, Shanghai 200433, P.R. China

2007.10 Visiting Scholar
 Courant Institute of Mathematical Sciences
 New York University, New York, NY, USA

2007.12 Research Fellow
 State Key Laboratory of Scientific and Engineering Computing
 Academia Sinica, Beijing, P.R. China

2008.3 Visiting Scholar
 Department of Mathematics
 University of Texas - Pan American, Edinburg, TX, USA

2008.9 Wong Kuancheng Visiting Professor
 School of Software Engineering
 East China Normal University, Shanghai 200062, China

2008-2011 Distinguished Visiting Professor
 Shanghai University, Shanghai 200444, P.R. China

2008-present Guest Professor
 Zhejiang Normal University, Jinhua 321004, P.R. China

2008.11 Visiting Professor
 Texas A & M University at Qatar, PO Box 23874, Doha, Qatar

2008.12 Visiting Professor
 Institute of Mathematics
 Academia Sinica, Taipei 11529, Taiwan

2009.5-now: Full Professor (tenured)
 Department of Mathematics, University of South Florida, Tampa, Florida, USA

2009.6 Visiting Professor
 Department of Mathematics
 Shanghai Jiaotong University, Shanghai 200240, P.R. China

2009-2012 Honorary Professor
 National Huaqiao University, Quanzhou 362021, P.R. China

2009.8 Visiting Professor
 Department of Mathematics
 Zhejiang Normal University, Jinhua 321004, P.R. China

2009-2010 Distinguished Guest Professor

State Administration of Foreign Experts Affairs of China
 Fudan University, Shanghai 200433, P.R. China

2013-2015: Distinguished Overseas Professor
 Shanghai University of Electronic Power, Shanghai 200090, P.R. China

2015-2016: Distinguished Overseas Professor
 Shanghai Second Polytechnic University, Shanghai 201209, P.R. China

2016.9: Visiting Professor
 Shanghai Maritime University, Shanghai 201306, P.R. China

2016.10-11: Distinguished Visiting Professor
 Beijing Jiaotong University, Beijing 100044, P.R. China

2016.12: Visiting Professor
 Fudan University, Shanghai 200433, P.R. China

2017.1 Extraordinary Professor

-2019.12: North-West University, Mmabatho 2735, South Africa

4. Research Interests

Applied Mathematics: Integrability tests for differential equations (DEs)
 Symmetry constraints and Liouville integrability
 Miura, Darboux and Bäcklund transformations
 Inverse scattering transform
 Relations of DEs with infinite-dimensional Lie algebras
 Toda lattices, Pfaffian lattices, and orthogonal polynomials
 Applications of DEs in engineering science and mathematical biology
 Bifurcation and chaos
 Algebro-geometric solutions

Mathematical Physics: Symmetries and conservation laws
 Variational principles, Lie group method
 Hamiltonian and bi-Hamiltonian theories
 Advection-diffusion equations and reaction-diffusion equations
 Solitons, positons, negatons, breathers and complexitons
 Quantum and super-symmetric integrable systems
 Riemann-Hilbert problems

Symbolic Computation: Symmetries and conservation laws
 Interactions of solitons, breathers and complexitons
 Resonance and web structure of solitons, dromions and solitoffs
 Computer-assisted theorem proofs
 Lump solitons

5. Computer Techniques and Languages Used

Maple, Mathematica, MuPAD, Maple TA

Latex, Word, Publisher, Powerpoint, Adobe Acrobat

Microsoft Windows and Unix System, Visual C++, HTTP, Java, WebCT, InterWise, Brownstone EDU, Canvas

6. Synergistic Activities and Significant Achievements

(a) Served as vice director of the youth work committee of the Chinese Mechanical Society, 1991-1996; and co-organized the fifth national youth conference on mechanics and applied mathematics, China, 1990.

(b) co-edited Proceedings of Recent Advances in Integrable Systems (published by Journal of Nonlinear Mathematical Physics, 2002), and Proceedings of Integrable Systems and Special Functions (published by Journal of Computational and Applied Mathematics, 2007).

(c) Co-organized the special sessions at mathematics conferences:

Integrable systems, 1st Joint Meeting between the American Mathematical Society and Hong Kong Mathematical Society, Hong Kong, December 13-16, 2000;

Integrable systems and nonlinear waves, The 4th World Congress of Nonlinear Analysis, Orlando, FL, USA, June 30 - July 7, 2004;

Integrable systems and special functions, Joint Mathematics Meetings, Atlanta, GA, USA, January 5-8, 2005;

Continuous and discrete integrable systems and their applications, Joint Mathematics Meetings, New Orleans, LA, USA, January 5-8, 2007;

Algebraic and Geometric Aspects of Integrable Systems, Joint Mathematics Meetings, San Diego, CA, USA, January 6-9, 2008;

Nonlinear PDEs and Applications, The 6th International Conference on Differential Equations and Dynamical Systems, Baltimore, MD, USA, May 22-26, 2008;

Symmetry Methods for Applied Partial Differential Equations, The 5th World Congress of Nonlinear Analysis, Orlando, FL, USA, July 2-9, 2008.

Recent Development in Soliton Theory, The Sixth IMACS International Conference on Nonlinear Evolution Equations and Wave Phenomena: Computation and Theory, Athens, Georgia USA, March 23-26, 2009.

Recent Advances in Evolution Equations and Applications, Joint Mathematics Meetings, San Francisco, CA, USA January 13-16 2010.

Integrability of Dynamical Systems and Soliton Equations, Joint Mathematics Meetings, San Francisco, CA, USA, January 13-16 2010.

- (d) Developed the on-line practice and test question banks for College Algebra at University of South Florida by the Brownstone EDU system (<http://shell.cas.usf.edu:9082/classes/Collateralized/>), 2004-2007.
- (e) Initiated and organized the 2006 Chinese New Year Celebration of Tampa Bay as the chair of the celebration committee, Tampa, Florida, USA, 2005-2006.
- (f) Gave lectures at the Winter School on Nonlinear Waves, The China Center of Advanced Science and Technology, Beijing, P.R. China, 2007.
- (g) Contributed to “Encyclopedia of Nonlinear Science”, Routledge, 2004 September (<http://www.routledge-ny.com/ref/nonlinearsci/>).
- (h) In collaboration with Benno Fuchssteiner, Ph.D., developed a representation theory of master symmetries for discrete integrable equations (W. X. Ma and B. Fuchssteiner, Algebraic structure of discrete zero curvature equations and master symmetries of discrete evolution equations, *Journal of Mathematical Physics*, **40**(1999), no. 5, 2400-2418).
- (i) Developed Lie algebraic theory for Lax representations and zero curvature equations (Chapter 4 of *Multi-Hamiltonian Theory of Dynamical Systems* by M. Blaszak, Texts and Monographs in Physics, Springer-Verlag, Berlin, 1998).
- (j) Proved Zakharov’s conjecture on the existence of recursion operators in 2+1 dimensional bi-Hamiltonian theory (W. X. Ma, Integrable Coupling of Soliton Equations by Perturbations *Methods and Applications of Analysis*, **7**(2000), no. 1, 21-56).
- (k) Presented a method of symmetry constraints and separation of variables for soliton equations (W. X. Ma and Z. X. Zhou, Binary symmetry constraints of N -wave interaction equations in $1 + 1$ and $2 + 1$ dimensions, *Journal of Mathematical Physics*, **42**(2001), 4345-4382).
- (l) Organized and chaired the 1st International Workshop on Nonlinear and Modern Mathematical Physics, July 15-21, 2009, Shihezi City, Xinjiang, P.R. China (<http://shell.cas.usf.edu/mawx/NMMP-Xinjiang-2009.htm>).
- (m) Organizing the 7th International Conference on Differential Equations and Dynamical Systems to be held from December 15-18, 2010, Tampa, Florida, USA (<http://www.math.usf.edu/7thde/>).
- (n) Organized and chaired the 2nd International Workshop on Nonlinear and Modern Mathematical Physics, March 9-11, 2013, Tampa, Florida, USA (<http://math.usf.edu/2ndNMMP/>)

