

UNIVERSITÀ DEGLI STUDI DI MILANO

selezione pubblica per n.1 posto/i di Ricercatore a tempo determinato in tenure track (RTT)
per il settore concorsuale 01/A2 - GEOMETRIA E ALGEBRA - settore scientifico disciplinare MAT/03 -
GEOMETRIA presso il Dipartimento di MATEMATICA "FEDERIGO ENRIQUES", (avviso bando pubblicato
sulla G.U. n. 49 del 18/06/2024) - Codice concorso 5581.

Marcos Paulo Tassi

CURRICULUM VITAE (in inglese)

Personal Information

Surname	Tassi
Name	Marcos Paulo
Date of birth	August 19th, 1991
Bibliographic citation	TASSI, M. P.; TASSI, M.P.

Presentation

In 2013, I obtained my Bachelor Degree in Mathematics from Federal University of São Carlos. In 2013, I ingressed in the Master's Program in Mathematics of Federal University of São Carlos, and I concluded the same in 2015, under the supervision of Professor Dr. Guillermo Antonio Lobos Villagra. In 2015, I ingressed as a student with CAPES scholarship in the Doctorate Program in Mathematics of Federal University of São Carlos, under the initial supervision of Professor Dr. Guillermo Antonio Lobos Villagra. In 2017, I obtained a sandwich scholarship from CAPES (PDSE/88881.133043/2016-01) for a year of study (2017-2018) in University of Granada, in the Department of Geometry and Topology, under the supervision of Professor Dr. José Antonio Gálvez López. In 2019, I obtained a Double Degree of Doctor in Mathematics from Federal University of São Carlos and from University of Granada. From 2021 to 2022, I was a post doctoral fellow in University of São Paulo, under the supervision of Professor Ruy Tojeiro de Figueiredo Junior and since 2023 I am a post doctoral fellow at University of L'Aquila, under supervision of Professor Barbara Nelli. My research area is Differential Geometry, with emphasis in Submanifold Theory and Geometric Analysis, where I study the following topics: pseudo-parallel submanifolds, Enneper-type and Joachimsthal hypersurfaces, elliptic Weingarten surfaces, constant anisotropic mean curvature surfaces and uniqueness of immersed spheres modeled by elliptic PDE fields.

Academic Appointments

2023-current	Post Doctoral Position. Assegno di ricerca at Dipartimento di Ingegneria e Scienze dell'Informazione e Matematica, Università degli Studi dell'Aquila, L'Aquila, Italy. Supervisor: Prof. Barbara Nelli Time period: from 01/01/2023 to 31/12/2024
2021-2022	Post Doctoral Position. Post doctoral position at the Institute of Computer Sciences and Mathematics, University of São Paulo, São Carlos - SP, Brazil. Supervisor: Prof. Ruy Tojeiro de Figueiredo Junior Time period: from 01/08/2020 to 29/10/2022

Education (Higher Degrees)	
2015-2019	<p>Ph.D. in Mathematics Federal University of São Carlos, UFSCar, Brazil, and University of Granada, UGR, Spain Year of degree: 2019 Advisors: Guillermo Antonio Lobos Villagra (UFSCar) José Antonio Gálvez López (UGR) Thesis: Pseudo-parallel immersions in S_{nR} and H_{nR}, and constant anisotropic mean curvature surfaces in R^3 URL1: https://repositorio.ufscar.br/handle/ufscar/12739 URL2: https://digibug.ugr.es/handle/10481/62278 ISBN: 9788413064925 Grantee of: Coordenação de Aperfeiçoamento de Pessoal de Nível Superior, CAPES, Brazil Time period: from 13/03/2015 to 20/12/2019 Mention: cum laude</p>
2013-2015	<p>Master in Mathematics Federal University of São Carlos, UFSCar, Brazil Year of degree: 2015 Advisor: Guillermo Antonio Lobos Villagra (UFSCar) Dissertation: Classificação das hipersuperfícies paralelas e semi paralelas em S_{nR} URL: https://repositorio.ufscar.br/handle/ufscar/7465 Grantee of: Coordenação de Aperfeiçoamento de Pessoal de Nível Superior, CAPES, Brazil Time period: from 15/03/2013 to 30/03/2015 Score: 110/110</p>
2010-2013	<p>Bachelor Degree in Mathematics Federal University of São Carlos, UFSCar, Brazil Year of degree: 2013 Conclusion: 21/12/2013 Score: 18823/20000</p>

