

Cumulative Bio-bibliography
University of California, Santa Cruz, CA 95064

Jie Qing
Professor
Department of Mathematics
qing@ucsc.edu
March 5, 2019

EMPLOYMENT HISTORY

- 2014 – 2017: The Chair of Math Dept. at UC Santa Cruz
- 2005 – present: Professor at UC Santa Cruz
- 2001 – 2005: Associate Professor at UC Santa Cruz
- 1997 – 2001: Assistant Professor at UC Santa Cruz
- 1994 – 1997: Ritt Assistant Professor at Columbia University, New York
- 1993 – 1994: Visiting member at the Institute for Advanced Study, Princeton

PRESTIGIOUS VISITING PROFESSORSHIPS/MEMBERSHIPS

- June. 2013 - July 2013: Visiting researcher at CRM, Barcelona, Spain.
- Oct. 2012 – Nov. 2012: Visiting researcher at IHP, Paris, France.
- Jan. 2012 – Feb. 2012: Visiting researcher at IMPA, Rio de Janeiro, Brazil.
- Aug. 2011 – Aug. 2011: Visiting researcher at Max-Planck Institute for Gravitational Physics, Potsdam, Germany.
- Sept. 2008 – Mar. 2009: Visiting member at the Institute for Advanced Study, Princeton, New Jersey
- Oct. 2008 – Nov. 2008: Visiting Researcher at the Institut Mittag-Leffler, Djorsholm, Sweden
- Sept. 2005 – Oct 2005: Visiting Researcher at Issac Newton Institute for Mathematical Sciences, Cambridge, England
- Aug. 2005 – Dec. 2005: Research Professor at Mathematical Science Research Institute, Berkeley, California

Sept. 2003 – June 2004: Visiting Associate Professor at Princeton University,
Princeton, New Jersey

Jan. 2001 – May 2001: Research Professor at Mathematical Science Research
Institute, Berkeley, California

Sept. 1993 – Aug. 1994: Visiting member at the Institute for Advanced Study,
Princeton, New Jersey

EDUCATION

June 1993: Ph.D. in Mathematics, UC Los Angeles, California

July 1986: M.S. in Mathematics, Peking University, Beijing

July 1983: B.S. in Mathematics, Peking University, Beijing

PROFESSIONAL COMPETENCE AND ACTIVITY

Awards

1999 – 2000: Nomination for Excellence in Teaching Award at UC Santa
Cruz

Fellowships:

1999 – 2001: Sloan Research Fellowships

1994 – 1997: National Science Foundation Postdoctoral Fellowships

1992 – 1993: Chancellor's Dissertation Fellowships at UC Los Angeles

Grants:

2016 – 2019: National Science Foundation Research Grant, 248,985

2013 – 2016: National Science Foundation Research Grant, 200,184

2010 – 2013: National Science Foundation Research Grant, 161, 696

2007 – 2010: National Science Foundation Research Grant, 150,429

2004 – 2007: National Science Foundation Research Grant, 102,000

2001 – 2004: National Science Foundation Research Grant, 54,000

1998 – 2001: National Science Foundation Research Grant, 70,230

REFEREED ARTICLES IN PRESS

PUBLICATIONS

[61] Compactness of conformally compact Einstein 4-manifolds II (joint with Alice Chang and Yuxin Ge), preprint [arXiv:1811.02112](https://arxiv.org/abs/1811.02112)

[60] On n-superharmonic functions and some geometric applications (joint with Shiguang Ma), preprint [arXiv:1810.10561](https://arxiv.org/abs/1810.10561)

Refereed Articles

[59] Conformal Ricci flow on asymptotically hyperbolic manifolds (joint with Peng Lu and Yu Zheng), *Sci. China Math.* **62** (2019), no. 1, 157–170.
[arXiv:1801.03869](https://arxiv.org/abs/1801.03869)

[58] Hypersurfaces with nonnegative Ricci curvature in hyperbolic space (joint with Vincent Bonini and Shiguang Ma), *Calc. Var. Partial Differential Equations* **58** (2019), no. 1, Art. 36, 14 pp [arXiv:1709.00091](https://arxiv.org/abs/1709.00091)

[57] On nonnegatively curved hypersurfaces in hyperbolic space, (joint with Vincent Bonini and Shiguang Ma), *Math. Ann.* **372** (2018), no. 3-4, 1103–1120.
[arXiv:1603.03862](https://arxiv.org/abs/1603.03862)

[56] Weakly horospherically convex hypersurfaces in hyperbolic space (joint with Vincent Bonini and Jingyong Zhu), *Ann. Global Anal. Geom.* **52** (2017), no. 2, 201–212. [arXiv:1611.06421](https://arxiv.org/abs/1611.06421)

[55] Gap phenomena and curvature estimates for conformally compact Einstein manifolds (joint with Gang Li and Yuguang Shi), *Trans. Amer. Math. Soc.* **369** (2017), no. 6, 4385–4413.