- (o) Co-organized and chaired the 3rd International Workshop on Nonlinear and Modern Mathematical Physics, April 9-11, 2015, Cape Town, South Africa
(<https://sites.google.com/a/aims.ac.za/3rd-nmmp/home/>)

7. Research Fellowships and Distinctions Awarded

- 1990: National Postdoctoral Fellowship, Class A, P.R. China
1991: Thesis Award of Shanghai Association of Science and Technology, P.R. China
1992: Thesis Award of Chinese Association of Science and Technology, P.R. China
1993: Shanghai Outstanding Youth Research Fellowship, P.R. China
1994: Humboldt Research Fellowship, Germany
1996: Forward Award of Excellence for Research, Fudan University, P.R. China
1999: New Century Award, Barons Who's Who, USA
2000: The Who's Who Medal, The Who's Who Institute, USA
2003: Internal Research Award, University of South Florida, USA
2003: Forward Award of Excellence for Research, Fudan University, P.R. China
2004: Faculty Development Award, College of Arts and Sciences
University of South Florida, USA
2005: Visiting Professorship, Shandong University of Science and Technology
Qingdao, P.R. China
2005: Service Excellence Award, USF Chinese School, Florida, USA
2007: Outstanding Service Award
Chinese-American Association of Tampa Bay, Florida, USA
2007: Research Fellowship, State Key Laboratory of Scientific and Engineering Computing
Academia Sinica, Beijing, P.R. China
2007: Award of Chunlan Plan
The Ministry of Education of China, P.R. China
2008: Faculty Development Award, College of Arts and Sciences
University of South Florida, USA
2008: Visiting Professorship, Wong Kuancheng Foundation, P.R. China
2009: Conference Coordination Grant, College of Arts and Sciences
University of South Florida, USA
2010: International Conference Coordination Grant
University of South Florida, USA
2009: Distinguished Guest Professorship
State Administration of Foreign Experts Affairs of China, P.R. China
2013: Distinguished Overseas Professorship
Shanghai University of Electric Power, P.R. China
2015: Best Paper Award, Science in China: Mathematics, P.R. China
2016: Distinguished Overseas Professorship

Shanghai Second Polytechnic University, P.R. China

2017: Extraordinary Professorship
North-West University, South Africa

Included in:

- 1998: Who's Who in the World
(15th Edition, Reed Elsevier Inc.)
- 1998: Asia/Pacific-Who's Who
(1st Edition, Rifacimento International), printed on page 563
- 1999: Asia/American Who's Who
(1st Edition, Rifacimento International), printed on page 447
- 2000: Who's Who in the World
(Millennium Edition, Reed Elsevier Inc.), printed on page 1320
- 2000: Biography Today
(1st Edition, Good Morning), printed on page 441
- 2000: The International Directory of Distinguished Leadership
(9th Edition, American Biographic Institute)
- 2000: The Barons 500 - Leaders for the New Century
(2000 Commemorative Edition, Barons Who's Who), printed on page 294
- 2000: Reference Asia, Asia's Who's Who of Men & Women of Achievement
(Millennium Edition, Rifacimento International), printed on page 327
- 2001: Who's Who in the World
(18th Edition, Reed Elsevier Inc.)
- 2002: Who's Who in America
(57th Edition, Marquis Who's Who)
- 2002: Asia - Men & Women of Achievement
(Reguerdon Sdn. Bhd.)
- 2003: Asia/Pacific Who's Who (Vol. IV, Rifacimento International)
- 2003: Reference Asia: Asia's Who's Who of Men and Women of Achievement
(Revised Edition - Vol. I, Rifacimento International)
- 2004: Biography Fame International (Vol. VII, Biography International)
- 2005: Asia/American Who's Who (Vol. IV, Rifacimento International)
- 2005: Biography Today (Vol. III, Rifacimento International)
- 2005: Distinguished & Admirable Achievers (2nd Edition, South-Asia (INTL.) PUB. CO.)
- 2005: Marquis Who's Who in Science and Engineering (9th Edition)
- 2006: Asia/Pacific Who's Who (Vol. VI, Rifacimento International), printed on page 363
- 2006: Afro-Asian Who's Who (Vol. I, Rifacimento International), printed on page 260
- 2007: Asia/Pacific Who's Who (Vol. VII, Rifacimento International), printed on page 372
- 2007: Asia/American Who's Who (Vol. V, Rifacimento International)
- 2008: Asia/Pacific Who's Who (Vol. VIII, Rifacimento International)

- 2008: Asia/American Who's Who (Vol. VI, Rifacimento International)
 2009: Asia/Pacific Who's Who (Vol. IX, Rifacimento International)
 2010: Who's Who in America, 2010 (Marquis Who's WHO)

8. Membership of Professional Bodies

- 1989-1991: The Chinese Youth Society of Mechanics
 1991-present: The American Mathematical Society
 1991-1996: The Chinese Mechanical Society
 1992-present: The Chinese Society of Industrial and Applied Mathematics
 1992-present: The Chinese Mathematical Society
 1994-2001: Shanghai Center for Nonlinear Science
 1997-2002: The Hong Kong Mathematical Society
 1999-2008: The Mathematical Association of America
 2000-2002: International Federation of Nonlinear Analysts
 2004-present: The maple-expert Yahoo Group
 2004-2008: Society of Industrial and Applied Mathematics
 2007-present: International Association of Mathematical Physics

9. Funded Research Projects

- 1984: Algebraic Theory of Soliton Equations
 National Natural Science Foundation of China, P. R. China, Associate Investigator
 1986: Hamiltonian and Numerical Methods for Soliton Equations
 Shanghai Jiao Tong University, P.R. China, Principal Investigator
 1990: Nonlinear Partial Differential Equations
 National Postdoctoral Science Foundation of China, P.R. China, Principal Investigator
 1992: Nonlinearization of Lax Pairs
 Fudan University, Shanghai, P.R. China, Principal Investigator
 1993: Symmetries and Exact Solutions of Nonlinear Evolution Equations
 National Natural Science Foundation of China, P.R. China, Principal Investigator
 1994: Integrable Systems and Soliton Theory
 Shanghai Outstanding Youth Research Fund
 Shanghai Association of Science and Technology, P.R. China, Principal Investigator
 1995: Integrable Theory of Nonlinear Evolution Equations
 Alexander von Humboldt Foundation, Germany, Principal Investigator
 1997: Symmetry Theory of Soliton Equations
 (Project no.: 7000756) City University of Hong Kong, Principal Investigator
 1998: Algebraic Structures Related to Nonlinear Integrable Systems
 (Project no.: 7000803) City University of Hong Kong, Principal Investigator
 1998: Integrable Algebraic Theory of Soliton Equations

