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Academic Qualification:

Ph.D. in Mathematics, Lanzhou University, 1996

Master in Mathematics, Lanzhou University, 1993

Bachelor in Applied Mathematics, Lanzhou University, 1990

Teaching Area

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Research Area

Nonlinear Partial Differential Equations; Applicable Analysis

Working Experience

Distinguished Guest Professor, Faculty of Information Technology, MUST, 2013 - present

Professor, Department of Mathematics, Sun Yat-sen University, China, Jul. 2006 - present

Visiting Professor, Courant Institute of Mathematical Sciences, New York University, USA, Feb. 2012 - Jan. 2013

Alexander von Humboldt Fellow, Institute for Applied Mathematics, Leibniz University of Hanover, Germany, Aug. 2005 - Sept. 2007

Visiting Researcher, Department of Mathematics, Lund University, Sweden, Feb. 2002 - Feb. 2003

Associate Professor, Department of Mathematics, Sun Yat-sen University, China, Jun. 1999 - Jun. 2006

Lecturer, Department of Mathematics, Sun Yat-sen University, China, Jul. 1998 - May 1999

Postdoctoral Fellow, Department of Physics, Sun Yat-sen University, China, Jul. 1996 - Jun. 1998

Academic Publication

K. Yan and Z. Yin, Initial boundary value problems for the two-component shallow water systems, *Revista Matemática Iberoamericana*, 29 (2013), 911-938.

K. Yan and Z. Yin, Well-posedness for a modified two-component Camassa-Holm system in critical spaces, *Discrete Contin. Dyn. Syst. Series A*, 33 (2013), no. 4, 1699 - 1712.

C. Guan and Z. Yin, Global weak solutions for a periodic two-component Hunter-Saxton system, *Quart. Appl. Math.*, 70:2 (2012), 285-297.

X. Wu and Z. Yin, Well-posedness and global existence for the Novikov equation, *Ann. Sc. Norm. Super. Pisa Cl. Sci. (5)*, 11:3 (2012), 707-727.

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X. Liu and Z. Yin, Orbital stability of the sum of N peakons for the Dullin-Gottwald-Holm equation, *Nonlinear Anal. Real World Appl.* 13:5 (2012), 2414–2422.

J. Liu and Z. Yin, On the blow-up phenomena for a modified periodic two-component Camassa–Holm equation, *IMA J. Appl. Math.*, 77:4 (2012), 563–577.

W. Tan and Z. Yin, Global periodic conservative solutions of a periodic modified two-component Camassa–Holm equation, *J. Funct. Anal.*, 261 (2011), 1204–1226.

W. Tan and Z. Yin, Global conservative solutions of a modified two-component Camassa–Holm shallow water system, *J. Differential Equations*, 251 (2011), 3558–3582.

C. Guan and Z. Yin, Global weak solutions for a two-component Camassa–Holm shallow water system, *Journal of Functional Analysis*, 260 (2011), 1132–1154.

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K. Yan and Z. Yin, Analytic solutions of the Cauchy problem for two-component shallow water systems, *Mathematische Zeitschrift*, 269:3-4 (2011), 1113–1127.

X. Wu and Z. Yin, Global weak solutions for the Novikov equation, *J. Phys. A: Math. Theor.*, 44 (2011), 055202 (17pp)

Q. Hu and Z. Yin, Well-posedness and blowup phenomena for a 2-component periodic Camassa-Holm equation, *Proc. Roy. Soc. Edinburgh Sect. A*, 14: 1 (2011), 93–107.

C. Guan and Z. Yin, Global existence and blow-up phenomena for an integrable two-component Camassa-Holm shallow water system, *J. Differential Equations*, 248 (2010), 2003–2014.

S. Zhang and Z. Yin, Global solutions and blow-up phenomena for the periodic b-equation, *J. London Math. Soc.*(2), 82 (2010), 482–500.

Y. Fu and Z. Yin, Existence and singularities of solutions to an integrable equation governing short-waves in a long-wave model, *J. Math. Phys.*, 51 (2010), 093509:1–16.