[54] Scalar invariants for surfaces in conformal 3-sphere via Minkowski spacetime (joint with Changping Wang and Jingyang Zhong), *Pacific J. Math.* **286** (2017), no. 1, 153–190.

[53] On scalar curvature rigidity of vacuum static spaces (joint with Wei Yuan), *Math. Ann.* **365** (2016), no. 3-4, 1257 - 1277.

[52] Scalar invariants of hypersurfaces in conformal manifolds (in Chinese) (joint with Jingyang Zhong), *Scientia Sinica Mathematica*, **46** (2016), 663 – 672.

[50] Hypersurfaces in hyperbolic space with support function (joint with Vincent Bonini and Jose Espinar), *Adv. Math.* **280** (2015), 506 - 548.

- [49] A note on conformal Ricci flow (joint with Peng Lu and Yu Zheng), [*Pacific J. Math.* 268 \(2014\), no. 2](#), 413 - 434.
- [48] A note on static spaces and related problems (joint with Wei Yuan), [*J. Geom. Phys.* 74 \(2013\)](#), 18 - 27.
- [47] Fractional conformal Laplacians and fractional Yamabe problems (joint with Maria Gonzalez), [*Anal. PDE* 6 \(2013\), no. 7](#), 1535 -1576.
- [44] Normalized Ricci flows and conformally compact Einstein metrics (joint with Yuguang Shi and Jie Wu). [*Calc. Var. Partial Differential Equations* 46 \(2013\), no. 1-2](#), 183–211.
- [43] Globally weak solutions to the flow of compressible liquid crystals system (joint with Xiangao Liu). [*Discrete Contin. Dyn. Syst.* 33 \(2013\), no. 2](#), 757–788.
- [42] Asymptotic behavior of solutions to liquid crystal systems in \mathbb{R}^3 (joint with Mimi Dai and Maria Schonbek). [*Comm. Partial Differential Equations* 37 \(2012\), no. 12](#), 2138–2164.
- [41] Regularity and rigidity of asymptotically hyperbolic manifolds (joint with Xue Hu and Yuguang Shi). [*Adv. Math.* 230 \(2012\), no. 4-6](#), 2332–2363.
- [40] Regularity of solutions to the liquid crystals systems in \mathbb{R}^2 and \mathbb{R}^3 (joint with Mimi Dai and Maria Schonbek). [*Nonlinearity* 25 \(2012\), no. 2](#), 513–532.
- [39] Norm inflation for incompressible magneto-hydrodynamic system in (joint with Mimi Dai and Maria Schonbek). [*Adv. Differential Equations* 16 \(2011\), no. 7-8](#), 725–746.
- [38] Hypersurfaces of Hyperbolic-Poincare manifolds and conformally invariant PDEs (joint with Vincent Bonini and Jose Espinar), [*Proc. Amer. Math. Soc.* 138 \(2010\), no. 11](#), 4109–4117.
- [37] Spectral characterization of Poincare-Einstein manifolds with infinity of positive Yamabe type (joint with Colin Guillarmou), [*Int. Math. Res. Not.*](#), Vol 2010, no. 9, 1720-1740
- [36] A positive mass theorem on asymptotically hyperbolic manifolds with corners along a hypersurface (joint with Vincent Bonini), [*Ann. Henri Poincaré* 9 \(2008\), no. 2](#), 347 – 372
- [33] On positive solutions to semilinear conformally invariant equations on locally conformally flat manifolds (joint David Raske), [*Int. Math. Res. Not.*](#), Vol 2006, Art. ID 94172, 20
- [32] Compactness for conformal metrics with constant Q-curvature on locally conformally flat manifolds (joint David Raske), [*Calc. Var. Partial Differential Equations* 26 \(2006\), no. 3](#), 343 – 356