- (Project no.: 9040395)
 Research Grants Committee of Hong Kong, Principal Investigator
- 1999: Constrained Flows of Soliton Hierarchies by Symmetry Constraints
 (Project no.: 7000945) City University of Hong Kong, Principal Investigator
- 1999: Integrability of Constrained Flows and Separation of Variables of Soliton Equations
 (Project no.: 904066)
 Research Grants Committee of Hong Kong, Principal Investigator
- 2000: Theory of Nonlinearization of Lax Pairs with Applications
 (Project no.: 7001041) City University of Hong Kong, Principal Investigator
- 2001: Integrable Reductions of Soliton Equations from Infinite-Dimensions to
 Finite-Dimensions by Symmetry Constraints
 (Project no.: 7001178) City University of Hong Kong, Principal Investigator
- 2001: Binary Constrained Flows and Soliton Equations with Self-Consistent Sources
 (Project no.: 7001288) City University of Hong Kong, Principal Investigator
- 2002: The Theory of Symmetry Constraints of Soliton Equations
 (Project no.: 1249-936RO) University of South Florida, USA, Principal Investigator
- 2004: Method of Symmetry Constraints in Soliton Theory
 Faculty Development Project, College of Arts and Sciences
 University of South Florida, USA, Principal Investigator
- 2005: International Travel Grant
 Zhejiang Normal University, Jinhua, P.R. China
- 2006: International Travel Grant
 National Natural Science Foundation, P.R. China
- 2007: Chunhui Project, Collaborative Research on Integrable Systems
 The Ministry of Education of China, P.R. China, Principal Investigator
- 2007: International Travel Grant
 College of Arts and Sciences, University of South Florida, USA
- 2008: Computing Integrable Decompositions for Soliton Equations
 Faculty Development Project, College of Arts and Sciences
 University of South Florida, USA, Principal Investigator
- 2008: Solving Soliton Equations by Symmetry Constraints
 Established Research Grant
 University of South Florida, USA, Principal Investigator
- 2009: International Workshop on Nonlinear and Modern Mathematical Physics
 Conference Coordination Grant, College of Arts and Sciences
 University of South Florida, USA, Principal Investigator
- 2009: International Collaboration Grant with Fudan University
 State Administration of Foreign Experts Affairs of China, P.R. China, Principal Investigator
- 2010: 7th International Conference on Differential Equations and Dynamical Systems
 National Science Foundation, USA, Principal Investigator

- 2013: International Faculty Travel Grant
University of South Florida, USA
- 2013: International Workshop on Nonlinear and Modern Mathematical Physics
National Science Foundation, USA, Principal Investigator
- 2013: Symbolic Computations on Super Lie Algebras and Applications to Superintegrable Systems
National Natural Science Foundation of China, P.R. China, Co-Investigator
- 2014: Exact Solutions of Integrable Systems and Analysis of Their Dynamic Behaviors
National Natural Science Foundation of China, P.R. China, Co-Investigator
- 2016: Nonlinear and Modern Mathematical Physics
National Science Foundation, USA, Principal Investigator

10. Members of Editorial Boards

- 1999-2002: Editor of Journal of Nonlinear Mathematical Physics
- 2003-present: Editor of Far East Journal of Applied Mathematics
Editor of International Journal of Applied Mathematics & Statistics
Editor of Antarctica Journal of Mathematics
Editor of Pacific Journal of Mathematical Sciences
Editor of International Journal of Nonlinear Dynamical Systems
Editor of Modern Physics Letters B
Editor of International Journal of Modern Physics B
Editor of Advances in Mathematical Sciences Journal
Editor of International Journal of Mathematical Analysis
Editor of Global Journal of Pure and Applied Mathematics
Editor of Journal of Mathematical Sciences: Advances and Applications
Editor of Advances in Mathematical Physics
Editor of Journal of Mathematical Sciences: Advances and Applications
Editor of International Journal of Differential Equations
Editor of Advances in Applied Mathematics and Mechanics
Editor of Nonlinear Systems and Applications
Editor of Annual Review of Chaos Theory, Bifurcations and Dynamical Systems
Editor of International Journal of Analysis
Editor of Turkish Journal of Physics
Editor of Journal of British Journal of Applied Science & Technology
Editor of Global Journal of Mathematical Sciences
Editor of British Journal of Mathematics & Computer Science
- 2010-2012: Editor of Communications in Nonlinear Science and Numerical Simulation
- 2010-present: Editor-in-chief of Studies in Nonlinear Sciences
Editor-in-chief of Journal of Applied Mathematics and Physics
Member of Editorial Advisory Board of Open Mathematics
Editor-in-chief of Asian Journal of Mathematics and Physics

11. Professional Services

- 1991-present: Reviewer of Mathematical Reviews
The American Mathematical Society
- 1994-present: Referee of National Natural Science Foundation of China
- 1999-present: Reviewer of Zentralblatt MATH
Springer-Verlag and the European Mathematical Society
- 2001-present: Referee of National Science Foundation of USA
- 2004: Maple beta Tester for Maple 9.5, Maplesoft, Canada
- 2005-present: Referee of Natural Sciences and Engineering Research Council of Canada
Referee of the Royal Society, England
- 2008-present: Referee for the State Natural Science Award of China
National Office for Science and Technology Awards, China
Referee of the Scientific and Technological Research Council of Turkey
- 2009: External Reviewer of Ph.D. Dissertations of HITEC University, Pakistan
- 2009-present: Reviewer of the Japan Society for the Promotion of Science, Japan
- 2010: External Reviewer of Promotion Package of University of West Florida, USA
- 2010-present: Reviewer and Panelist of the National Commission for
Scientific and Technological Research of Chile (CONICYT), Chile
- 2012: External Reviewer of Promotion Package
University of Texas-Pan American, USA
- 2013: External Reviewer of Promotion Package of University of West Florida, USA
- 2014: External Reviewer of Ph.D. Dissertations
Indian Institute of Technology Roorkee, India
- 2014: External Reviewer of Promotion Package of Al al-Bayt University, Jordan
- 2014-present: Reviewer and Panelist for King Abdulaziz City for Science and Technology
Kingdom of Saudi Arabia
Reviewer of National Center of Science and Technology Evaluation
Ministry of Education and Science, Republic of Kazakhstan
Reviewer of Austrian Science Fund
- 2016-present: Reviewer of Council of Canadian Academies
Reviewer of Springer
Reviewer of Chapman & Hall/CRC, Taylor & Francis Group
- 1990-1991: Member of Board of Directors
The Chinese Youth Society of Mechanics
- 1991-1996: Vice Director of the Committee of Youth Work
The Chinese Mechanical Society
- 1994-1998: Member of the Work Committee
Shanghai Center for Nonlinear Science

- 1995-2001: Member of Computer Service Committee
The Association of Chinese Students and Scholars in Germany
- 2004-2005: Chair of USF Asian Alliance of Faculty and Staffs
University of South Florida, Florida, USA
- 2006-2007: President of Chinese-American Association of Tampa Bay
Florida, USA
- 2006-2007: Chair of the Lecture Series Committee of Department of Mathematics
University of South Florida, Florida, USA
- 2006-2007: Chair of the Program Committee, Asia Fest 2007
Hillsborough County, Florida, USA
- 2007-2008: Chair of the Advisory Committee
Department of Mathematics and Statistics
University of South Florida, Florida, USA
- 2009: Chair of the Activities Committee of Confucius Institute
University of South Florida, Florida, USA
- 2010-present: Chairman of Health and Sports Club
Chinese-American Association of Tampa Bay
Florida, USA
- 2014-2015: Chair of the Postdoctoral Search Committee
Department of Mathematics and Statistics
University of South Florida, Florida, USA
- 1988-present: Referee of Abstract and Applied Analysis
Acta Applicandae Mathematicae
Acta Mathematica Scientia
Acta Mathematica Sinica
Acta Mathematicae Applicatae Sinica
Acta Physica Sinica
Advances in Applied Mathematics and Mechanics
Advances in Difference Equations
Advances in Mathematical Physics
Advances in Mechanical Engineering
Advances in Optical Technologies
Advances in Space Research
African Journal of Mathematics and Computer Science Research
Ain Shams Engineering Journal
AIP Advances
Analysis and Applications
Annals of Differential Equations
Annals of Physics