J. Escher and Z. Yin, Initial boundary value problems for nonlinear dispersive wave equations, *J. Funct. Anal.*, 256:2 (2009), 479–508.

S. Wu and Z. Yin, Global existence and blow-up phenomena for the weakly dissipative Camassa-Holm equation, *J. Differential Equations*, 246 (2009), 4309–4321.

J. Escher and Z. Yin, Well-posedness, blow-up phenomena, and global solutions for the b-equation, *Journal für die reine und angewandte Mathematik*, 624 (2008), 51–80

J. Escher and Z. Yin, Initial boundary value problems of the Camassa-Holm equation, *Commun. Partial Differential Equations*, 33 (2008), 1–19.

S. Wu and Z. Yin, Blow-up and decay of the solution of the weakly dissipative Degasperis—Procesi equation, *SIAM J. Math. Anal.*, 40:2 (2008), 475–490.

J. Escher, O. Lechtenfeld and Z. Yin, Well-posedness and blow-up phenomena for the 2-component Camassa-Holm equation, *Discrete Contin. Dyn. Syst. Series A*, 19:3 (2007), 493–513.

J. Escher, Y. Liu and Z. Yin, Shock waves and blow-up phenomena for the periodic Degasperis-Procesi equation, *Indiana Univ. Math. J.*, 56:1 (2007), 87–117.

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Y. Liu and Z. Yin, Global existence and blow-up phenomena for the Degasperis-Procesi equation, *Comm. Math. Phys.*, 267:3 (2006), 801–820.

J. Escher, Y. Liu, and Z. Yin, Global weak solutions and blow-up structure for the Degasperis-Procesi equation, *J. Funct. Anal.*, 241:2 (2006), 457–485.

Z. Yin, Global existence for quasilinear parabolic systems with homogeneous Neumann boundary conditions, *NoDEA Nonlinear Differential Equations and Appl.*, 13 (2006), 235–248.

Z. Yin, Global weak solutions for a periodic integrable shallow water equation with linear and nonlinear dispersion, *Dyn. Contin. Discrete Impuls. Syst. Ser. A Math. Anal.*, 12:6 (2005), 739–754.

- J. Escher and Z. Yin, On the stability of equilibria to weakly coupled parabolic systems in unbounded domains, *Nonlinear Anal.*, 60:6 (2005), 1065-1084.
- Z. Yin, Global weak solutions for a new periodic integrable equation with peakon solutions, *J. Funct. Anal.*, 212:1 (2004), 182-194.
- Z. Yin, On the blow-up scenario for the generalized Camassa-Holm equation, *Commun. Partial Differential Equations*, 29:5-6 (2004), 867-877.
- Z. Yin, Global solutions to a new integrable equation with peakons, *Indiana Univ. Math. J.*, 53:4 (2004), 1189-1210.
- Z. Yin, On the structure of solutions to the periodic Hunter-Saxton equation, *SIAM J. Math. Anal.*, 36:1 (2004), 272-283.
- A. Constantin, J. Escher and Z. Yin, Global Solutions for Quasilinear Parabolic Systems, *J. Differential Equations*, 197:1 (2004), 73-84.
- Z. Yin, Well-posedness, global existence and blowup phenomena for an integrable shallow water equation, *Discrete Contin. Dyn. Syst.*, 10:2-3 (2004), 393-411.
- Z. Yin, Well-posedness, global solutions and blowup phenomena for a nonlinearly dispersive wave equation, *J. Evol. Equ.*, 4:3 (2004), 391--419.
- Z. Yin, Bounded positive solutions of Schrödinger equations in two-dimensional exterior domains, *Monatsh. Math.*, 141:4 (2004), 337-344.
- Z. Yin, On the Cauchy problem for an integrable equation with peakon solution, *Illinois J. Math.*, 47:3 (2003), 649-666.
- Z. Yin, Global existence for elliptic equations with dynamic boundary conditions, *Arch. Math. (Basel)*, 81:5 (2003), 567-574.