KING'S
College
LONDON

Curriculum Vitae of Giuseppe TINAGLIA

giuseppe.tinaglia@kcl.ac.uk

Education

- **Ph.D. in Mathematics**   2005
  The Johns Hopkins University
  Thesis Advisor: Professor William Minicozzi

- **Laurea cum Laude in Mathematics**   2001
  University of Bologna, Italy
  Thesis Advisor: Professor Massimo Ferri

Professional Employment

- **Reader in Mathematics**   Sep. 2017–present
  Kings College London

- **Senior Lecturer in Mathematics**   Sep. 2015–August 2017
  Kings College London

- **Lecturer in Mathematics**   Jan. 2010–Aug. 2015
  Kings College London

- **Postdoctoral Fellow**   Jan. 2009–Dec. 2009
  University of Warwick

- **Research Assistant Professor**   Aug. 2006–Dec. 2008
  University of Notre Dame

- **Postdoctoral Fellow**   Aug. 2005–July 2006
  Stanford University

Research Interests

- **Geometric Analysis** with current emphasis on Minimal and Constant Mean Curvature Surfaces.

Honors and Grants

- Nomination, 2016 Teaching Excellence Award, King's College London.

- Nomination, 2014 Teaching Excellence Award, King's College London.

- Nomination, 2014 Best Project Advisor Award, King's College London.

- Nomination, 2011 Teaching Excellence Award, King's College London.

- William Kelso Morrill Award for Excellence in the Teaching of Mathematics, The Johns Hopkins University, 2003.

- Finalist, 2003 Alumni Association Excellence in Teaching Award, The Johns Hopkins University.

- Royal Society Newton Mobility Award, £11,600, August 2016-18

- LMS Grant, £6000 (with UCL) to organize End of the Year London Geometry Conference, December 2016

- EPSRC Grant, £244,300—Grant Number EP/M024512/1, 2015-2018

- LMS Grant, £2000 to organize Geometry Day IV

- EPSRC Overseas Travel Grant, £12908—Grant Number EP/L003163/1, 2013-2014

- LMS Grant, £600 to organize Geometry Day II

- EPSRC Grant, £99836—Grant Number EP/I01294X/1 (First Grant), 2011-2013

Published Articles

[21] Limit lamination theorems for H-surfaces, joint with W. H. Meeks III, *Crelle* (to appear), arXiv:1510.07549

[20] Constant mean curvature surfaces, joint with W. H. Meeks III and J. Pérez, *Surveys in Differential Geometry, International Press*, (2016), arXiv:1605.02512

[19] Chord arc properties for constant mean curvature disks, joint with W. H. Meeks III, *Geometry & Topology*, 22 (2018) 305–322

[18] Non-properly Embedded H-Planes in $\mathbb{H}^2 \times \mathbb{R}$, joint with B. Coskunuzer and W. H. Meeks III, *Mathematische Annalen* (2018), 370(3), 1491–1512. (2017)

[17] Non-properly embedded H-planes in $\mathbb{H}^3$, joint with B. Coskunuzer and W. H. Meeks III, *Journal of Differential Geometry*, Volume 105, Number 3 (2017), pp. 405-425

[16] Topological Type of Limit Laminations of Embedded Minimal Disks, joint with J. Bernstein, *Journal of Differential Geometry*, Volume 102, Number 1 (2016), 1-23

[15] Non-proper complete minimal surfaces embedded in $\mathbb{H}^2 \times \mathbb{R}$, joint with M. Rodriguez, *Int Math Res Notices*, (2015), (12): 4322-4334

[14] $C^{1,\alpha}$ regularity for surfaces with mean curvature in L^p, joint with T. Bourni, *Ann. Global Anal. Geom.* 46 (2014), no. 2, 159-186

[13] The number of constant mean curvature isometric immersions of a surface, joint with B. Smyth, *Comment. Math. Helv.* 88 (2013), no. 1, 163-183

[12] Density estimates for compact surfaces with total boundary curvature less than 4π, joint with T. Bourni, *Comm. Partial Differential Equations* 37 (2012), no. 10, 1870-1886

[11] On curvature estimates for constant mean curvature surfaces, *Geometric analysis: partial differential equations and surfaces*, 165-185, Contemp. Math., 570, Amer. Math. Soc., Providence, RI, 2012

[10] Curvature estimates for surfaces with bounded mean curvature, joint with T. Bourni, *Trans. Amer. Math. Soc.* 364 (2012), no. 11, 5813-5828

[9] The rigidity of embedded constant mean curvature surfaces, joint with W. H. Meeks III, *J. Reine Angew. Math.* 660 (2011), 181-190

[8] Existence of regular neighborhoods for H-surfaces, joint with W. H. Meeks III, *Illinois J. Math.* 55, no. 3, 835-844 (2011)

[7] The dynamics theorem for CMC surfaces in $\mathbb{R}^3$, joint with W. H. Meeks III, *Journal of Differential Geometry* Volume 85, number 1 (2010), 141–173, arXiv:0805.1427

[6] On the moduli space of constant mean curvature isometric immersions of a surface, *Geometry Seminars. 2005-2009*, Univ. Stud. Bologna