Annual Review of Chaos Theory, Bifurcations and Dynamical Systems
 Applicable Analysis
 Applications and Applied Mathematics: An International Journal
 Applied Mathematics and Computation
 Applied Mathematics - A Journal of Chinese Universities
 Applied Mathematics and Mechanics
 Applied Mathematics Letters
 Applied Mathematical Modelling
 Applied Sciences
 Boundary Value Problems
 British Journal of Mathematics & Computer Science
 Bulletin of the Malaysian Mathematical Sciences Society
 Canadian Journal of Physics
 Chaos
 Chaos, Solitons & Fractals
 Chinese Annals of Mathematics, Series A and B
 Chinese Journal of Physics
 Chinese Physics B
 Chinese Physics Letter
 Chinese Science Bulletin
 Cogent Mathematics
 Communications Faculty of Sciences University of Ankara
 Series A1 Mathematics and Statistics
 Communications in Mathematical Physics
 Communications in Nonlinear Science and Numerical Simulations
 Communications in Theoretical Physics
 Computers and Mathematics with Applications
 Computer Physics Communications
 Differential Equations and Nonlinear Mechanics
 Discrete Dynamics in Nature and Society
 Dynamics of Atmospheres and Oceans
 Dynamics of Continuous, Discrete & Impulse Systems Series B:
 Applications and Algorithms
 Dynamics of PDE
 Electronic Journal of Differential Equations
 Engineering Computations
 Entropy
 European Journal of Applied Mathematics
 European Journal of Mechanics - B/Fluids
 European Physical Journal Plus

Europhysics Letters
Far East Journal of Applied Mathematics
Frontiers of Mathematics in China
Generalized Lie Theory and Applications
Hydrology
The IMA Journal of Applied Mathematics
Indian Journal of Physics
International Journal of Applied Mathematics & Computation
International Journal of Applied Mathematics & Statistics
International Journal of Applied Mechanics
International Journal of Computational Fluid Dynamics
International Journal of Computational Mathematics
International Journal of Computational Methods
International Journal of Computer Mathematics
International Journal of Computers and Mathematics with Applications
International Journal of Differential Equations
International Journal of Industrial Mathematics
International Journal for Light and Electron Optics
International Journal of Mathematics and Mathematical Sciences
International Journal of Modern Physics A, B, and C
International Journal of Neural Systems
International Journal of Nonlinear Science
International Journal of Nonlinear Sciences and Numerical Simulation
International Journal of Numerical Methods for Heat and Fluid Flow
International Journal of the Physical Sciences
International Journal of Theoretical Physics
Inverse Problems
ISRN Mathematical Physics
Journal Advanced Research in Differential Equations
Journal of Applied Analysis and Computation
Journal of Applied Mathematics and Computing
Journal of Computational and Applied Mathematics
Journal of Computational Mathematics
Journal of Differential Equations
Journal of Inequalities and Applications
Journal of King Saud University (Science)
Journal of Mathematical Analysis and Applications
Journal of Mathematical Physics
Journal of Mathematical Research with Applications
Journal of Nonlinear Analysis A & B

Journal of Nonlinear Mathematical Physics
Journal of Nonlinear Science
Journal of Nonlinear Science and Applications
Journal of Partial Differential Equations
Journal of Physical Mathematics
Journal of Physics A: Mathematical and General
Journal of Pure and Applied Mathematics: Advances and Applications
Journal of Optics A: Pure and Applied Optics
Journal of Zhejiang University - Science A
Mathematical and Computational Applications
Mathematical and Computer Modelling
Mathematical Methods in the Applied Sciences
Mathematical Physics, Analysis and Geometry
Mathematical Problems in Engineering
Mathematics and Computers in Simulation
Meccanica
Modern Physics Letters A & B
Nonlinear Dynamics
Nonlinear Analysis: Modelling and Control
Nonlinear Analysis Series A: Theory, Methods & Applications
Nonlinear Analysis Series B: Real World Applications
Nonlinearity
Nuovo Cimento A & B
Ocean Engineering
Open Journal of Applied Science
Optical and Quantum Electronics
Optics & Laser Technology
Physica A & D
Physica Scripta
Physics Letters A & B
Proceedings of the American Mathematical Society
Proceedings of the Royal Society of London A
Pure and Applied Mathematics Quarterly
Pure Mathematics
Reports on Mathematical Physics
Research in Applied Mathematics
Results in Physics
Sahand Communications in Mathematical Analysis
Science in China (Series A)
Scientia Iranica

The Scientific World Journal
 Southeast Asian Bulletin of Mathematics
 SpringerPlus
 Studies in Applied Mathematics
 Studies in Mathematical Sciences
 Superlattices and Microstructures
 Symmetry
 Symmetry, Integrability and Geometry: Methods and Applications
 Turkish Journal of Mathematics
 Turkish Journal of Physics
 Walailak Journal of Science and Technology
 Wave Motion
 Waves in Random and Complex Media
 World Applied Sciences Journal
 World Journal of Modeling and Simulation
 Zeitschrift für Angewandte Mathematik und Mechanik
 Zeitschrift für Angewandte Mathematik und Physik
 Zeitschrift für Naturforschung A - Physical Sciences, etc.

12. Research Activities Organized

- 1992-1994: Co-organizer, Joint Lecture Series on Nonlinear Sciences
 Fudan University, Shanghai, P.R. China
- 1997-2002: Co-organizer, Joint Seminars on Solitons
 Hong Kong Baptist University and City University of Hong Kong
 Hong Kong, P.R. China
- 1999.3: Co-organizer, Workshop on Integrable Systems
 Hong Kong University of Science and Technology, Hong Kong, P.R. China
- 2000.4: Co-organizer, Workshop on Soliton Theory and Integrable Systems
 City University of Hong Kong, Hong Kong, P.R. China
- 2000.10: Co-organizer, Special Session on Integrable Systems
 First Joint International Meeting between the American Mathematical
 Society and the Hong Kong Mathematical Society, Hong Kong, P.R. China
- 2004.6: Co-organizer, Special Session on Integrable Systems and Nonlinear Waves
 Fourth World Congress of Nonlinear Analysts, Orlando, FL, USA
- 2005.1: Co-organizer, AMS-SIAM Special Session on
 Integrable Systems and Special Functions
 Joint Mathematics Meetings, Atlanta, GA, USA
- 2005-2006: Co-organizer, Joint Seminars on Mathematical Physics
 University of South Florida and University of Central Florida
 Florida, USA

- 2007.1: Co-organizer, AMS Special Session on
Continuous and Discrete Integrable Systems and Their Applications
Joint Mathematics Meetings, New Orleans, LA, USA
- 2008.1: Co-organizer, AMS Special Session on
Algebraic and Geometric Aspects of Integrable Systems
Joint Mathematics Meetings, San Diego, CA, USA
- 2008.5: Co-organizer, Special Session on Nonlinear PDEs and Applications
The 6th Int. Conference on Differential Equations and Dynamical Systems
Baltimore, MD, USA
- 2008.7: Co-organizer, Special Session on
Symmetry Methods for Applied Partial Differential Equations
The 5th World Congress of Nonlinear Analysis, Orlando, FL, USA
- 2009.3: Co-organizer, Special Session on
Recent Development in Soliton Theory
The Sixth IMACS International Conference on Nonlinear Evolution Equations
and Wave Phenomena: Computation and Theory, Athens, GA, USA
- 2009.7: Chair, International Workshop on
Nonlinear and Modern Mathematical Physics
Beijing, P.R. China
- 2010.1: Co-organizer, AMS Special Session on
Recent Advances in Evolution Equations and Applications
Joint Mathematics Meetings, San Francisco, CA, USA
- 2010.1: Co-organizer, AMS Special Session on
Integrability of Dynamical Systems and Soliton Equations
Joint Mathematics Meetings, San Francisco, CA, USA
- 2010.12: Chair of the Local Organizing Committee, 7th International Conference on
Differential Equations and Dynamical Systems
December 15-18, 2010, Tampa, Florida, USA (<http://www.math.usf.edu/7thde/>)
- 2011.3: Member of the Scientific Program Committee
The 7th IMACS International Conference on Nonlinear Evolution Equations
and Wave Phenomena: Computation and Theory, Athens, GA, USA
- 2013.3: Chair of the Organizing Committee
2nd International Workshop on
Nonlinear and Modern Mathematical Physics
Tampa, FL, USA
- 2013.8: Member of the Scientific Program Committee
12th National Conference on Integrable Systems, Hangzhou, China
- 2014.4: Co-Chair of the Organizing Committee
3rd International Workshop on
Nonlinear and Modern Mathematical Physics