- [31] On a conformal gap and finiteness theorem for a class of four-manifolds (joint with Alice Chang and Paul Yang), *Geom. Funct. Anal.* **17** (2007), no. 2, 404–434.
- [30] On the uniqueness of the foliation of spheres of constant mean curvature in asymptotically flat 3-manifolds (joint with Gang Tian), *J. Amer. Math. Soc.* **20** (2007), no. 4, 1091–1110
- [27] Ricci rigidity for weakly asymptotically hyperbolic manifolds, (joint with Vincent Bonini, Pengzhe Miao), *Comm. Anal. Geom.* **14** (2006), no. 3, 603 – 612
- [26] On the uniqueness of AdS space-time in higher dimensions, *Ann. Henri Poincaré* **5** (2004), no. 2, 245- 260
- [24] On the topology of conformally compact Einstein 4-manifolds (joint with Alice Chang and Paul Yang), *Contemp. Math.*, **350**, (2004), 49 – 61
- [22] On the rigidity for conformally compact Einstein manifolds, *Int. Math. Res. Not.* **2003**, no. 21, 1141–1153.
- [21] On finiteness of Kleinian groups in general dimension (joint with Alice Chang and Paul Yang), *J. Reine Angew. Math.* **571** (2004), 1--17.
- [20] A remark on the finite time singularity of the heat flow for harmonic maps. *Calc. Var. Partial Differential Equations* **17** (2003), no. 4, 393—403
- [19] Compactification of a class of conformally flat 4-manifold (joint with Alice Chang and Paul Yang), *Invent. Math.* **142** (2000), no. 1, 65—93
- [18] Zeros of wave functions in Ginzburg-Landau model for small ϵ . *Commun. Contemp. Math.* **3** (2001), no. 2, 187—199
- [16] On the Chern-Gauss-Bonnet integral for conformal metrics on \mathbb{R}^4 (Alice Chang and Paul Yang), *Duke Math. J.* **103** (2000), no. 3, 523—544
- [15] Ginzburg-Landau vortices and Mandelstam diagrams. *Pacific J. Math.* **194** (2000), no. 1, 189—197
- [13] Bubbling of the heat flows for harmonic maps from surfaces (joint with Gang Tian), *Comm. Pure Appl. Math.* **50** (1997), no. 4, 295—310
- [12] The zeta functional determinants on manifolds with boundary. II. Extremal metrics and compactness of isospectral set (joint with Alice Chang and Paul Yang), *J. Funct. Anal.* **147** (1997), no. 2, 363—399
- [11] The zeta functional determinants on manifolds with boundary. I. The formula (joint with Alice Chang and Paul Yang), *J. Funct. Anal.* **147** (1997), no. 2, 327—362

- [10] Renormalized energy for Ginzburg-Landau vortices on closed surfaces. *Math. Z.* 225 (1997), no. 1, 1—34
- [9] Zeta functional determinants on manifolds with boundary. *Math. Res. Lett.* 3 (1996), no. 1, 1—17
- [7] On singularities of the heat flow for harmonic maps from surfaces into spheres. *Comm. Anal. Geom.* 3 (1995), no. 1-2, 297—315
- [6] Boundary regularity of weakly harmonic maps from surfaces. *J. Funct. Anal.* 114 (1993), no. 2, 458—466
- [5] Multiple solutions of the Dirichlet problem for harmonic maps from discs into 2-spheres. *Manuscripta Math.* 77 (1992), no. 4, 435—446
- [4] The Dirichlet problem for harmonic maps from the disc into Kähler manifolds. *J. London Math. Soc. (2)* 47 (1993), no. 1, 182—192
- [3] Remark on the Dirichlet problem for harmonic maps from the disc into the S^2 -sphere. *Proc. Roy. Soc. Edinburgh Sect. A* 122 (1992), no. 1-2, 63—67
- [1] A priori estimates for positive solutions of semi-linear elliptic systems. *J. Partial Differential Equations Ser. A* 1 (1988), no. 2, 61--70

