

Curriculum Vitae

THALIA D. JEFFRES

July, 2009

Department of Mathematics and Statistics
Wichita State University
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Academic Positions

Assistant Professor, Wichita State University
September 2004 through present
Research Professor, Universidad Michoacana, 1998-2004
Visiting Assistant Professor, University of California at Irvine
September 1996 through July 1998
Fellowship, Bourse Chateaubriand, École Polytechnique, Paris
April 1997 - September 1997.

Education

1990-1996 SUNY at Stony Brook, Ph.D., 1996
Title of Doctoral Thesis: Kähler-Einstein Cone Metrics
Thesis Advisor: Gang Tian
1989-1990 University of North Carolina at Chapel Hill
1987 Dartmouth College, MA in Mathematics
1985 Johns Hopkins, BA in mathematics, cum laude

Publications and Accepted Papers

Gauss Curvature Flow on Surfaces of Revolution, accepted to *Advances in Geometry*, June, 2008.

Vertical Blow Ups of Capillary Surfaces in R^3 Part II: Nonconvex Corners, with Kirk Lancaster, *Electron. J. Diff. Eqns.* Vol. 2008 (2008), No. 160, 1-25.

Vertical Blow Ups of Capillary Surfaces in R^3 Part I : Convex Corners, with Kirk Lancaster, *Electronic Journal of Differential Equations*, Vol. 2007 (2007), No. 152, 1-24.

Maximum Principle for Parabolic Equations on a Manifold with Cone Singularities, *Adv. Geom.* **5** (2005), 319-323.

Regularity of the Heat Operator on a Manifold with Cylindrical Ends, *Pacific J. Math.* **215** (2004), no. 2, 331-345.

Regularity of the Heat Operator on a Cone, with Paul Loya, *Internat. Math. Res. Notices*, **2003**, no. 3, 161-178.

Uniqueness of Kähler-Einstein Cone Metrics, *Pub. Math.* Vol. 44, 2000, 437-448.

Schwarz Lemma for Kähler Cone Metrics, *Internat. Math. Res. Notices*, **2000**, no. 7, 371-382.

Singular Sets of some Kähler Orbifolds, *Trans. Amer. Math. Soc.*, **349** (1997) No. 5, 1961-1971.

Kähler-Einstein Cone Metrics, thesis, 1996.