Cape Town, South Florida

- 2014.8: Member of the Scientific Program Committee
13th National Conference on Integrable Systems, Weifang, Shandong, China

13. Conferences and Workshops Participated

- 1989.5: Invited speaker
International Conference on Nonlinear Physics, Shanghai, P.R. China
- 1990.6: Plenary speaker
The Fourth Annual Conference of the Chinese Youth Society of Mechanics
Qingdao, P.R. China
- 1991.7: Paper presenter
The 21st International Conference on Differential Geometry Methods
in Theoretical Physics, Tianjin, P.R. China
- 1992.6: Participant
International Conference on Differential Geometry, Shanghai, P.R. China
- 1992.6: Invited speaker
The 2nd Conference of the Chinese Society of Industrial and Applied Mathematics
Shanghai, P.R. China
- 1992.8: Invited speaker
The CAST 1st Academic Annual Meeting of Youths
The Chinese Association of Science and Technology, Beijing, P.R. China
- 1993.7: Invited speaker
The 1st Academic Annual Meeting of Chinese Post-doctors
The National Postdoctoral Science Foundation of China, Beijing, P.R. China
- 1994.6: Invited speaker
International Conference on Nonlinear Evolution Equations, Beijing, P.R. China
- 1994.8: Young participant supported by International Mathematical Union
International Congress of Mathematicians 1994, ETH, Zurich, Switzerland
- 1995.7: Invited speaker
The First International Conference of Nonlinear Physics
(Theory and Experiment), Gallipoli, Italy
- 1996.6: Participant
International School - The Painleve Property, One Century Later, Cargese, France
- 1996.7: Invited speaker
Symmetries and Integrability of Difference Equations II, Canterbury, UK
- 1997.6: Paper presenter
The First Pan-China Conference on Differential Equations, Kunming, P.R. China
- 1997.10: Invited speaker
International Conference on Nonlinear Systems, Solitons and Geometry
Oberwolfach, Germany

- 1998.6: Invited speaker
International Conference on Integrable Systems: Solutions and Transformations
Guardamar, Spain
- 1998.6: Invited speaker
The 12th Workshop on Nonlinear Evolution Equations and Dynamical Systems
Leeds, UK
- 1999.6: Invited speaker
AARMS-CRM Workshop on Bäcklund & Darboux Transformations:
The Geometry of Soliton Theory, Halifax, Nova Scotia, Canada
- 1999.6: Paper presenter
International Workshop on Special Functions:
Asymptotics, Harmonic Analysis, and Mathematical Physics
Hong Kong, P.R. China
- 1999.7: Invited speaker
International Conference on Applied Partial Differential Equations
Shanghai, P.R. China
- 1999.10: Paper presenter
International Conference on Nonlinear Analysis, Taipei, Taiwan
- 2000.1: Invited speaker
International Conference on Integrable Systems: Kruskal 2000
Adelaide, Australia
- 2000.6: Invited speaker
The 32nd Symposium on Mathematical Physics, Torun, Poland
- 2000.7: Invited speaker
The Third World Congress of Nonlinear Analysts
Editorial Board Meeting of Journal of Nonlinear Mathematical Physics
Catania, Italy
- 2000.10: Invited speaker (45-minutes)
The Third Asian Mathematical Conference (AMC 2000), Manila, Philippines
- 2001.1: Plenary speaker
International Conference on Nonlinear Evolution Equations
and Infinite Dimensional Dynamical Systems, Bangkok, Thailand
- 2001.5: Plenary speaker
International Conference on Nonlinear Evolutionary Equations
and Their Numerical Methods, Xiamen, P.R. China
- 2002.10: Invited speaker
AMS Sectional Meetings, Orlando, FL, USA
- 2002.12: Invited speaker
The 27th Suncoast Regional MAA Meeting, Lakeland, FL, USA
- 2004.6: Invited speaker

- The 4th World Congress of Nonlinear Analysts, Orlando, FL, USA
- 2004.10 Invited speaker
SIAM Conference on Nonlinear Waves and Coherent Structures, Orlando, FL, USA
- 2005.1 Invited speaker
Joint Mathematics Meetings, Atlanta, GA, USA
- 2005.6 Invited speaker (45-minutes)
1st International Conference on Recent Advances in Bifurcation Theory and Applications of Dynamical Systems, Jinhua, Zhejiang, P.R. China
- 2005.8 Invited speaker
International Conference on Differential & Difference Equations and Applications
Florida Institute of Technology, Melbourne, FL, USA
- 2007.1: Invited speaker
Joint Mathematics Meetings, New Orleans, LA, USA
- 2007.8: Invited speaker
7th National Conference on Solitons and Integrable Systems, Xuzhou, Jiangsu, China
- 2008.1: Invited speaker
Joint Mathematics Meetings, San Diego, CA, USA
- 2008.3: Invited speaker
Workshop on Solitons and Integrable Systems, Edinburg, TX, USA
- 2008.3: Invited speaker
32nd SIAM Southeastern-Atlantic Section Conference, Orlando, FL, USA
- 2008.5: Invited speaker
The 7th AIMS International Conference on Dynamical Systems, Differential Equations and Applications, Arlington, TX, USA
- 2008.5: Invited speaker
The 6th International Conference on Differential Equations and Dynamical Systems
Baltimore, MD, USA
- 2008.7: Invited speaker (one-hour)
The Fifth World Congress of Nonlinear Analysts, Orlando, FL, USA
- 2008.10 Invited speaker
International Conference on Nonlinear Mathematical Physics, Jinhua, PR China
- 2009.3: Session speaker
25th Southeastern Analysis Meeting, Tampa, FL, USA
- 2009.3: Invited speaker
The Sixth IMACS International Conference on Nonlinear Evolution Equations and Wave Phenomena: Computation and Theory, Athens, GA, USA
- 2009.7: Plenary speaker
1st International Workshop on Nonlinear and Modern Mathematical Physics
Beijing, China
- 2009.8: Plenary speaker

