Chao Li

CONTACT INFORMATION	Stanford University Department of Mathematics 380 Serra Street Stanford, CA, 94305 USA	(650)739-9165 rchlch@stanford.edu http://web.stanford.edu/~rchlch

RESEARCH INTERESTS

Differential geometry and geometric analysis with emphasis on geometric variational problems, using partial differential equations and geometric measure theory. Research has applications to topology and mathematical general relativity.

EDUCATION

Stanford University

Ph.D. Candidate, Mathematics (expected June 2018)
- Advisors: Richard Schoen and Brian White

Peking University

B.A. in Mathematics, July 2013
- GPA 3.88 on 4.0 scale, ranking 1/160.

PUBLICATIONS

A polyhedron comparison theorem for 3-manifolds with positive scalar curvature, arXiv:1710.08067.

Positive scalar curvature with skeleton singularities, arXiv:1708.08211 (joint with Christos Mantoulidis).

Index and topology of minimal hypersurfaces in R^n, arXiv:1605.09693, to appear in Calculus of Variation and PDE.

INVITED TALKS

Instituto de Matemática Pura e Aplicada (IMPA)	July 2016
XIX School on Differential Geometry. Video available.	
University of California, Santa Barbara	March 2017
Geometry Seminar	
ETH Zürich	June 2017
Advances in Geometric Analysis	
University of Chicago	October 2017
Geometric Analysis Seminar	
Princeton University	November 2017
Differential Geometry & Geometric Analysis Seminar	
Massachusetts Institute of Technology	December 2017
Geometric Analysis Seminar	
San Diego Convention Center	January 2018
AMS Joint Mathematical Meeting, Special Session on Geometric Analysis	

Teaching Assistant

Stanford Math 51, Linear Algebra and Differential Calculus of Several Variables

- Fall 2014, Winter 2015
- Taught two 50-minute sections twice a week. Held weekly office hours. Graded exams.

Stanford Math 42, Calculus ACE (Additional Calculus for Engineers)

- Winter 2016
- ACE program is designed to enhance diversity among engineering students.
- Taught one 100-minute section twice a week. Held weekly office hours. Graded exams.

Minimal Surfaces: Old and New

- Summer 2017, lecture by Alessandro Carlotto.
- As part of Summer School on Geometric Analysis in the Fields Institute for Research in Mathematical Sciences

Course Assistant in Stanford University
Math 113: LInear Algebra and Matrix Theory
Math 20: Integral Calculus
Math 172: Lebesgue Integration and Fourier Analysis
Math 114: Applied Matrix Theory
Math 382: Algebra Ph.D. qualifying exams
Held weekly office hours. Wrote solutions. Graded homework and exams.

Math Olympiads Instruction
Did several part-time jobs as instructor on Olympiad Math.
Successfully trained high school students: one IMO gold medalist, many pursued professional mathematical careers.

S. T. Yau College Students Mathematics Contests, Team Contest   2012

Silver Medal

Chinese National Scholarship   2012

National award for outstanding students in universities and colleges

The Mathematical Contest in Modeling   2012

Meritorious Honor

Outstanding Students of Peking University   2010, 2011, 2012

Awarded for outstanding Peking University students

Chinese Mathematics Olympiad   2009

Perfect score gold medal

All Rusian Mathematics Olympiad   2007

Gold medal

Note taker for Nachdiplom lectures   Spring 2017

Topics in scalar curvature
Lectures by Richard Schoen