Complementary Education	
2018-2018	Quasi-geodesic Flows. (Credit Hours: 6h). University of Granada, UGR, Spain.
2015-2015	Summer Course in Differential Topology. (Credit Hours: 60h). Federal University of São Carlos, UFSCar, Brazil.
2015-2015	Summer Course in Advanced Calculus. (Credit Hours: 60h). Federal University of São Carlos, UFSCar, Brazil.
2012-2012	Summer Course in Real Analysis. (Credit Hours: 60h). Federal University of São Carlos, UFSCar, Brazil.
2012-2012	Summer Course in Linear Algebra. (Credit Hours: 60h). Federal University of São Carlos, UFSCar, Brazil.

Research Identifiers	
Web of Science ResearcherID	A-5209-2019
ORCID identifier	0000-0002-9575-1434
Google Scholar URL: https://scholar.google.com.br/citations?user=0x2tU_UAAAAJ&hl=ptBR&oi=ao	

Areas of Expertise	
1	Major Area: Exact and Earth Sciences / Area: Mathematics / Subarea: Geometry and Topology / Specialty: Differential Geometry.

Scientific Production	
Articles in Scientific Journals	
1	GÁLVEZ, J.A.; MIRA, P.; TASSI, M.P., <i>Analytic saddle spheres in S^3 are equatorial</i> , MATHEMATISCHE ANNALEN, 2024. DOI: https://doi.org/10.1007/s00208-023-02741-4
2	GÁLVEZ, J.A.; MIRA, P.; TASSI, M.P., <i>Complete surfaces of constant anisotropic mean curvature</i> , ADVANCES IN MATHEMATICS, 428, 2023. DOI: https://doi.org/10.1016/j.aim.2023.109137
3	GÁLVEZ, J.A.; MIRA, P.; TASSI, M.P., <i>A quasiconformal Hopf soap bubble theorem</i> , CALCULUS OF VARIATIONS AND PARTIAL DIFFERENTIAL EQUATIONS, 61, issue 4, 2022. DOI: https://doi.org/10.1007/s00526-022-02222-7
4	LOBOS, G.A.; TASSI, M.P.; HANCCO, A.J. YUCRA, <i>Pseudo-parallel surfaces of $S_n \times \mathbb{R}$ and $H_n \times \mathbb{R}$</i> , BULLETIN OF THE BRAZILIAN MATHEMATICAL SOCIETY, 50, 705-715, 2019. DOI: https://doi.org/10.1007/s00574-018-00126-9
5	LOBOS, G.A.; TASSI, M.P., <i>A classification of pseudo-parallel hypersurfaces of $S_n \times \mathbb{R}$ and $H_n \times \mathbb{R}$</i> , DIFFERENTIAL GEOMETRY AND ITS APPLICATIONS, 62, 72-82, 2019. DOI: https://doi.org/10.1016/j.difgeo.2018.09.002
Preprints	
1	NELLI, B.; PIPOLI, G.; TASSI, M.P., <i>Special Weingarten surfaces with convex planar boundary</i> , 2024, Preprint. https://arxiv.org/abs/2406.16511

Invited Talks	
1	PRIN Meeting: Differential-geometric aspects of manifolds via Global Analysis, <i>Elliptic Weingarten surfaces in \mathbb{R}^3 with convex planar boundary</i> , Turin, Italy, 2024. URL: https://sites.google.com/view/dgamga
2	A Spring Day in Geometric Analysis, <i>Analytic spheres in S^3 are equatorial</i> , Rome, Italy, 2024. URL: https://sites.google.com/view/sdgeometricanalysis/home-page
3	INdAM Meeting: Recent advances in the theory of submanifolds, <i>Analytic saddle spheres in S^3 are equatorial</i> , Roma, Italy, 2023. URL: https://sites.google.com/view/recentadvancessubmanifolds2023/home
4	INdAM Meeting: Geometric Analysis and PDE's, <i>A quasiconformal Hopf soap bubble theorem</i> , Cortona, Italy, 2023. URL: https://sites.google.com/view/gaandpde-cortona23/home
5	IV Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura, Aplicada e Estatística (CBJME), <i>Superfícies de Curvatura Média Anisotrópica Constante</i> , João Pessoa, Brazil, 2022. URL: http://www.mat.ufpb.br/jovens/
6	Workshop on Submanifold Theory and Geometric Analysis, <i>Constant anisotropic mean curvature surfaces</i> , São Carlos, Brazil, 2019. URL: https://www.dm.ufscar.br/ppgm/index.php/extensao/eventos/wstga

