

CURRICULUM VITAE

Mu-Tao Wang

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Mailing Address

Department of Mathematics
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Research Interests: Differential Geometry (53), Discrete Groups (22), Partial Differential Equations (35), and General Relativity (83).

Education

- Ph. D. in Mathematics, 1998, Harvard University, Cambridge, MA, U.S.A. Thesis advisor Professor Shing-Tung Yau, “ *Generalized harmonic maps and representations of discrete groups*”.
- M.S. in Mathematics, 1992, National Taiwan University, Taiwan.
- B.S. in Mathematics, 1988, National Taiwan University, Taiwan.

Employment

- 2009-present: Professor, Department of Mathematics, Columbia University.
- 2004-2009: Associate Professor, Department of Mathematics, Columbia University.
- 2001-2004: Assistant Professor, Department of Mathematics, Columbia University.
- 1998-2001: Szégo Assistant Professor, Department of Mathematics, Stanford University.

Awards and Grants

- Morningside Gold Medal, International Congress of Chinese Mathematicians, 2010.
- Chern Prize, International Congress of Chinese Mathematicians, 2007.

- Kavli Fellow, National Academy of Sciences, 2007.
- Sloan Research Fellow, Alfred P. Sloan Foundation, 2003-2005.
- Harold M. Bacon Memorial Teaching Award, Stanford University, 2000.
- National Science Foundation Grant, 2001-present.

Selected Invited Talks in the Past Five Years

- Plenary speaker at the fifth International Congress of Chinese Mathematicians, Dec. 2010.
- Oklahoma PDE workshop, University of Oklahoma, Oct. 2010.
- Quantum Theory and Gravity, Regensburg, Germany, Sep. 2010.
- Calculus of Variation, Oberwolfach, Germany, Jul. 2010.
- GR 19, Mexico City, Mexico, Jul. 2010.
- Geometric Analysis and General Relativity, Banff, Canada, June 2010.
- Connections in Geometry and Physics, Perimeter Institute, Waterloo, Canada, May 2010.
- Arkansas Spring Lectures, University of Arkansas, Mar. 2010.
- Pacific Northwest Geometry Seminar, Stanford University, Feb. 2010.
- General Relativity and Geometric Analysis Workshop, Monash University, Australia, Jan. 2010
- Workshop on General Relativity, Simon's center, Stony Brook, Nov. 2009
- Black Holes in Relativity, MSRI, Berkeley Sep. 2009
- Complex and Differential Geometry, Leibniz Universitate, Germany, Sep. 2009
- International Conference of Mathematics, Taipei, Taiwan. Jul. 2009
- Workshop on Ricci flow, Pisa, Italy, Jun. 2009
- Workshop in string theory, general relativity and PDE's, Cambridge, MA, May/Jun., 2009

- Conference on geometry, Warsaw, Poland, Mar. 2009
- Pacific Rim geometry conference, Taipei, Taiwan, Dec. 2008
- Nonlinear evolution equations, Oberwolfach, Germany, Jun. 2008
- Workshop on geometric evolution equations, CRM Montreal, Apr. 2008
- Invited speaker at the fourth International Congress of Chinese Mathematicians, Dec. 2007
- Invited address at AMS meeting, New Brunswick, NJ, Oct. 2007
- Hong Kong Geometry Colloquium, CUHK, Hong Kong, Feb. 2007
- Geometry of singularities, Sendai, Japan, Jan. 2007
- Midwest Geometry Conference, University of Oklahoma, May, 2006.
- New Perspectives in Geometric Analysis Conference, University of Toledo, May. 2006.
- Workshop on Geometric Flows, Harvard University, Mar. 2006.
- Southern California Geometric Analysis Seminar, UCI, Feb. 2006.
- Distinguished Lecture Series, Tsing-Hua University, Taiwan, Jan. 2006.
- Seminar and Colloquium talks: Harvard (Mar. 2008, Mar. 2010), U.C. Irvine (Apr. 2007) Stanford (Jan. 2008, Apr. 2009), Courant Institute, NYU (Mar. 2008) Princeton (Apr. 2008), Brown (Mar. 2008), U.C. San Diego (Apr. 2007). UQAM, Montreal, Canada (Apr. 2007), Max Planck Institute for Gravitational Physics, Germany (June 2008), University of Toledo (Oct. 2008), Stony Brook (Nov. 2008), Cornell (Mar. 2009), University of Tennessee, Knoxville (Nov. 2009), Lehigh (Mar. 2010), Ohio State (May 2010), Leibniz Universitate, Germany (Jul. 2010)

Service to University and Department

- Committee on science instruction, Columbia College, 2006-2007.
- Chair of short-term visitor committee, 2006-present.
- Graduate admission committee, 2005-2009.

- Co-chair of department colloquium committee, 2004-present.
- Co-organizer of geometry and analysis seminar, 2002-2009.
- Co-organizer of joint Columbia-Stony Brook general relativity seminar, 2010-present.

Service to Profession

Conference and Workshop organized in the past five years

- 2007 International Conference on geometric analysis, TIMS, June 18-22, 2007
- The 9th Pacific Rim Geometry conference, December 10-16, 2008.
- Special session on “Elliptic and parabolic problems in Geometry”, AMS sectional meeting, Newark, New Jersey, May 22-23, 2010.

Referee articles for Journal für die reine und angewandte Mathematik, Annales de l'ENS, Journal of AMS, Journal of Differential Geometry, American Journal of Mathematics, Communications in PDE, Communication in Analysis and Geometry, Mathematical Research Letter, Manuscripta Mathematica, Duke Math Journal, Advance in Mathematics, Geometriae Dedicata, Transactions of AMS, Proceedings of AMS.