

Curriculum Vitae

HANGJUN XU

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Education/Employment

- 2014 - Senior Software Engineer, Oracle Corporation
(group: *performance and applications engineering*)
- 2009 – 2014 Ph.D., *Mathematics*, Duke University (advisor: Hubert L. Bray)
(thesis: *Uniformly area expanding flows in spacetimes*)
- 2013 – 2014 M.S., *Computer Science*, Duke University (advisor: Pankaj K. Agarwal)
(project: *An algorithm for comparing similarity between two trees*)
- 2005 – 2009 B.S., *Pure and Applied Mathematics*, Zhejiang University, China (advisor: Weimin Sheng)
(thesis: *Conformal deformation on complete noncompact manifolds of negative curvature*)

Scientific/Academic honors and grants

- 2012 Graduate Student Summer Research Fellowship (Duke University)
- 2007 Yongqian Tang Scholarship For Academic Excellence (Zhejiang University)

Nonscientific academic awards

- 2006 Finalist and Honorable Mention Prize, CCTV National English Speech Contest
- 2007 Finalist, 4th All-Asians Intersvarsity Debating Contest Public Speech Contest

Research interests

Differential Geometry, Geometric Analysis, Geometric Algorithms, Computer Graphics

Lecture series, lectures, and presentations (7 total)

Seminars and other specialized talks

- 2014 Apr. Inverse mean curvature vector flows in spacetimes, Duke U. Graduate/Faculty Seminar.
- 2013 Apr. Constant mean curvature surface in asymptotically flat manifolds, Duke U. Graduate/Faculty Seminar.
- 2013 Mar. Inverse Mean Curvature Vector Flows, Duke U. Graduate Student Recruiting Weekend Poster Session.
- 2011 Nov. Applications of Jacobi field estimates on topology and curvature, Duke U. Morse Theory Seminar.
- 2011 Oct. Path space and variation of energy, Duke U. Morse Theory Seminar.
- 2011 Apr. The automorphism group of a compact hyperbolic Riemann surface is finite, Duke U. Algebraic Topology Seminar.
- 2010 Jun. Harmonic map and its applications, Zhejiang U. Differential Geometry Seminar.

Organizing activities for seminars and meetings

- 2012 Spring Co-organizer, graduate/faculty seminar, mathematics department, Duke.
- 2011 Fall Organizer, graduate student semester long seminar on Morse Theory, Duke.

Teaching activities

Courses taught at Duke (as course instructor: 9 total)

- 2014 Spring Linear Algebra and Differential Equations Discussions (Math 216D)
- 2013 Summer Ordinary and Partial Differential Equations (Math 353)
- 2013 Fall Calculus of Single Variable I (Math 111L)
- 2013 Spring Calculus of Single Variable I (Math 111L)
- 2012 Fall Calculus of Single Variable II (Math 122L)
- 2012 Spring Calculus of Single Variable II (Math 112L)
- 2011 Fall Calculus of Single Variable I (Math 105L)
- 2011 Summer Linear Algebra and Differential Equations (Math 216)
- 2010 Fall Calculus of Single Variable I (Math 105L)

Teaching Assistant at Duke (2 total)

- 2010 Summer Linear Algebra and Differential Equations (Math 216)
- 2009 Fall Calculus of Single Variable I Lab (Math 111 L)

Recitations led at Zhejiang University (as undergraduate teaching assistant)

- 2008 Fall Point-Set Topology

Conference/Summer School Attended

- 2012 Jul. Summer Graduate Workshop, Mathematical General Relativity, MSRI, CA
- Apr. 27th Annual Geometry Festival, Duke University, Durham, NC
- 2011 Sep. AMS Sectional Meeting, Wake Forest U., NC
- Sep. AMS Sectional Meeting, Cornell U., NY
- Jul. Summer School on Moduli Space of Riemann Surfaces, IAS/Park City, Utah
- May 41st Barrett Memorial Lectures in Mathematical Relativity, U. Tennessee, Knoxville
- Apr. JDG 2011: Eighth Conference on Geometry and Topology, Harvard U., Cambridge
- Apr. Triangle Lectures in Combinatorics, NC State, Raleigh
- 2010 Jun. Number Theory and Representation Theory, a conference in honor of the 60th birthday of Benedict Gross, Harvard U., Cambridge