7	First Student's Day, <i>Classification of Pseudo-Parallel Hypersurfaces of $S_n \times R$ and $H_n \times R$</i> , São Carlos, Brazil, 2016.
---	--

Seminars

1	Differential Geometry Seminar at UNAM, <i>Elliptic Weingarten surfaces in R^3 with convex planar boundary</i> , Querétaro, Mexico, 2024. URL: https://www.matem.unam.mx/juriquilla/actividades/seminarios/seminario-de-geometria-diferencial/actividades/elliptic-weingarten-surfaces-in-r3-with-convex-planar-boundary
2	Seminários de Geometria de São Carlos, <i>Elliptic Weingarten surfaces in R^3 with convex planar boundary</i> , São Carlos, Brazil, 2024. URL: https://www.dm.ufscar.br/ppgm/index.php/pesquisa/seminarios/geometria/1372-seminario-de-geometria-de-sao-carlos-2024
3	Seminários de Geometria de São Carlos, <i>Analytic saddle spheres in S^3 are equatorial</i> , São Carlos, Brazil, 2024. URL: https://www.dm.ufscar.br/ppgm/index.php/pesquisa/seminarios/geometria/1372-seminario-de-geometria-de-sao-carlos-
4	Seminario del Departamento de Geometría y Topología, <i>Superficies de Curvatura Media Anisotrópica Constante</i> , Granada, Spain, 2019. URL: https://wpd.ugr.es/~geometry/seminar/es
5	6º Ciclo de Palestras da Pós-Graduação. <i>Superfícies Mínimas</i> . São Carlos, Brazil, 2016. URL: https://www.dm.ufscar.br/ppgm/index.php/pesquisa/seminarios/ciclo-de-palestras

Poster Presentations

1	31º Colóquio Brasileiro de Matemática, <i>Classification of Pseudo-Parallel Hypersurfaces of $S_n \times R$ and $H_n \times R$</i> , Rio de Janeiro, Brazil, 2017. URL: https://impa.br/eventos-do-impa/eventos-2017/31o-coloquio-brasileiro-de-matematica/
2	VII Workshop on Differential Geometry. <i>Pseudo-Parallel Surfaces of $S_n \times R$ and $H_n \times R$</i> , Maceió, Brazil, 2017. URL: https://geometry-maceio.sciencesconf.org/
3	XIX School on Differential Geometry, <i>Pseudo-Parallel Surfaces of $S^3 \times R$ and $H^3 \times R$</i> , Rio de Janeiro, Brazil, 2016. URL: https://impa.br/sobre/memoria/reunioes-cientificas/xix-school-on-differential-geometry/
4	XIX Congresso de Iniciação Científica da UFSCar. <i>Estudo de um tema sobre transformações do plano através da metodologia investigação</i> , São Carlos, Brazil 2011.

Teaching Activities

2023-2024	Tutor for the course “Matemática Discreta B”, at Informatics. 30 hours. Università degli Studi dell'Aquila, UNIVAq, Italy. Time period: from 26/02/2024 to 07/06/2024.
2023-2024	Tutor for the course “Geometria B”, at Mathematics. 30 hours. Università degli Studi dell'Aquila, UNIVAq, Italy. Time period: from 25/09/2023 to 12/01/2024.
2016	Tutor for the course “Geometria Euclidiana - 081639 - Turma B”, at

	Mathematics. 30 hours. Federal University of São Carlos, UFSCar, Brazil. Time period: from 29/02/2016 to 02/07/2016.
2014	Tutor for the course “Introdução à Teoria dos Números - 080209 – Turma A”, at Mathematics. 30 hours. Federal University of São Carlos, UFSCar, Brazil. Time period: from 10/03/2021 to 19/07/2014.

Visiting Periods

04/2022 – 06/2022	Department of Geometry and Topology of University of Granada, Spain. Time period: from 04/04/2022 to 30/06/2022. URL: https://wpd.ugr.es/~imag/2022-2/
09/2019 – 11/2019	Department of Geometry and Topology of University of Granada, Spain. Time period: from 05/09/2019 to 20/11/2019. URL: https://wpd.ugr.es/~imag/visitors-2019/

Organization of Events

1	Differential Geometry at L’Aquila 2023 - L’Aquila, Italy – 20-22 September 2023. URL 1: https://sites.google.com/view/dgaq23/home-page URL 2: https://gecogedi.dimai.unifi.it/event/1251/
---	--

Awards and Titles

2009	Silver medal in the Brazilian Mathematical Olympiad of Public Schools (OBMEP).
2008	Brass medal in the Brazilian Mathematical Olympiad of Public Schools (OBMEP).
2007	Honorable mention in the Brazilian Mathematical Olympiad of Public Schools (OBMEP).
2006	Gold medal in the Brazilian Mathematical Olympiad of Public Schools (OBMEP).

