

Curriculum Vitae

Panagiotis Gianniotis

Date and place of birth: July 27 1984, Athens, Greece

Citizenship: Greek

Contact Information

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Research Interests

Differential geometry, Geometric Analysis, Partial Differential Equations. I am particularly interested in geometric evolution equations, such as Ricci flow, mean curvature flow and harmonic map flow, and their applications to Geometry.

Qualifications

2002–2006 BSc Mathematics, University of Athens, Greece.
2006–2008 MSc Mathematics, University of Athens, Greece.
Thesis supervisor: Professor Antonios Melas.
Thesis: The sphere theorem in Riemannian Geometry.
2008–2013 PhD Mathematics, Stony Brook University.
Dissertation Adviser: Professor Michael Anderson.
Dissertation topic: The Ricci flow on manifolds with boundary.

Employment History

September 2008 – August 2013 Teaching Assistant, Stony Brook University.
September 2013 – August 2014 Research Associate, University of Warwick.
September 2014 – August 2016 Research Associate, University College London.
September 2016 – August 2017 Fields-Ontario postdoc, University of Waterloo.
July 2017 – December 2017 Fields Institute, ‘Thematic program in Geometric Analysis’.
September 2017 – August 2018 Fields-Ontario postdoc, Fields Institute–University of Toronto.
since February 2019 Assistant Professor, National and Kapodistrian University of Athens.

Publications

1. *The Ricci flow on manifolds with boundary*, Journal of Differential Geometry, Vol. 104, No. 2 (2016), pp. 291-324.
2. *Boundary estimates for the Ricci flow*, Calculus of Variations and PDEs, Volume 55, Issue 1, February 2016.
3. *The size of the singular set of a Type I Ricci flow*, J. Geom. Anal. 27 (2017), no. 4, 3099–3119
4. *Ricci flow from spaces with isolated conical singularities (joint with Felix Schulze)*, Geom. Topol. Volume 22, Number 7 (2018), 3925-3977.
5. *Regularity theory for Type I Ricci flows*, Calc. Var. (2019) 58: 200.
6. *Diameter and curvature control under mean curvature flow (joint with Robert Haslhofer)*, Amer. J. Math (to appear)
7. *A gradient flow of isometric G_2 structures, (joint with Shubham Dwivedi and Spiro Karigiannis)*, J. Geom. Anal. (to appear)

Honours and Awards

1. Greek State Scholarship for academic excellence, 2006, Greek National Scholarship Institute (I.K.Y)
2. Distinction in the PhD Oral Exam, Stony Brook 2009
3. Greek Diaspora Fellowship Program Cycle 3, Host (Fellow: Dr. Theodora Bourni)

Teaching and mentoring experience

1. Stony Brook University:
 - MAP 103: Proficiency Algebra, lecturer, Spring 2010.
 - MAT 211: Linear Algebra and applications, course coordinator and lecturer, Summer 2011 and 2012.
 - MAT 122: Overview of Calculus, recitation.
 - MAT 125 & 126: Calculus A&B, recitations.
 - MAT 131 & 132: Calculus I&II (fast paced Calculus courses), recitations.
 - MAT 307: Multivariable Calculus and Linear Algebra, recitation.
2. University of Warwick:
 - MA4C0 Differential Geometry, Term 1 2013.
 - Mentored Patrica Marcal, a fourth year undergraduate student, on a summer project entitled “Ricci curvature comparison”.
3. University College London:
 - MATH1102: Problem class in Analysis 2, Spring term 2015.
 - Part of MATH3109: Multivariable Analysis, Fall term 2015.
4. University of Waterloo:
 - MATH136: Linear Algebra, Winter 2017.
5. Fields Institute:
 - Teaching Assistant for the course ‘Gradient flows for the Harmonic map energy’, given by Peter Topping during the Summer School on Geometric Analysis, July 2017.
6. University of Toronto Scarborough:
 - MATA36: Calculus II for Physical Sciences, Winter 2018.
7. National and Kapodistrian University of Athens
 - Analytic Geometry, Spring 2019
 - Ricci flow, Winter 2019

Invited talks

1. Geometry and Topology seminar, Stony Brook University, November 2012.
2. 11th Annual Graduate Student Topology and Geometry Conference, University of Notre Dame, 2013.
3. Lehigh University Geometry and Topology Conference, 2013.
4. Junior Warwick-Imperial-Cambridge Geometric Analysis seminar, University of Warwick, December 2013.
5. Geometry and Analysis seminar, Imperial College London, January 2014.
6. Topics in Geometric Analysis seminar, Albert Einstein Institute, February 2014.
7. Geometric flows program seminar, Simons Center for Geometry and Physics, November 2014.
8. Differential Geometry seminar, University of Münster, December 2014.
9. Geometric flows: recent developments and applications, Banff, April 2015.
10. 12th Panhellenic Congress in Geometry, Thessaloniki, Greece, May 2015.
11. Geometry and Analysis seminar, Queen Mary University, October 2015.
12. Geometric Flows, their applications, and related topics, conference at Queen Mary University, January 2016.
13. “Differential Geometry and Analysis seminar”, Otto-von-Guericke University Magdeburg, January 2016.
14. “Contemporary Algebra and Geometry in Greece”, Crete, Greece, May 2016.
15. Oberwolfach workshop “Nonlinear evolution problems”, June 2016.
16. Geometric Analysis Colloquium, Fields Institute, September 2016.
17. Geometry and Topology seminar, University of Waterloo, October 2016.
18. Geometry and Topology seminar, Stony Brook University, November 2016.
19. CMS meeting Winter 2016, special session: “Geometric PDEs, the Einstein equation and mathematical relativity”, Niagara falls, December 2016.
20. Geometry and Topology seminar, McMaster University, Canada, March 2017.
21. PDE and Differential Geometry seminar, University of Connecticut, March 2017.
22. Geometry and Topology seminar, CIRGET, Université du Québec à Montréal, Montréal, May 2017.
23. ‘Recent Progress in Geometric Analysis’, AMS sectional meeting, SUNY Buffalo, September 2017.
24. Program on ‘Metric measure spaces and Ricci curvature’, Max-Planck Institute for Mathematics, Bonn, September 2017.

25. Differential Geometry Seminar, UC-Berkeley, October 2017
26. CMC meeting Winter 2017, special session: “Geometric Analysis”, University of Waterloo, December 2017.
27. Geometric Analysis Seminar, University of Chicago, February 2018.
28. Ricci flow, mean curvature flow and related singular flows, University of Hamburg, September 2018.
29. Analysis Seminar, University of Warwick, December 2018.
30. Differential Geometry Seminar, Nicosia, September 2019.
31. Differential Geometry Seminar, Münster, November 2019

Academic visits

1. Simons Center for Geometry and Physics, November 1 - November 16 2014: Geometric flows program.
2. Fields Institute, July 1 - December 31: Thematic program on Geometric Analysis

Other academic activities

1. Graduate Student Representative, Stony Brook 2011-2013.
2. Geometry reading Seminar, Winter 2019 (co-organized with Panagiotis Christou)