Non-Refereed Works

Conference proceedings

- [45] Asymptotically hyperbolic manifolds and conformal geometry, Chapter in "Recent development in geometry and analysis", edited by Y. Dong, J. Fu, G. Lu, W. Sheng, and X. Zhu, International Press, Beijing, 2013, page 329 – 345.
- [34] Some Progress in Conformal Geometry (Joint With Alice Chang, Paul Yang), *SIGMA Symmetry Integrability Geom. Methods Appl.* 3 (2007), 122- 139
- [28] Renormalized volumes for conformally compact Einstein manifolds. (Russian) *Sovrem. Mat. Fundam. Napravl.* 17 (2006), 129--142; translation in *J. Math. Sci. (N. Y.)* 149 (2008), no. 6, 1755--1769
- [23] Partial differential equations in conformal geometry. (Russian) *Sovrem. Mat. Fundam. Napravl.* 2 (2003), 95--102 (electronic); translation in *J. Math. Sci. (N. Y.)* 124 (2004), no. 5, 5290—5297
- [17] A fourth order PDE and its application in conformal geometry. International Conference on Differential and Functional Differential Equations (Moscow, 1999). *Funct. Differ. Equ.* 8 (2001), no. 3-4, 383—393

[14] Harmonic maps from surfaces. *Nonlinear functional analysis and applications to differential equations (Trieste, 1997)*, 203--236, *World Sci. Publ., River Edge, NJ*, 1998

Lecture Notes

[51] Lectures on a rudimentary introduction to Quantum Field Theory based on Folland's book: *Quantum Field Theory: A Tourist Guide for Mathematicians*, 2015.

[46] Conformal geometry and PDE. Lecture notes for special lectures at BICMR, Beijing 2012.

[35] Cheeger finite diffeomorphism Theorem in Riemannian Geometry, Lecture Note for mini-course in the summer school at USTC, Hefei, China, 2007

[29] Mathematical aspects of general relativity, lecture Note for the mini-course at the summer school on differential equations and differential geometry in Nanjing University, Nanjing, China, 2004

[25] Conformal finiteness, Lecture Note for the mini-course in the workshop on the development in nonlinear PDE and geometry at ICTP, Italy, 2003

[8] On zeta functional determinant (notes taken by Jie Qing), [CRM Proc. Lecture Notes, 12](#), *Partial differential equations and their applications (Toronto, ON, 1995)*, 25--50, *Amer. Math. Soc., Providence, RI*, 1997

Unpublished Preprints

[2] Regularity of Mimima of Certain Variational Integrals (in Chinese) 1988

UNIVERSITY SERVICE

Department Service

2014 - 2017: The Chair of Math Dept.

2015 - 2016: member of faculty recruitment committee

2013 - 2014: chair of faculty recruitment committee

2012 - 2017: member of graduate admission committee

2009 - 2018: member of committee on analysis prelim exams.

2009 - 2012: vice-chair for graduate affairs

2009 - 2012: chair of graduate admission committee

2009 - 2018: member of committee on topology / geometry prelim exams.

- 2008 – 2009: member of faculty recruitment committee
- 2008 – 2009: member of committee on analysis prelim exams
- 2006 – 2007: member of graduate admission committee
- 2005 – 2007: member for committee on topology / geometry prelim exams.

Academic Senate Service

- 2017 – 2018: member of committee on planning and budget
- 2016 – 2018: member of committee on courses of instruction.
- 2007 – 2008: member of committee on teaching.

Crown College Service

- 2017 – 2018: Associate provost for Crown College
- 2015 – 2016: elected member of Executive Committee of Crown College.
- 1999 – 2001: member of academic standing committee of Crown College

OUTSIDE PROFESSIONAL ACTIVITIES

Invited Presentations (July 2016 – present)

On hypersurfaces in hyperbolic space, invited seminar talk at Beijing Institute of Technology, Beijing, August 2018.

On hypersurfaces in hyperbolic space, invited seminar talk at Shanghai Jiao Tong University, Shanghai, August 2018

On hypersurfaces in hyperbolic spaces, invited seminar talk at Fudan University, Shanghai, August 2018.

On hypersurfaces in hyperbolic space, invited seminar talk at University of Science and Technology of China, Hefei, August 2018.

On hypersurfaces in hyperbolic space, invited seminar talk at Southeast University, Nanjing, August 2018.

Compactness and uniqueness of asymptotically hyperbolic Einstein manifolds, invited speaker at the 2018 Australian-China Joint Conference on Geometric Analysis and Differential Geometry, Australia, 13-17 August 2018.