Other Titles

Referee Activities	Mathscinet; Journal of Mathematical Analysis and Applications; AIMS Mathematics.
Fundings	“Fondo di Ateneo – Progetto di Avvio per la Ricerca 2024”, Università degli Studi dell’Aquila, L’Aquila, Italy.

Participation in Events

1	PRIN Meeting: Differential-geometric aspects of manifolds via Global Analysis, Turin, Italy, 2024. URL: https://sites.google.com/view/dgamga
2	A Spring Day in Geometric Analysis, Rome, Italy, 2024. URL: https://sites.google.com/view/sdgeometricanalysis/home-page
3	Workshop of Differential Geometry and Geometric Analysis, Fortaleza, Brazil, 2024. URL: https://sites.google.com/mat.ufc.br/montezuma/in%C3%ADcio/differential-geometry-and-geometric-analysis
4	Differential Geometry at L’Aquila 2023, L’Aquila, Italy, 2023.

	URL: https://sites.google.com/view/dgaq23/home-page
5	INdAM Meeting: Recent advances in the theory of submanifolds, Roma, Italy, 2023. URL: https://sites.google.com/view/recentadvancesubmanifolds2023/home
6	Real and Complex Manifolds: Topology, Geometry and Holomorphic Dynamics, Roma, Italy, 2023. URL: https://sites.google.com/unifi.it/manifolds-2023/
7	INdAM Meeting: Geometric Analysis and PDE's, Cortona, Italy, 2023. URL: https://sites.google.com/view/gaandpde-cortona23/home
8	Workshop on Submanifold Theory and Geometric Analysis, São Carlos, Brazil, 2019. URL: https://www.dm.ufscar.br/ppgm/index.php/extensao/eventos/wstga
9	31º Colóquio Brasileiro de Matemática, Rio de Janeiro, Brazil, 2017. URL: https://impa.br/eventos-do-impa/eventos-2017/31o-coloquio-brasileiro-de-matematica/
10	VII Workshop on Differential Geometry, Maceió, Brazil, 2017. URL: https://geometry-maceio.sciencesconf.org/
11	6º Ciclo de Palestras da Pós-Graduação, São Carlos, Brazil, 2016. URL: https://www.dm.ufscar.br/ppgm/index.php/pesquisa/seminarios/ciclo-de-palestras
12	First Student's Day, São Carlos, Brazil, 2016.
13	XIX School on Differential Geometry, Rio de Janeiro, Brazil, 2016. URL: https://impa.br/sobre/memoria/reunioes-cientificas/xix-school-on-differential-geometry/
14	Escola de Verão de Geometria e Topologia, São Carlos, Brazil, 2012. URL: https://www.dm.ufscar.br/profs/lobos/EVGT2012/
15	XIX Congresso de Iniciação Científica da UFSCar, São Carlos, Brazil, 2011.

Other Relevant Information

I spent a period of investigation in Spain, invited by Professor José Antonio Gálvez López, from the Department of Geometry and Topology of University of Granada, during 05/09/2019 to 20/11/2019 and completely supported by the Investigation Project "Superficies y ecuaciones en derivadas parciales geométricas" of the Spanish Ministry of Economy and Competitiveness (reference MTM2016-80313-P). During the investigation period, I gave a talk entitled "Superficies de Curvatura Media Anisotrópica Constante".

I participated as co-supervisor of the Master's degree in Mathematics of the student Alan Sousa França, enrolled on 17/03/2021 and graduated on 16/02/2023 at the Institute of Mathematics and Computer Science (ICMC) of the University of São Paulo, supervised by Professor Ruy Tojeiro de Figueiredo Junior. The final version of Alan's master's thesis can be found at:

<https://www.teses.usp.br/teses/disponiveis/55/55135/tde-27042023-143159/pt-br.php> and my participation as co-supervisor is also registered in the Dedalus system at the University of São Paulo.

Data: 16 luglio 2024

Luogo: L'Aquila