Presentations in Seminars or Conferences

Survey of Partial Differential Equations I and II

Wichita State University, Analysis Seminar, October 2008

MSRI Analysis on Singular Spaces program, August, 2008

Vertical Blow-Ups and Applications to Capillarity

UC Santa Barbara, Seminar, February 2009

Wichita State University, Lecture Series, October, 2008

SAGE workshop, University of Texas, Austin, May 2008

AMS meeting, Tucson, April 2007

MSRI Geometric Analysis Seminar, November, 2006

Gauss Curvature Flow on Surfaces of Revolution

Baylor University, Colloquium, March 2008

Wichita State University, Lecture Series, February 2007

New College of Florida, Colloquium, November 2006

Regularity of the Heat Operator on Cone Manifolds

Mathematical Sciences Research Institute, November, 2006

University of Oregon at Eugene, Geometry Seminar, April, 2006

Geometric Analysis Seminar, CUNY Graduate Center, March 2003

Treves Seminar, Rutgers University, February 2003

Geometry Seminar, University of Toronto, February 2003

CRM University of Montreal, February 2003

PDE's on Noncompact Manifolds, Penn State, December 2002

Seminar, North Carolina State University, October 2002

Colloquium, UNAM-Cuernavaca, July 2002

Colloquium, Universidad Michoacana, May, 2002

Schwarz Lemma for Kähler Cone Metrics

Geometry Seminar, University of Toronto, April 2002

Colloquium, UNAM-Morelia, September 2001

Colloquium, Universidad Michoacana, June 2001

Special Session in Complex Analysis, Joint Meeting AMS-SMM, May 2001

Seminar in PDE and Analysis, SUNY Stony Brook, November 2000

Seminar in Geometry, CIMAT-Guanajuato, July 2000
Two Geometric Problems for Cone Metrics
 Colloquium, Universidad Michoacana, February 2002
 Seminar, Universidad de Sonora, October 1999
 Colloquium, North Carolina State at Raleigh, August 1999
 Special Session in Geometry, Joint Meeting AMS-SMM, May 1999
Applications of a Maximum Principle for Cone Singularities
 Technology Conference, Universidad Michoacana, December 1998
Singular Kähler-Einstein Metrics I and II
 Seminar, Universidad Michoacana, November 1997
Kähler-Einstein Cone Metrics
 Geometry Seminar, University of Texas at Austin, February 2000
 Geometry and Topology Seminar, UC Irvine, October 1997
 Conference, Mathematische Forschungsinstitut Oberwolfach, June 1997
 Geometry Seminar, Ecole Polytechnique, May 1997
 Seminar, Stanford, March 1997
Singular Sets of Some Kähler Orbifolds
 Seminario Interinstitucional en Geometria Algebraica, September 1999
 Seminar, University of California at Irvine, October, 1996
 Seminar, l'Universite de Quebec a Montreal, February 1995
 Seminar, Rice University, October, 1994

Expository Talks and Outreach Activities

Challenges Facing Women in Mathematics,
 Hypatia Seminar, UC Santa Barbara, February, 2009
Capillarity in Containers with Corners,
 Graduate Student Seminar, Wichita State University, September, 2008
 SAGE workshop, UT Austin, May 2008
Curvature Evolution and Spectral Functions,
 Graduate Student Seminar, Wichita State University, November, 2007
Mathematics in College and Beyond
 Upward Bound program, Wichita State University, June 2008
 Eighth Grade campus visit, Wichita State University, April 2007
 West High, Wichita, April 2006
What Does it Mean to do Research in Mathematics?
 Radio interviews, Radio Nicolaita, Morelia, Michoacana, 1999 and 2002
Mini-Course: Problemas de Evolucion en Geometria Diferencial
 IV Meeting in Differential Geometry, CIMAT-Guanajuato, November 2000
Curvas, Evolucion de Curvatura, y Difusion
 SUNY Oneonta, March 2003
 Universidad Michoacana, November 1998

Scholarships and Funding Awards

Research in Pairs, Mathematisches Forschungsinstitut Oberwolfach, July 2009
Kansas NSF-Epscor, 2005-2006.
General Memberships, Mathematical Sciences Research Institute, 2004, 2006, and 2008
Membership, Institut de Hautes Etudes Scientifiques, January 2001
Sistema Nacional de Investigadores, Level 1, 2003-2004.
Sistema Nacional de Investigadores, Candidato Level, 2000-2003
Desempeño de Personal Docente, 2000 - 2004
Consejo de la Investigacion Cientifica, 1999-2004
Committee On Research in Physical Sciences, UC Irvine, 1998
Fellowship Bourse Chateaubriand, 1997
RGI Summer School, Park City, 1992

Professional Activities and Service

Committee Member, Master's thesis, Kamielle Freeman, degree expected Spring 2010.
Calculus Committee, Wichita State University, since fall 2008.
College Council, Wichita State University, 2006-2009; chair AY 2008-2009.
Faculty Senate, Wichita State University, Fall 2007.
Committee Member, PhD thesis, Theodore Mark Harder, Spring 2007.
Mathematics Lecture Series organizer, Wichita State University 2005-2009.
Hiring Committee, Wichita State University, 2005 and 2007.
Master's thesis, advisor and committee chair, Susana Reveles, 2005.
Predoctoral Exam, Rosa Elena Cervantes, August 2002
Undergraduate thesis, advisor, Susana Reveles, 2001-2002
Undergraduate thesis, advisor, Margarito Hernandez, 2001-2002
Reviewer, Zentralblatt, 2001-2004.
Graduate Admissions Committee, Chair, Universidad Michoacana 2000-2004.
Graduate Committee, Universidad Michoacana, 1999-2003
Predoctoral Exam of Jorge López, 1999
Promotional Visit to Hermosilla, October 1999
Committee member for Complex Analysis Exam, August 2001, February 2003
Committee member for Analysis exam, March 2000, September 2000
Committee member for Topology exam, 2000, 2001, 2002.
Organizer of Seminar in Differential Geometry, 1999-2000.
Undergraduate thesis, advisor, Ricardo Viramontes, UC Irvine, 1998.
Reviewer, American Mathematical Society, 1997-2000

References

Professor Gang Tian, MIT
Professor Rafe Mazzeo, Stanford
Professor Jean-Pierre Bourguignon, École Polytechnique and IHES
Professor Petr Zhevandrov (teaching and service), Universidad Michoacana