

## CURRICULUM VITAE

### JEFFREY STREETS

Department of Mathematics  
Princeton University  
Princeton, NJ 08540

tel. (609)-258-1306  
fax (609)-258-1367  
e-mail: jstreets@math.princeton.edu

#### Education

2002 B.A. in Mathematics	University of Chicago
2003 M.A. in Mathematics	Duke University
2007 Ph.D. in Mathematics	Duke University

#### Professional History

2007 - present Instructor, Princeton University  
2007 - present NSF Mathematical Sciences Postdoctoral Research Fellow  
2007 Clay Liffoff Fellow

#### Publications

- [1] *Ricci Yang-Mills flow on surfaces*, to appear Adv. Math.
- [2] *Asymptotic curvature decay and removal of singularities of Bach-flat metrics*, to appear Trans. AMS
- [3] *Singularities of renormalization group flows*, J. Geom. Phys. 59 (2009), no. 1 8-16.
- [4] *The gradient flow of  $\int_{\mathbb{R}^2} |M| \, d\mu$* , J. Geom. Anal. 18 (2008), no. 1, 249-271
- [5] *Regularity and expanding entropy for connection Ricci flow*, J. Geom. Phys. 58 (2008), no. 7, 900-912
- [6] *Quasi-local mass functionals and generalized inverse mean curvature flow*, Comm. Anal. Geom. 16 (2008), no. 3, 495-537
- [7] *Ricci Yang-Mills flow*, Ph.D. Thesis, Duke University, 2007.

#### Preprints

- [1] *Existence of complete conformal metrics of negative Ricci curvature on manifolds with boundary*, joint with M. Gursky, M. Warren.
- [2] *A parabolic flow of pluriclosed metrics*, joint with G. Tian
- [3] *The gradient flow of  $\int_{\mathbb{R}^2} |M| \, d\mu$  with small initial energy*
- [4] *Hermitian curvature flow*, joint with G. Tian.

#### Teaching

- Math 201 Multivariable Calculus, Princeton University, Fall 2009
- Math 201 Multivariable Calculus, Princeton University, Spring 2009

- Math 201 Multivariable Calculus, Princeton University, Fall 2008
- Ran intensive Master's Level exam preparation course, Duke University, Fall 2005-6.
- Math 25L Lab Calculus, Duke University, Fall 2004.
- Teaching assistant, Math 32L Lab Calculus, Duke University, Fall 2003.

### **Synergistic Activities**

Referee for International Mathematical Research Notices, Journal of the American Mathematical Society, Mathematische Zeitschrift, Advances in Mathematics, Journal of Mathematical Physics.

Member of AMS General Relativity MRC Program.

Organized Princeton Geometric Analysis Seminar 2008-2010.

Organized Duke Graduate Student Seminar on Finsler Geometry Spring 2006.

Organized Duke Graduate Student Seminar on Geometric Measure Theory Spring 2005.

### **Invited Lectures**

Brown University Geometry Seminar October 2009

Princeton University Geometry Seminar September 2009

Geometric Flows and Operators, Pisa, June/July 2009

Rutgers University Analysis Seminar, April 2009

Duke University Geometry Seminar, April 2009

SUNY Stony Brook Geometry Seminar, March 2009

IAS Geometry and PDE Seminar, February 2009

Conference on Geometric Analysis, Hausdorff Institute of Mathematics, November 2008

Johns Hopkins University Complex Geometry Seminar, October 2008

Conference on Geometric Flows and Mathematical Physics, BIRS, April 2008

Cambridge University Geometry Seminar, February 2008

Warwick University Geometry Seminar, February 2008

UT Austin GADGET Seminar January 2008

Yeshiva University, December 2007.

University of Wisconsin Analysis Seminar November 2007

University of Wisconsin Geometry Seminar November 2007

Princeton University Geometry Seminar Fall 2006