- The 9th National Conference on Solitons and Integrable Systems
Zhenjiang, China
- 2009.12: 34th Annual Suncoast Regional MAA meeting
Lakeland, FL, USA
- 2010.1: Invited speaker
Joint Mathematics Meetings, San Francisco, CA, USA
- 2010.6: Invited speaker
1st International Conference: Symmetry Plus Integrability 2010
South Padre Island, TX, USA
- 2010.6: Invited speaker
2nd International Conference: Nonlinear Waves–Theory and Applications
Beijing, P.R. China
- 2011.3: Invited speaker
The 7th IMACS International Conference on Nonlinear Evolution Equations
and Wave Phenomena: Computation and Theory, Athens, GA, USA
- 2011.7: Plenary speaker
The 4th International Workshop on Nonlinear Mathematical Physics
and the 11th National Conference on Integrable Systems, Wuhan, P.R. China
- 2012.1: Invited speaker
Joint Mathematics Meetings 2012, Boston, MA, USA
- 2012.3: Invited speaker
AMS Southeastern Section Meeting, USF, FL, USA
- 2012.5: Invited speaker
Symmetries of Differential Equations: Frames, Invariants and Applications
Minneapolis, MN, USA
- 2012.6: Invited speaker
The XXth International Conference on Integrable Systems and Quantum Symmetries
Prague, Czech Republic
- 2012.6: Keynote speaker
World Congress of Nonlinear Analysts 2012, Athens, Greece
- 2013.3: Plenary speaker
2nd International Workshop on Nonlinear and Modern Mathematical Physics
Tampa, FL, USA
- 2013.4: Invited speaker
AMS Spring Eastern Sectional Meeting, Boston, MA, USA
- 2013.8: Plenary speaker
12th National Conference on Integrable Systems, Hangzhou, China
- 2013.10: Plenary speaker
2013 Cross-Strait Joint Conference on Integrable Systems and Related Topics
Taipei, Taiwan

- 2014.8: Plenary speaker
12th International Conference on Nonlinear Partial Differential Equations
Chengdu, Sichuan, China
- 2014.10 Plenary speaker
International Conference on Orthogonal Polynomials, Integrable Systems
and Their Applications, Shanghai, China
- 2015.4: Invited speaker
9th International Conference on Nonlinear Evolution Equations and Wave Phenomena:
Computation and Theory, Athens, GA, USA
- 2015.4: Plenary speaker
3rd International Workshop on Nonlinear and Modern Mathematical Physics
Cape Town, South Africa
- 2015.7: Invited speaker
Annual Meeting of Yunnan Mathematical Society, Yuxi, Yunnan, China
- 2015.8: Invited speaker
13th National Conference on Integrable Systems, Weifang, Shandong, China
- 2016.7: Invited speaker
35th Workshop on Geometric Methods in Physics, Bialowieza, Poland
- 2016.10: Invited speaker
International Conference on Integrable Systems and Differential Equations
Zhenjiang, China
- 2016.11: Invited speaker
He Mu Du Forum, Ningbo, China
- 2017.1: Invited speaker
Joint Mathematics Meetings, Atlanta, GA, USA
- 2017.3: Invited speaker
AMS Spring Southeastern Sectional Meeting, Charleston, SC, USA

14. Invited Seminars and Colloquia

- 1990: Colloquium speaker
Institute of Computational Mathematics, Chinese Academy of Sciences
Beijing, P.R. China
- 1991: Lecture series speaker
Department of Mathematics, Zhengzhou University, Zhengzhou, P.R. China
- 1991: Colloquium speaker
Department of Applied Mathematics, Shanghai Jiao Tong University
Shanghai, P.R. China
- 1992: Colloquium speaker
Institute of Mathematics, Fudan University, Shanghai, P.R. China
- 1993: Colloquium speaker

- Shanghai Institute of Applied Mathematics and Mechanics
Shanghai University, Shanghai, P.R. China
- 1994: Colloquium speaker
Department of Mathematics, University of Hong Kong, Hong Kong, P.R. China
- 1995: Seminar speaker
Department of Mathematics, University of Paderborn, Paderborn, Germany
- 1996: Colloquium speaker
Department of Mathematics, University of Kassel, Kassel, Germany
- 1996: Colloquium speaker
Institute of Theoretic Physics, University of Montpellier II, Montpellier, France
- 1997: Colloquium speaker
Department of Mathematics, UMIST, Manchester, UK
- 1998: Colloquium speaker
Department of Mathematics, Hong Kong Baptist University, Hong Kong, P.R. China
- 1999: Seminar speaker
School of Mathematics, University of Minnesota, Minneapolis, MN, USA
- 1999: Colloquium speaker
Department of Mathematics, Hong Kong Baptist University, Hong Kong, P.R. China
- 2000: Colloquium speaker
School of Mathematical and Computer Sciences, University of New England
Armidale, NSW, Australia
- 2000: Colloquium speaker
Department of Mathematics, National University of Singapore, Singapore
- 2000: Colloquium speaker
Institute of Theoretical Physics, University of Warsaw, Warsaw, Poland
- 2001: Colloquium speaker
Department of Mathematics, Chinese University of Hong Kong
Hong Kong, P.R. China
- 2001: Colloquium speaker
Department of Mathematics, Brock University, St. Catharines, Ontario, Canada
- 2001: Colloquium speaker
Department of Mathematics, City University of Hong Kong, Hong Kong, P.R. China
- 2001: Colloquium speaker
Department of Mathematics, Zhongshan University, Guangzhou, P.R. China
- 2001: Colloquium speaker
Department of Mathematics, University of South Florida, Tampa, FL, USA
- 2003: Seminar speaker
Department of Mathematics, University of Central Florida, Orlando, FL, USA
- 2003: Seminar speaker
Department of Mathematics, Ohio State University, Columbus, OH, USA

- 2003: Colloquium speaker
Department of Mathematical Sciences, Northern Illinois University
DeKalb, IL, USA
- 2005: Colloquium speaker
Department of Applied Mathematics, Tsinghua University, Beijing, P.R. China
- 2005: College colloquium speaker
College of Information Science and Engineering
Shandong University of Science and Technology, Qingdao, P.R. China
- 2005: Colloquium speaker
Department of Mathematics, Beijing University, Beijing, P.R. China
- 2005: Colloquium speaker
College of Sciences, Zhejiang Normal University, Jinhua, Zhejiang, P.R. China
- 2005: Colloquium speaker
Department of Mathematics, Northwest University, Xi'an, Shaanxi, P.R. China
- 2005: Colloquium speaker
School of Mathematical Sciences
Xuzhou Normal University, Xuzhou, Jiangsu, P.R. China
- 2005,06: Colloquium speaker
Institute of Mathematics, Fudan University, Shanghai, P.R. China
- 2005,06: Colloquium speaker
Department of Mathematics, University of Science and Technology of China
Hefei, Anhui, P.R. China
- 2005,06: Colloquium speaker
Department of Mathematics, Shanghai University, Shanghai, P.R. China
- 2006: Graduate colloquium speaker
Graduate School, Northern Illinois University
DeKalb, IL, USA
- 2007: Colloquium speaker
School of Mathematical Sciences, Fudan University
College of Sciences, University of Shanghai for Science and Technology
Department of Mathematics, Shanghai Jiaotong University
Shanghai, P.R. China
- 2007: Colloquium speaker
Department of Mathematics, University of Science and Technology
Hefei, Anhui, P.R. China
- 2007: Seminar speaker
Courant Institute of Mathematical Sciences, New York University
New York, NY, USA
- 2007: Colloquium speaker
Institute of Systems Science, Academia Sinica