Mathematical Relativity, mini-course in the summer school for graduate students at Henan Normal University, Xinxiang, July 2018.

On hypersurfaces in hyperbolic space, invited talk in the International Conference on Geometric and Nonlinear Partial Differential Equations in Suzhou, Suzhou, July 2018.

On hypersurfaces in hyperbolic space, invited talk in workshop on Asymptotically hyperbolic manifolds at Banff, Canada, May 2018.

On hypersurfaces in hyperbolic space, invited speaker at Nonlinear Day in New York, The graduate center, CUNY, New York, April 2018.

On Strong rigidity for Asymptotically Hyperbolic Einstein Manifolds, Invited talk at the International Conference on Geometric and Nonlinear PDE, Murramarang, Australia, Feb 2018.

On hypersurfaces in hyperbolic space, Invited talk in the International Workshop and Conference in Geometry, Sydney, Australia, Jan 2018

On hypersurfaces in hyperbolic space, Invited talk at Taipei Conference on Geometric Invariants and PDEs, Taipei, Jan 2018

On convex hypersurfaces in hyperbolic space, Seminar talk at Johns Hopkins, Baltimore, Sept. 2017

On convex hypersurfaces in hyperbolic space, Seminar talk at U. of Minnesota, Twin Cities, Sept. 2017

Conformal Geometry and PDEs, mini-course in the summer school at Nanjing Univ., Nanjing, July 2017

On asymptotically hyperbolic Einstein manifolds, mini-course in Tian Yuan advanced seminar, Peking University, Beijing, April 2017

Asymptotically hyperbolic Einstein manifolds with conformal infinity of large Yamabe invariants, Invited talk at the Workshop on geometry and analysis on manifolds at UC Santa Barbara, April 2017.

Embeddedness and convexity for hypersurfaces in hyperbolic space, seminar talk at Princeton University, March 2017.

On strong rigidity for asymptotically hyperbolic Einstein manifolds, Seminar talk at UC San Diego, December 2016.

Invited Presentations (July 2013 – June 2016)

Strong rigidity theorems for asymptotically hyperbolic manifolds, invited talk at the international conference on perspectives in geometric analysis at Xi'an Jiao-Tong University, Xi'an, China, July 5 – 7, 2016.

Convexity and embeddedness for hypersurfaces in hyperbolic spaces, invited talk at the international workshop on geometric analysis at University of Sichuan, Chengdu, China, June 20 – 24, 2016.

Convexity and embeddedness for hypersurfaces in hyperbolic spaces, invited talk at Shanks workshop on Geometric Analysis, Vanderbilt University, Nashville, March 11-12, 2016.

Convexity and embeddedness for hypersurfaces in hyperbolic spaces, invited talk at the Third Taiwan International Conference on Geometry, Taipei, Jan 18 – 22, 2016.

Analysis on asymptotically hyperbolic manifolds, mini-course in the Third Taiwan International Conference on Geometry and Min-courses, Taipei, Jan 13 – 15, 2016.

Conformally compact Einstein manifolds with conformal infinities of large Yamabe constants, invited talk at the PDE seminar in Fudan University, Shanghai, China, August. 20, 2016.

Conformally compact Einstein manifolds with conformal infinity of large Yamabe constant, invited talk at the workshop on partial Differential equations at Oberwolfach, Germany, August 2 – 8, 2015.

Scalar invariants for surfaces in conformal 3-sphere, invited talk at the 2015 ECNU workshop on geometry and analysis on manifolds, Shanghai, July 22 – 24, 2015.

Dupin hypersurfaces with constant Mobius curvatures, invited talk at the workshop on recent advances in conformal geometry at the graduate center of City University of New York, New York, May 12, 2015.

Dupin hypersurfaces with constant Mobius curvatures, invited talk at the 20th Midwest Geometry Conference at the University of Oklahoma, Normal, Oklahoma, January 17-18, 2015.

Scalar invariants for surfaces in conformal 3-sphere, invited talk at the special session on geometry of submanifolds of AMS Fall western sectional meeting at San Francisco, California, Oct. 26, 2014.

Scalar invariants for surfaces in conformal 3-sphere, invited talk at the international conference on geometric analysis at Nanjing University, Nanjing, China, July 5 – 7, 2014.

