

MOHAMMAD JAVAHERI

CONTACT INFORMATION	Department of Mathematics Trinity College Hartford, CT 06106	(860) 297-5395 Mohammad.Javaheri@trincoll.edu www.trincoll.edu/~mjavaher
ACADEMIC EMPLOYMENT	Trinity College , Department of Mathematics, Hartford, CT. Harold L. Dorwart Visiting Assistant Professor of Mathematics, September 2008 - present Teaching undergraduate courses and research. University of Oregon , Department of Mathematics, Eugene, OR. Paul Olum Visiting Assistant Professor of Mathematics, September 2005 - June 2008. Teaching undergraduate courses and research. Stony Brook University , Stony Brook, New York. Teaching Assistant August 2000 - June 2005.	
EDUCATION	Stony Brook University , Stony Brook, New York. Ph.D., Mathematics, 2005 <ul style="list-style-type: none">• Thesis: Conformally compact Einstein metrics with symmetry in dimension 5.• Advisor: Professor Michael Anderson.• Area of Study: Differential Geometry. Sharif University of Technology , Tehran, Iran. B.S., Mathematics, 1999.	
RESEARCH INTERESTS	Geometric Analysis : Conformally compact Einstein metrics, Ricci flow. Other : Analysis, Graph theory.	
TEACHING INTERESTS	Standard undergraduate curriculum : Calculus, Linear Algebra, Statistics, Geometry, Differential Equations, Real and Complex Analysis, Discrete Mathematics. Special topics : Non-Euclidean Geometry, PDEs.	
AWARDS & HONORS	<ul style="list-style-type: none">• 2005 Winner of the chairman's award for the best research, Stony Brook University.• 2002 Winner of the chairman's award for excellence in teaching by a first or second year graduate student, Stony Brook University.• 1999 Third prize in the nationwide 23rd annual universities contest in mathematics, organized by the Iranian Mathematical Society, Tehran, Iran.• 1998 Sharif award for the best student class. Awarded by Sharif University of Technology, Tehran, Iran.• 1996 First place in the first Sharif mathematical contest. Awarded by Sharif University of Technology, Tehran, Iran.	

- **1995-1999 Fellowship award.** Awarded by IPM (the Institute for studies in theoretical physics and mathematics), Iran.
- **1995 Silver medal** in the 36th International Mathematical Olympiad, Toronto.

PUBLICATIONS

1. *On a property of plane curves.* J. Math. Anal. Appl. 361 (2010), 332-337.
2. *Convergence of Ricci flow on R^2 to flat space,* J. Geom. Anal. (2009), no. 19, 809–816; joint with James Isenberg.
3. *Chord theorems on graphs,* Proc. Amer. Math. Soc. 137 (2009), 553-562.
4. *A generalization of Dirichlet approximation theorem for the affine actions on real line.* J. Number Theory 128 (2008), no. 5, 1146–1156.
5. *Dirichlet problem on locally finite graphs.* Discrete Appl. Math. 155 (2007), no. 18, 2496–2506.
6. *A new arrangement inequality,* J. Inequal. Pure Appl. Math. 7 (2006), no. 5, Article 162.

TEACHING
EXPERIENCE**Trinity College**

- **Calculus.** Differentiation, Integration and applications. Fall and Spring 2009.
- **Mathematics of Games and Gambling.** Combinatorics, probability, casino games, and strategy games. Spring 2009
- **Multivariable Calculus.** Fall 2008.

University of Oregon

- **Calculus for Biological Sciences.** Differential calculus with emphasis on applications to biological sciences: Fall 2007.
- **Elements of Discrete Mathematics I.** Sets, mathematical logic, induction, sequences, and functions: Fall 2006, Winter 2008.
- **Elements of Discrete Mathematics II.** Relations, theory of graphs and trees with applications, permutations and combinations: Winter 2006, Winter 2007, Spring 2008.
- **Elementary Real Analysis.** Rigorous treatment of certain topics introduced in calculus including continuity, differentiation and integration, power series, sequences and series, uniform convergence and continuity: Fall 2006, Fall 2007.
- **Introduction to Differential Equations.** Linear ODEs with applications: Fall 2005, Winter 2006.
- **Several Variable Calculus.** Introduction to calculus of functions of several variables including partial differentiation and optimization problems: Fall 2005, Winter 2007, Winter 2008.

Stony Brook University

- **Applied Complex Analysis:** Summer 2004.
- **Calculus:** Differential, integral, and several variables Calculus. Various terms 2003-2005.

- **Introduction to Linear Algebra:** Fall and Spring 2002.

TALKS &
CONFERENCES

- **AMS spring central section meeting**, Urbana, IL, April 2009. Presenting: Rigidity of conformally compact manifolds with the round sphere as the conformal boundary.
- **AMS/MAA joint meeting**, Washington DC, January 2009. Presenting: On a property of plane curves.
- **AMS/MAA joint meeting**, San Diego, CA, January 2008. Presenting: Harmonic functions via inverse mean-value theorems.
- **PIMS Differential Geometry and Analysis Summer School**. University of Washington, Seattle WA, August 2007.
- **MAA pacific northwest section meeting**. Linfield College, McMinnville OR, April 2007. Presenting: Chord Theorems on Graphs.
- **AMS/MAA joint Meeting**, New Orleans, January 2007. Presenting: A combinatorial-analysis invariant of graphs.
- **AMS Central Section Meeting**. University of Cincinnati, Ohio, October 2006. Presenting: Conformally compact Einstein metrics with symmetry in dimension 5.
- **Pacific Northwest Geometry Seminars (PNGS)**. A regional seminar supported by NSF, meeting at University of British Columbia, Stanford University, Oregon State University, University of Oregon, and Portland State University, 2005-2007.
- **Geometric Analysis Seminar**. Held weekly in the University of Oregon. 2-3 talks per year on a variety of topics such as the Yamabe problem, geometrization problem, Ricci flow, and conformally compact Einstein metrics.
- **Great Lakes Geometry Conference**. University of Wisconsin, Madison, May 2003.
- **Von Neumann Symposium**. MSRI, Berkeley, August 2003.

ACADEMIC
SERVICE

Putnam Seminar, University of Oregon.
Preparing undergraduate math majors for the Putnam examination, Fall 2007.

REFERENCES

Available upon request.