

WILLIAM WYLIE
CURRICULUM VITAE

Dept. of Math
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EDUCATION

B.S. **Providence College**, Mathematics & Computer Science 2001
M.A. **University of California, Santa Barbara**, Mathematics 2003
Ph.D. **University of California, Santa Barbara**, Mathematics 2006
Thesis advisor: Guofang Wei

EMPLOYMENT

Postdoc-General Member, MSRI Fall 2006
VIGRE Assistant Professor, UCLA Winter 2007-2008
Post-doctoral lecturer, UPenn 2008-Present

RESEARCH INTERESTS

Riemannian geometry, global geometric analysis, topology

PUBLICATIONS

Preprints:

(with Peter Petersen) "On the classification of gradient Ricci solitons."
Submitted to *Geometry and Topology*
(with Guofang Wei) "Comparison Geometry for the Bakry-Emery Tensor."
To appear in *J. of Diff Geom.*

Published:

(with Peter Petersen) "On gradient Ricci solitons with symmetry."
Proc. Amer. Math. Soc., 137, pp. 2085-2092, 2009.
(with Peter Petersen) "Rigidity of gradient Ricci solitons."
Pacific J. of Math., 241(2), pp. 329-345, 2009.
"Complete shrinking Ricci Solitons have finite fundamental group."
Proc. Amer. Math. Soc., 136(5) pp. 1803-1806, 2008.
(with Guofang Wei) "Comparison Geometry for smooth metric measure spaces."
Proc. of the 4th ICCM. Hangzhou, China, Vol. II pp. 191-202, 2007.
"Noncompact manifolds with nonnegative Ricci curvature."
J. Geom. Anal. 16(3), pp. 535-550, 2006.

INVITED TALKS

Research:

AMS Special session on Global Riemannian Geometry, Riverside, CA November 2009
AMS Special session on Formation of Singularities in Geometric Flows, Waco, TX October 2009
CUNY Differential Geometry workshop June 2009
Lehigh Geometry and Topology Conference June 2009
SAGE: Symposia on Analysis of Geometric Evolution workshop, Austin, TX May 2009
SUNY Buffalo, Geometry and Topology Seminar October 2008
AMS Special Session on Nonlinear Elliptic eqns. and Geom. inequalities, Courant March 2008
UC Riverside, Differential Geometry Seminar February 2008

UC San Diego, Differential Geometry Seminar	November 2007
Workshop on Curvature and Global Shape, Münster, Germany	July 2007
UC Santa Barbara, Differential Geometry Seminar	May 2007
Mathematical Sciences Research Institute	October 2006
UC Riverside, Differential Geometry Seminar	May 2006
UCLA, Differential Geometry Seminar	February 2006
AMS Special Session on Ricci Flow/Riemannian Geometry, UCSB	April 2005

INVITED TALKS

For more general audiences:

CSU Chico, Colloquium	April 2007
CSU Northridge, Graduate Seminar	March 2007
CSU Channel Islands, Mathematics and Computer Science graduate seminar	October 2005

TEACHING

UPenn

- Introduction to Ricci Flow (scheduled) Spring 2010
- Introduction to Calculus (scheduled) Fall 2009
- Riemannian Geometry (graduate) Spring 2009
- Partial Differential Equations (upper division) Spring 2009
- Introduction to Calculus Fall 2008

UCLA

- Ordinary Differential Equations (upper division) Spring 2008
- Introduction to Ricci flow (graduate) Winter 2008
- Linear Algebra Fall 2007
- Linear Algebra (upper division) Spring 2007
- Calculus for Life Sciences Winter 2007

UCSB (Teaching Associate)

- Vector Calculus Summer 2005
- Mathematics for Elementary Teaching II Winter 2005
- Calculus for the social and life sciences Fall 2004, Summer 2003

UCSB (Teaching Assistant)

- Vector Calculus Spring 2005, Winter 2004
- Differential Equations I Spring 2004, Summer 2002, Spring 2002
- Differential Equations II Fall 2003
- Calculus with applications II Winter 2003
- Calculus for the social and life sciences Fall 2002, Winter 2002, Fall 2001

UCSB (Summer Transition and Enrichment Program)

- Pre-Calculus Summer 2003

SERVICE

UPenn Geometry and Topology Reading seminar organizer	2008-2009
Graduate Admissions Committee. UPenn	2008-2009
Referee for Proceedings of AMS and Quarterly Journal of math	2007-present
Graduate Committee Student Representative, UCSB	2004-2005

HONORS AND AWARDS

- Graduate Council Departmental Mentorship Award Fellowship** 2005-2006
One of three annually awarded by the UCSB Graduate Council in a campus wide competition.
- Graduate Student Teaching Award** 2005
Awarded by the UCSB Department of Mathematics for excellence in teaching.

OTHER CONFERENCES AND WORKSHOPS ATTENDED

- Geometry Festival in memory of Detlef Gromoll, Stony Brook, NY April 2009
Workshop on Global Riemannian Geometry, Cuernavaca, Mexico May 2008
Southern California Geometric Analysis Seminar 2004 - 2007
Karsten Grove 60th Birthday Conference, College Park, MD September 2006
CMI Summer School on Ricci Flow, 3-Manifolds, and Geometry, MSRI Summer 2005
Triangulations of Point Sets: Applications, Structures, Algorithms, MSRI July 2003