Conformal geometry of surfaces in 3-sphere via Minkowski spacetime, invited talk at the special session on Analysis and Topology in Special Geometries, II of Western Spring Sectional Meeting, Albuquerque, New Mexico, April 4 – 5, 2014.

Conformal geometry of surfaces in 3-sphere via Minkowski spacetime, invited talk at the 21st Southern California Geometric Analysis Seminar, at the University of California, Irvine, California, February 22-23, 2014.

Invited Presentations (July 2010 – June 2013)

Conformal geometry of surfaces in 3-sphere, invited talk at the international conference on geometric analysis and conformal geometry, CRM, Barcelona, Spain, July 2013

Hypersurfaces in hyperbolic space with support functions, invited talk, AMS regional meeting in Boulder, Colorado, April 2013

Horospherically convex hypersurfaces in hyperbolic space, invited talk at IHP, Paris, Nov 2012.

Horospherically convex hypersurfaces in hyperbolic space, invited seminar talk at University of Oregon, Eugene, Oct. 2012.

Horospherically convex hypersurfaces in hyperbolic space, invited talk at the joint PDE seminar of Rutgers and Princeton, Sept. 2012.

Horospherically convex hypersurfaces in hyperbolic space, invited talk at Banff, Canada, Aug. 2012.

Horospherically convex hypersurfaces in hyperbolic space, invited talk at SHJU, Shanghai, China, July 2012.

Conformal geometry and PDE, special lectures at BICMR, Beijing, June 2012.

Horospherically convex hypersurfaces in hyperbolic space, invited talk at the geometric analysis seminar at Stanford University, April 2012

Horospherically convex hypersurfaces in hyperbolic space, invited talk at Workshop on Differential Geometry, Maceio, Brazil, Feb. 2012.

Normalized Ricci flow and Conformally compact Einstein metrics, invited talk at IMPA, Brazil, Feb. 2012

Horospherically convex hypersurfaces in hyperbolic space, invited talk at Albert Einstein Institute in Max-Planck Institute of Gravitational Physics, Potsdam, Germany, Aug. 2011

Normalized Ricci flow and Conformally compact Einstein metrics, invited talk at Workshop on Partial Differential Equations, Oberwolfach, Germany, Aug. 2011.

Hypersurfaces in hyperbolic space and conformal metrics on domains in sphere, invited seminar talk at Nanjing University, Nanjing, July 2011

Hypersurfaces in hyperbolic space and conformal metrics on domains in sphere, invited talk at the International workshop on geometric PDE, Xiamen, June 2011

Hypersurfaces in hyperbolic space and conformal metrics on domains in sphere, invited talk at the Workshop on Geometric Analysis at Hangzhou, June 2011.

Fractional conformal Laplacians and fractional Yamabe problems, invited talk at the special session on geometric PDE at the spring western section meeting of AMS, Las Vegas, May 2011.

Spectral characterization of Poincare-Einstein manifolds with infinity of positive Yamabe type, invited seminar talk at Princeton University, Oct. 2010

Spectral characterization of Poincare-Einstein manifolds with infinity of positive Yamabe type, invited talk at the workshop on geometric and complex analysis, Nanjing, July 2010.

Spectral characterization of Poincare-Einstein manifolds with infinity of positive Yamabe type, invited talk at the international workshop on geometric analysis, Lanzhou, July 2010.

Spectral characterization of Poincare-Einstein manifolds with infinity of positive Yamabe type, invited talk, AMS-SMM International Meeting, Berkeley, June 2010

Scattering operators and conformal geometry, invited talk, Spring Western Section Meeting, Albuquerque, April 2010

Professional Society Memberships

American Society of Mathematics

Refereeing

Editor for Pacific Journal of Mathematics, 2002 – present

Referee for

Advances in Mathematics
Calculus of Variation and Partial Differential Equations
Pacific Journal of Mathematics
Journal of AMS
Duke Journal of Mathematics
International Journal of Mathematics
Communications in contemporary Mathematics
Communications in Mathematical Physics
SIAM Journal on Mathematical Analysis
American Journal of Mathematics
Proceeding of AMS

Scientific Advisor for International Conferences

Co-organizer of a special session on differential geometry in AMS Sectional Meeting, Honolulu, March 2019

Co-organizer of a special session on asymptotically hyperbolic Einstein manifolds and conformal geometry in AMS International Meeting, Shanghai, June 2018

Co-organizer of a special session on differential geometry in AMS International Meeting, Shanghai, June 2018

Co-organizer of a special session on geometric analysis in AMS Sectional Meeting at Riverside, Nov 2017.