[5] Curvature estimates for minimal surfaces with total boundary curvature less than 4π, *Proc. Amer. Math. Soc.* 137 (2009), 2445-2450 arXiv:0712.1500

[4] Structure theorems for embedded disks with mean curvature bounded in L^P, *Comm. Anal. Geom.* 16 (2008), no. 4, 819–836, arXiv:0712.0409

[3] Multi-valued graphs in embedded constant mean curvature disks, *Trans. Amer. Math. Soc.* 359 (2007), 143–164, arXiv:0409184

[2] A generalization of Radó's theorem for almost graphical boundaries, *Math. Zeit.* 251 (2005), 849–858, joint with B. Dean, arXiv:0502551

[1] Local behavior of embedded constant mean curvature disks, *Geometry Seminars. 2001-2004*, 73–80, Univ. Stud. Bologna, Bologna, 2004.

Preprints posted on arxiv.org

[6] A collapsing ancient solution of mean curvature flow in $\mathbb{R}^3$, joint with T. Bourni, Mat Langford, arXiv:1705.06981

[5] The geometry of constant mean curvature surfaces in $\mathbb{R}^3$, joint with W. H. Meeks III, arXiv:1609.08032

[4] Curvature estimates for constant mean curvature surfaces, joint with W. H. Meeks III, arXiv:1502.06110

[3] One-sided curvature estimates for H-disks, joint with W. H. Meeks III, arXiv:1408.5233

[2] Limit lamination theorem for H-disks, joint with W. H. Meeks III, arXiv:1510.05155

[1] Triply periodic constant mean curvature surfaces, joint with W. H. Meeks III, arXiv:1611.05706

Ph.D. Supervision

- Francesca Tripaldi (2017), Albert Wood (Current)

Postdoc Supervision

- Jose Miguel Manzano (2015-2017 EPSRC)

Synergetic Activities

- Writer of the section "A glance beyond the surface" in http://maddmaths.simai.eu (Italian)
- Member of the EPSRC Associate Peer Review College
- Member of the scientific committee for London/Brussels Geometry Seminars
- Referee: LMS journals, Proceedings of the AMS, Transactions of the AMS, American Journal of Mathematics, Geometria Dedicata, Mathematische Zeitschrift, PJM, AGAG, AMPA, Indiana University Mathematics Journal, Duke, JDG.
- Reviewer: MatSciNet.
- Organized: End of the Year London Geometry Conference (at King's together with Imperial and UCL), December 14-18, 2015;
  KCL Geometry Day IV, May 10, 2013;
  KCL Geometry Day III, May 4, 2012;
  KCL Geometry Day II, November 11, 2011;
  KCL Geometry Day I, May 13, 2011;

Teaching Experience

• King's College London	Geometry of Surfaces	Spring 2011-present
	Geometry I	Fall 2010
• Beijing Normal University	Mini-course on Minimal Surfaces	April 2017
• LTCC	Minimal Surfaces	Autumn 2015
	Minimal Surfaces	Spring 2015
	Riemann Surfaces	Spring 2014
	Constant mean curvature surfaces	Fall 2011
• University of Warwick	Advanced P.D.E.	Fall 2009
• University of Notre Dame	Calculus I	Fall 2008
	Topics in Differential geometry	Spring 2008
	Differential Equations	Fall 2007
	Calculus I	Fall 2007
	Topics in Differential geometry	Spring 2007
	Differential Equations	Fall 2006

4

- The Johns Hopkins Introduction to Calculus   Fall 2004
  University

    Linear Algebra   Summer 2004

    Calculus III   Summer 2003

    Graduate Teaching Assistant Fall 2001-Spring 2005

Invited Speaker. 2016-2018

[19]	Apr 29, 2018	University of Granada
[18]	Jan 29- Feb 2, 2018	*Young Geometric Analysts' Forum, 2018* Tsinghua Sanya IMF, China
[17]	Jan, 2018	*Workshop on Minimal Surfaces* University of Granada, Spain
[16]	Oct 26-30, 2017	*Geometry, Analysis and Probability Workshop* Peking University
[15]	Oct 4, 2017	University of Leeds
[14]	May 29- June 2, 2017	*Variational methods in submanifold theory* LMS Northern Regional Meeting, University of York
[13]	February 20, 2017	University of Paris
[12]	December 12-16, 2016	*Geometric PDE* University of Warwick
[11]	November 15, 2016	University of Leichester
[10]	October 24, 2016	Free University Berlin
[9]	October 17, 2016	Oxford University
[8]	September 21, 2016	MIT
[7]	August 29- September 3, 2016	*First Joint Meeting Brazil - Italy in Mathematics* IMPA, Brazil
[6]	August 19, 2016	Beijing Normal University
[5]	August 18, 2016	Tsinghua University
[4]	May 6, 2016	Imperial College
[3]	March 14-18, 2016	*VI Workshop on Differential Geometry* Maceio, Brazil
[2]	January 18-22, 2016	*Young Geometric Analysts' Forum 2016* Tsinghua Sanya IMF, China
[1]	January 5-8, 2016	*Geometric Flows Conference* Queen University, London