

Tianling Jin

Contact Information

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Personal Data

Date of Birth August 12, 1984
Place of Birth Haining, China
Citizenship China

Appointments

2012- L.E. Dickson Instructor, The University of Chicago.

Education

2006-2012 Ph.D. in Mathematics, Rutgers University- New Brunswick.
Advisor: YanYan Li
2002-2006 B.S. in Mathematics, University of Science and Technology of China.

Research Interests

Partial differential equations and applications

Publications/Preprints and Current Work

- T. Jin and J. Xiong, *Sharp constants in weighted trace inequalities on Riemannian manifolds*, arXiv:1203.1003v1.
- T. Jin, Y.Y. Li and J. Xiong, *On a fractional Nirenberg problem, part II: existence of solutions*, preprint.
- T. Jin, Y.Y. Li and J. Xiong, *On a fractional Nirenberg problem, part I: blow up analysis and compactness of solutions*, arXiv:1111.1332v1.
- T. Jin and J. Xiong, *A fractional Yamabe flow and some applications*, arXiv:1110.5664v1.

- T. Jin and Y.Y. Li, *On an integral equation of partially conformal invariance*, preprint.
- T. Jin, *Symmetry and nonexistence of positive solutions of elliptic equations and systems with Hardy terms*, Ann. Inst. H. Poincaré Anal. Non Linéaire **28** (2011), no. 6, 965–981.
- T. Jin, V. Maz'ya and J. Van Schaftingen, *Pathological solutions to elliptic problems in divergence form with continuous coefficients*, C. R. Math. Acad. Sci. Paris **347** (2009), no. 13–14, 773–778.

Awards and Fellowships

- 2012 Dean's Research Award, Rutgers University.
- 2011-2012 University and Louis Bevier Dissertation Fellowship, Rutgers University.
- 2010-2011 Rutgers University School of Art and Science Excellence Fellowship.
- 2006-2010 Teaching Assistantship, Rutgers University.
- 2006-2007 Weill Fellowship, Rutgers University.

Invited/upcoming Talks

- April 2012 Differential Geometry and Geometric Analysis, Princeton University.
- April 2012 Geometry & Analysis Seminar, Columbia University.
- January 2012 Analysis Seminar, Courant Institute at NYU.
- November 2011 Nonlinear analysis and PDEs seminar, Graduate Center at CUNY.
- October 2011 Nonlinear Analysis seminar, Rutgers University.

Graduate Student Seminars

- Fall 2011 Introduction to Mathematics at Rutgers for entering Ph.D. Students.
- Spring 2011 Student Seminar on PDEs and Applications at Rutgers University.
- Spring 2009 Pizza seminar at Rutgers University.

Teaching Experience at Rutgers University

Instructor

- Summer 2008 Math 250 Introductory Linear Algebra.

Teaching Assistant

- Spring 2010 Math 152 Calculus II.
- Fall 2009 Math 135 Calculus I.
- Spring 2009 Math 152 Calculus II.
- Fall 2008 Math 151 Calculus I.
- Spring 2008 Math 135 Calculus I.
- Fall 2007 Math 135 Calculus I.

Conference Participation

- June 2012, Progress in Nonlinear Partial Differential Equations, Zhejiang University, Hang Zhou, China.
- May 2012, The 5th Symposium on Analysis and PDEs, Purdue University.
- May 2012, Concentration month on nonlinear elliptic PDEs, University of Chicago.
- May 2011, Analysis and Applications: A Conference in Honor of Elias M. Stein, Princeton University.
- May 2010, International Symposium in memory of C-C Hsiung, Lehigh University.
- May 2009, The Power of Analysis, Conference on the occasion of Charles Fefferman 60th birthday, Princeton University.
- April 2009, The Twelfth Rivière-Fabes Symposium on Analysis and PDEs, University of Minnesota.
- February 2009, Workshop on Geometric Partial Differential Equations, Institute of Advanced Study.
- 2008-2009, Special Program on Geometric Partial Differential Equations, Institute of Advanced Study.
- October 2008, The conference on Nonlinear Geometric Analysis in honor of Alice Chang and Paul Yang, Princeton University.
- October 2007, AMS Fall Eastern Section Meeting, Rutgers University.

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