Organizer of the summer program on conformal geometry and partial differential equations at BICMR, Peking University, Beijing, June 22 – July 7, 2015.

Co-organizer of the special session on geometric analysis in the second Pacific Rim Mathematics Association Congress, Shanghai, June 2013.

Organizer of the summer program on mathematical relativity 2011 at BICMR, Peking University, Beijing, June – July, 2011.

Organizer of the international conference on differential geometry and differential equations, Yangzhou, China, April 2011.

Member of organizing committee for the International conference on geometric nonlinear PDEs, Peking University, Beijing, China, June 2010

Member of organizing committee for the workshop on differential equations and differential geometry, Shaoxing University, Shaoxing, China, July 2010

Member of organizing committee for the conference on PDEs in conformal and Kaehler geometry, USTC, Hefei, China, July 2008

Member of program committee for 4th international conference on differential and functional equations, Moscow, Russia, Aug 2005

Organizer of the special session on partial differential equations in conformal geometry in National Meeting of AMS at Phoenix, Jan. 2004

STUDENTS AND RESEARCH ASSOCIATES

Undergraduate Students (Senior Thesis)

Edwards Tian, 2018
Hadrian Quan, 2015
Richard Finn 2014
Jack Austin Arbunich, 2010
Richard Shafer, 2006
Brian Palmer, 2006
Jacqueline Espina, 2000

Graduate Students

Tzu-Mo Kuo, Ph. D. 1st year
Yufei Shan, Ph. D. 2nd year
Jiaqi Chen, Ph. D. 4st year
Yucheng Lu, Ph. D. 2018
Robert Hingtgen, Ph. D. 2018
Jingyang Zhong, Ph. D. 2016
Wei Yuan, Ph. D. 2015
David de Conde, Ph. D. 2012
Mimi Dai, Ph. D. 2012
Jordan Fassler, MA. 2008
Jon Hofman, MA. 2007
Vincent Bonini, Ph. D. 2006
David Raske, Ph. D. 2005
Annette Rinder, MA. 1999

Ph.D. Oral Exam Committee

Steven Finn, Mathematics, 2018
Jiaqi Chen, Mathematics, 2018
Patrick Allman, Mathematics, 2017
Salvador Guerrero, Mathematics, 2017
Sean Gasiore, Mathematics, 2017
Joseph Schindler, Physics, 2016
Robert Hingtgen, Mathematics, 2016
Zheng Zhou, Mathematics, 2015
Yucheng Lu, Mathematics, 2014
Connor Jackman, Mathematics, 2014
Liuyi Zhang, Mathematics, 2013
Jingyang Zhong, Mathematics 2013
Manatosh Bose, Physics, 2013
Wei Yuan, Mathematics 2012
David de Conde, Mathematics 2011
Victor Dods, Mathematics, 2011
Marta Batoreo, Mathematics, 2010
Doris Hein, Mathematics, 2010
Mimi Dai, Mathematics, 2008
Doug Gray, Computer Sciences, 2008

Alex Castro, Mathematics, 2007
Clayton Bjorland, Mathematics, 2006
Yuyu Wang, Economics, 2005
Oren Rosen, Mathematics, 2004
Jon Hofman, Mathematics, 2003
Vincent Bonini, Mathematics, 2003
Zheng Sun, Economics, 2003
David Raske, Mathematics, 2002
Francisco Molina, Mathematics, 2000

Ph.D. Dissertation Defense Committee

Robert Hingtgen, Mathematics, 2018
Yucheng Lu, Mathematics, 2018
Connor Jackman, Mathematics, 2018
Jingyang Zhong, Mathematics, 2015
Wei Yuan, Mathematics, 2014
Corey Shanbrom, Mathematics, 2013
Marta Batoreo, Mathematics, 2013
David de Conde, Mathematics, 2012
Mimi Dai, Mathematics, 2012
Doris Hein, Mathematics, 2011
Alex Castro, Mathematics, 2010
Clayton Bjorland, Mathematics, 2009
Ruben Angel Agapito Ruiz, Mathematics, 2007
Vincent Bonini, Mathematics, 2006
David Raske, Mathematics, 2005
Ion Georgiou, Mathematics, 2000