- Department of Mathematical Sciences, Tsinghua University
Morningside Center of Mathematics, Academia Sinica
College of Sciences, China University of Mining & Technology (Beijing)
Beijing Institute of Applied Physics and Computational Mathematics
Institute of Mathematics, Academia Sinica
Beijing, P.R. China
- 2007: Colloquium speaker
Department of Applied Mathematics, Dalian University of Technology
Mathematical School, Liaoning Normal University
Dalian, P.R. China
- 2008: Colloquium speaker
Department of Mathematics, Capital Normal University, Beijing, P.R. China
- 2008: Colloquium speaker
School of Software Engineering, East China Normal University, Shanghai
College of Sciences, Ningbo University, Ningbo
Department of Mathematics, Shanghai University, Shanghai
College of Math., Phys. and Info. Engineering, Zhejiang Normal University, Jinhua
College of Sciences, Shaoxing University, Shaoxing
Institute of Mathematics, Zhejiang University, Hangzhou
College of Info. Science and Tech., Shandong Univ. of Science and Technology, Tsingdao
Department of Mathematics, Zhengzhou University, Zhengzhou
Department of Mathematics and
School of Naval Architecture, Ocean and Civil Engineering
Shanghai Jiaotong University, Shanghai, P.R. China
- 2008: Colloquium speaker
Department of Mathematics, Hong Kong Baptist University, Hong Kong
Institute of Mathematics, Academia Sinica, Taipei
Department of Business Mathematics, Soochow University, Taipei
The National Center for Theoretical Sciences, Tsinghua University, Hsinchu
Department of Applied Mathematics, National Chiao Tung University, Hsinchu, Taiwan
- 2009: Colloquium speaker
Southern Polytechnic State University, Marietta, Georgia
- 2009: Colloquium speaker
Shanghai Jiaotong University, Shanghai, China
Fudan University, Shanghai, China
Shanghai University, Shanghai, China
National Huaqiao University, Quanzhou, China
Zhejiang Normal University, Jinhua, China
- 2010: Colloquium speaker
Qsinghua University, Beijing, China

Capital Normal University, Beijing, China
 Institute of Applied Physics and Computational Mathematics, Beijing, China
 Shanghai University, Shanghai, China
 Fudan University, Shanghai, China
 Zhejiang Normal University, Jinhua, China
 Ningbo University, Ningbo, China
 Shaoxing College of Arts and Sciences, Shaoxing, China
 Wuhan Institute of Physical Mathematics, Wuhan, China
 Lanzhou University, Lanzhou, China

2011: Colloquium speaker
 Georgia Southern University, Statesboro, GA, USA
 Fudan University, Shanghai, China
 Shanghai University, Shanghai, China
 Shanghai Second Polytechnic University, Shanghai, China
 Shanghai Jiaotong University, Shanghai, China
 Donghua University, Shanghai, China
 Shenyang Normal University, Sheyang, China
 Bohai University, Jinzhou, China
 Weifang University, Weifan, China
 Zhejiang Normal University, Jinhua, China

2012: Seminar speaker
 Department of Mathematics and Statistics
 University of South Florida, Tampa, FL, USA

2012: Colloquium speaker
 Department of Mathematics
 University of Central Florida, Orlando, FL, USA

2013: Seminar speaker
 Department of Mathematics and Statistics
 University of South Florida, Tampa, FL, USA

2013: Colloquium speaker
 Department of Mathematics, Shanghai University, Shanghai, China
 School of Mathematical Sciences, Fudan University, Shanghai, China
 Department of Mathematics, Shanghai Jiaotong University, Shanghai, China
 Department of Applied Mathematics,
 Northwestern Polytechnical University, Xian, China
 College of Computer Science, Shannxi Normal University, Xian, China
 College of Information Science and Engineering,
 Shandong University of Science and Technology, Qingdao, China
 College of Mathematical Sciences, Qingdao University, Qingdao, China
 School of Mathematical Sciences, Capital Normal University, Beijing, China

Institute of Computational Mathematics,
 Chinese Academy of Sciences, Beijing, China
 College of Mathematics and Physics,
 Shanghai University of Electric Power, Shanghai, China
 Department of Mathematics, Zhejiang Normal University, Jinhua, China
 2014: Colloquium speaker
 Department of Mathematics, Shanghai Jiaotong University, Shanghai, China
 Department of Mathematics, Shanghai University, Shanghai, China
 College of Sciences, Shanghai Second Polytechnic University, Shanghai, China
 Software Engineering Institute, East China Normal University, Shanghai, China
 College of Sciences, China University of Mining and Technology, Xuzhou, China
 College of Mathematics and System Science,
 Shandong University of Science and Technology, Qingdao, China
 College of Mathematics and Physics,
 Shanghai University of Electric Power, Shanghai, China
 College of Mathematics Physics and Information Technology,
 Zhejiang Normal University, Jinhua, China
 College of Sciences, Lishui University, Lishui, China
 Mathematical Information College, Shaoxing University, Shaoxing, China
 2015: Colloquium speaker
 Chinese Academy of Sciences, Beijing, China
 China Agricultural University, Beijing, China
 College of Charleston, SC, USA
 China University of Mining & Technology, Beijing, China
 Donghua University, Shanghai, China
 East China Normal University, Shanghai, China
 Fudan University, Shanghai, China
 Guilin University of Electronic Technology, Guilin, China
 Kunming University of Science and Technology, Yunnan, China
 Ningbo University, Ningbo, China
 Shandong University of Science and Technology, Qingdao, China
 Shanghai Jiaotong University, Shanghai, China
 Shanghai University, Shanghai, China
 Shanghai University of Electric Power, Shanghai, China
 Shaoxing University, Shaoxing, China
 Tsinghua University, Beijing, China
 University of South Florida, Tampa, USA
 Yunnan University, Kunming, China
 Yunnan University of Nationalities, Kunming, China
 Zhejiang Normal University, Jinhua, China

Zhejiang Sci-Tech University, Hangzhou, China
Zhejiang University of Technology, Hangzhou, China
2016: Colloquium speaker
Beijing Information Science and Technology University, Beijing, China
Beijing Jiaotong University, Beijing, China
Beijing University of Chemical Technology, Beijing, China
Brandeis University, Boston, USA
Chinese Academy of Sciences, Beijing, China
China Agricultural University, Beijing, China
Capital Normal University, Beijing, China
China University of Mining & Technology, Xuzhou, China
Donghua University, Shanghai, China
East China Normal University, Shanghai, China
East China University of Science and Technology, Shanghai, China
Fudan University, Shanghai, China
Huaqiao University, Quanzhou, China
Jiangnan University, Wuxi, China
Jiangsu Normal University, Xuzhou, China
Ningbo University, Ningbo, China
North China Electric Power University, Beijing, China
Northeast Normal University, Changchun, China
North-West University, Mmabatho, South Africa
Nanjing Normal University, Nanjing, China
North China Electric Power University, Beijing, China
Northeastern University, Boston, USA
Shanghai University, Shanghai, China
Shanghai Jiao Tong University, Shanghai, China
Shanghai Maritime University, Shanghai, China
Shanghai Second Polytechnic University, Shanghai, China
Shanghai University of Engineering Science, Shanghai, China
Shanghai University of International Business and Economics, Shanghai, China
Tsinghua University, Beijing, China
University of Shanghai for Science and Technology, Shanghai, China
University of Witwatersrand, Johannesburg, South Africa
Xuzhou Institute of Technology, Xuzhou, China
Zhejiang Normal University, Jinhua, China
Zhejiang University of Technology, Hangzhou, China
Zhengzhou University, Zhengzhou, Henan, China

15. Publications

15.1. Journal papers

- [1] J. Yu, W. X. Ma, J. W. Han and S. T. Chen, An integrable generalization of the super AKNS hierarchy and its bi-Hamiltonian formulation *Communications in Nonlinear Science and Numerical Simulation*, Vol.43(2017), 151-157
- [2] J. Y. Yang and W. X. Ma, Conservation laws of a perturbed Kaup-Newell equation, *Modern Physics Letters B*, Vol.30(2016), 1650381
- [3] W. X. Ma, Lump-type solutions to the (3+1)-dimensional Jimbo-Miwa equation, *International Journal of Nonlinear Sciences and Numerical Simulation*, Vol.17(2016), 355-359
- [4] L. Zhang, C. M. Khalique and W. X. Ma, Classifying bilinear differential equations by linear superposition principle, *International Journal of Modern Physics B*, Vol.30(2016), 1640029
- [5] J. Y. Yang and W. X. Ma, Lump solutions to the BKP equation by symbolic computation, *International Journal of Modern Physics B*, Vol.30(2016), 1640028
- [6] W. X. Ma, Y. Zhou and R. Dougherty, Lump-type solutions to nonlinear differential equations derived from generalized bilinear equations, *International Journal of Modern Physics B*, Vol.30(2016), 1640018
- [7] X. Lü, S. T. Chen and W. X. Ma, Constructing lump solutions to a generalized Kadomtsev-Petviashvili-Boussinesq equation, *Nonlinear Dynamics*, Vol.86(2016), 523-534
- [8] W. X. Ma and Yuan Zhou, Reduced D-Kaup-Newell soliton hierarchies from $sl(2, \mathbb{R})$ and $so(3, \mathbb{R})$, *International Journal of Geometric Methods in Modern Physics*, Vol.13(2016), 1650105
- [9] X. Lü and W. X. Ma, Study of lump dynamics based on a dimensionally reduced Hirota bilinear equation, *Nonlinear Dynamics*, Vol.85(2016), 1217-1222
- [10] Y. Q. Yao, S. F. Shen and W. X. Ma, A soliton hierarchy associated with a spectral problem of 2nd degree in a spectral parameter and its bi-Hamiltonian structure, *Advances in Mathematical Physics*, Vol.2016(2016), Article ID 3589704, 6 pages
- [11] Y. J. Ye, Z. H. Li, C. X. Li, S. F. Shen and W. X. Ma, A generalized Dirac soliton hierarchy and its bi-Hamiltonian structure, *Applied Mathematics Letters*, Vol.60(2016), 67-72
- [12] X. Lü, W. X. Ma, Y. Zhou and C. M. Khalique, Rational solutions to an extended Kadomtsev-Petviashvili-like equation with symbolic computation, *Computers and Mathematics with Applications*, Vol.71(2016), 1560-1567

- [13] Ö. Ünsal and W. X. Ma, Linear superposition principle of hyperbolic and trigonometric function solutions to generalized bilinear equations, *Computers and Mathematics with Applications*, Vol.71(2016), 1242-1247
- [14] X. Lü, W. X. Ma, S. T. Chen and C. M. Khalique, A note on rational solutions to a Hirota-Satsuma-like equation, *Applied Mathematics Letters*, Vol.58(2016), 13-18
- [15] W. X. Ma, Z. Y. Qin and X. L, Lump solutions to dimensionally reduced p-gKP and p-gBKP equations, *Nonlinear Dynamics*, Vol.84(2016), 923-931
- [16] W. X. Ma, J. H. Meng and M. S. Zhang, Nonlinear bi-integrable couplings with Hamiltonian structures, *Mathematics and Computers in Simulation*, Vol.127(2016), 166-177
- [17] X. Lü, W. X. Ma, J. Yu and C. M. Khalique, Solitary waves with the Madelung fluid description: A generalized derivative nonlinear Schrödinger equation, *Communications in Nonlinear Science and Numerical Simulation*, Vol.31(2016), 40-46
- [18] X. Lü, W. X. Ma, J. Yu, F. H. Lin and C. M. Khalique, Envelope bright- and dark-soliton solutions for the GerdjikovIvanov model, *Nonlinear Dynamics* Vol.82(2015), 1211-1220
- [19] X. Lü, W. X. Ma and C. M. Khalique, A direct bilinear Bäcklund transformation of a (2+1)-dimensional Kortewegde Vries-like model, *Applied Mathematics Letters*, Vol.50(2015), 37-42
- [20] W. X. Ma, Lump solutions to the KadomtsevPetviashvili equation, *Physics Letters A*, Vol.379(2015), 1975-1978
- [21] Y. F. Zhang and W. X. Ma, A study on rational solutions to a KP-like equation, *Zeitschrift für Naturforschung A*, Vol70(2015), 203-300
- [22] C. G. Shi, B. Z. Zhao, W. X. Ma, Exact rational solutions to a Boussinesq-like equation in (1+1)-dimensions, *Applied Mathematics Letters*, Vol.48(2015), 170-176
- [23] L. Y. Jiang, Y. Y. Jin, W. X. Ma, S. F. Shen and H. Y. Zhu, Novel soliton hierarchies of Levi type and their bi-Hamiltonian structures, *Communications in Nonlinear Science and Numerical Simulation*, Vol.23(2015), 388-396
- [24] S. M. Yu, Y. Q. Yao, S. F. Shen and W. X. Ma, Bi-integrable couplings of a Kaup-Newell type soliton hierarchy and their bi-Hamiltonian structures, *Communications in Nonlinear Science and Numerical Simulation*, Vol.23(2015), 366-377
- [25] Y. Zhang and W. X. Ma, Rational solutions to a KdV-like equation, *Applied Mathematics and Computation*, Vol.256(2015), 252-256
- [26] S. F. Shen, L. Y. Jiang, Y. Y. Jin and W.X. Ma, New soliton hierarchies associated with the Lie algebra $so(3, \mathbb{R})$ and their bi-Hamiltonian structures, *Reports on Mathematical Physics*, Vol.75(2015), 113-133

- [27] H. Y. Zhu, S. M. Yu, S. F. Shen and W. X. Ma, New integrable $sl(2, \mathbb{R})$ -generalization of the classical Wadati-Konno-Ichikawa hierarchy, *Communications in Nonlinear Science and Numerical Simulation*, Vol.22(2015), 1341-1349
- [28] M. Solomon, W. X. Ma and E. Appiah, A tri-Hamiltonian formulation of a new soliton hierarchy associated with $so(3, \mathbb{R})$, *Applied Mathematics Letters*, Vol.39(2015), 28-30
- [29] Y. N. Tang, L. Wang and W. X. Ma, Integrable couplings, bi-integrable couplings and their Hamiltonian structures of the GiachettiJohnson soliton hierarchy, *Mathematical Methods in the Applied Sciences*, Vol.38(2015), 2305-2315
- [30] W. G. Rui, W. X. Ma, C. M. Khalique and Z. N. Zhu, Study of Integrability and Exact Solutions for Nonlinear Evolution Equations, Special Issue, *Abstract and Applied Analysis*, (2014)
- [31] H. Q. Zhang and W. X. Ma, Extended transformed rational function method and applications to complexiton solutions, *Applied Mathematics and Computation*, Vol.230(2014), 509-515
- [32] W. Y. Zhang and W. X. Ma, An $so(3, \mathbb{R})$ Counterpart of the Dirac soliton hierarchy and its bi-integrable couplings, *International Journal of Theoretical Physics*, Vol.53(2014), 4211-4222
- [33] S. Manukure and W. X. Ma, Bi-integrable couplings of a new soliton hierarchy associated with a non-semisimple Lie algebra, *Applied Mathematics and Computation*, Vol.245(2014), 44-52
- [34] Y. J. Ye, W. X. Ma, S. F. Shen and D. D. Zhang, A class of third-order nonlinear evolution equations admitting invariant subspaces and associated reductions, *Journal of Nonlinear Mathematical Physics*, Vol.(2014), 132-148
- [35] C. G. Shi, W. X. Ma and M. McAnally, Integrable counterparts of the D-Kaup-Newell soliton hierarchy, *Applied Mathematics and Computation*, Vol.248(2014), 463-469
- [36] W. X. Ma, C. G. Shi, E. A. Appiah, C. X. Li and S. F. Shen, An integrable generalization of the KaupNewell soliton hierarchy, *Physica Scripta*, Vol.89(2014), 085203, pp. 8
- [37] W. X. Ma, S. F. Shen, S. M. Yu, H. Q. Zhang and W. Y. Zhang, An integrable $so(3, \mathbb{R})$ -counterpart of the Heisenberg soliton hierarchy, *Reports on Mathematical Physics*, Vol.74(2014), 283-298
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