## Marlon de Oliveira Gomes

Contact Information	Mathematics Department 3-101 Stony Brook University 100 Nicolls Road Stony Brook, NY 11794 E-mail: mgomes@math.stonybrook.edu		
Research Interests	Differential Geometry, 4-dimensional manifolds, Complex Geometry	try.	
Education	Stony Brook University, Stony Brook, NY, U.S.A.		
	Ph.D., Mathematics,	Aug 2014 - Present	
	<ul> <li>Expected: Summer 2020</li> <li>Thesis Topic: Anti-self-dual metrics from the geometry of plane conics.</li> <li>Advisor: Claude LeBrun</li> </ul>		
	Universidade Federal do Ceara, Fortaleza, CE, Brazil.		
	M.S., Mathematics,	Aug 2011 – Aug 2013	
	<ul> <li>Graduated with Honors</li> <li>Thesis title: The Bernstein Problem.</li> <li>Advisors: Luquésio Petrola de Melo Jorge, Ph.D and Luciano Mari, Ph.D</li> <li>Keywords: Minimal Submanifolds, Stability, Sets of Finite Perimeter.</li> <li>Area of Knowledge: Differential Geometry.</li> </ul>		
	B.S., Mathematics	Mar 2009 – Jun 2011	
PUBLICATIONS	<ol> <li>Birbrair, L., Gomes, M., and Pereira, W. "Resonance seque Inter. J. Number Theory, 11 (2) pp.495-506, 2015. doi:10.114</li> </ol>		
Papers in Preparation	1. Gomes, M. "Anti-self-dual metrics from the geometry of $\mathbf{p}$	plane conics."	
Fellowships	<ul> <li>CAPES/LASPAU Science Without Borders Ph.D. Fellowship</li> <li>CAPES Masters Degree Fellowship</li> <li>IMPA Summer Fellowship</li> <li>CNPq Undergraduate Research Fellowship</li> </ul>	, Aug 2014 - Jul 2018 Aug 2011 - Jul 2013 Jan 2010 - Feb 2010 Mar 2009 - Jul 2011	
Awards and Honors	<ul> <li>Chairman's Award for Excellence in Teaching by a Graduate Student Receiving a Ph.D.</li> <li>Department of Mathematics,</li> <li>Steven Brack Using Steven Brack, USA</li> </ul>	2020	
	<ul> <li>Stony Brook University, Stony Brook, USA.</li> <li><i>Teaching Award: "Outstanding educator."</i> The Governor's School for Mathematics, Science and Technology Lynchburg, College, Lynchburg, VA, USA</li> </ul>	2016 ogy,	
	<ul> <li>Lynchburg College, Lynchburg, VA, USA.</li> <li>Master's Dissertation Approved with Honors Department of Mathematics,</li> <li>Universidada Fachardada Confér Fortaleza, Burgil</li> </ul>	2013	
	<ul> <li>Universidade Federal do Ceará, Fortaleza, Brazil.</li> <li>Teaching Award, "in recognition for the outstanding work in the of Mathematics Olympiad teams"</li> <li>Coordination of the Ceará State Mathematics Olympiad, Universidade Federal do Ceará, Fortaleza, Brazil.</li> </ul>	the preparation 2013	

	<ul> <li>Silver Medal - Brazilian National Physics Olympiad</li> <li>Honorable Mention - Ceará State Mathematics Olympiad</li> <li>Gold Medal - Ceará State Mathematics Olympiad for Public Scho</li> <li>Bronze Medal - Brazilian National Mathematics Olympiad for Public</li> </ul>		2008 2008 2006 2006
INVITED TALKS	Anti-self-dual metrics, Twistors, and Plane Conics CUNY Almost Complex Geometry Seminar, New York, NY.	Nov	2019
	Conics, Twistors, and Anti-self-dual metrics. Union College Mathematics Conference, Schenectady, NY.	Sep	2019
Conferences	• Geometry of Manifolds. Simong Conton for Coometry and Physics, Stony Preak, USA	Oct	2017
ATTENDED	<ul> <li>Simons Center for Geometry and Physics, Stony Brook, USA.</li> <li><i>Thematic Program on Kähler Geometry.</i> University of Notre Dame, Notre Dame, USA.</li> </ul>	Jun	2017
	<ul> <li>Conference in Differential Geometry: in Honour of Claude LeBrun's 60th birthday.</li> </ul>	Jul	2016
	<ul> <li>Université du Québec à Montréal, Montreal, Canada.</li> <li>3rd Biannual Stony Brook Mini-school in Geometry: An invitation to Gromov-Witten Theory. Stony Brook University, Stony Brook, USA.</li> </ul>	Jan	2015
Teaching Experience	Stony Brook University, United States		
	<ul> <li>Teaching Assistant, Department of Mathematics.</li> <li>Courses taught as instructor:</li> <li>MAT 118 - Mathematical Thinking (Summer 2015)</li> <li>MAT 127 - Calculus C (Summer 2015)</li> <li>MAT 132 - Calculus II (Summer 2016, Summer 2017, Sun MAT 203 - Calculus III with Applications (Summer 2018, MAT 303 - Calculus IV with Applications (Summer 2018)</li> <li>MAT 511 - Fundamental Concepts of Mathematics (Summ MAT 514 - Analysis for Teachers II (Summer 2020)</li> <li>Recitations:</li> <li>MAT 123 - Introduction to Calculus (Spring 2016)</li> <li>MAT 125 - Calculus B (Spring 2015)</li> <li>MAT 131 - Calculus I (Fall 2017)</li> <li>MAT 132 - Calculus II (Fall 2015)</li> <li>MAT 132 - Calculus II (Fall 2018, Spring 2019)</li> <li>MAT 303 - Calculus IV with Applications (Spring 2016, 2019)</li> <li>MAT 319 - Foundations of Analysis (Fall 2016)</li> <li>Courses graded:</li> <li>MAT 200 - Logic, Language and Proof (Fall 2015)</li> <li>MAT 324 - Real Analysis (Fall 2014)</li> </ul>	Summer 202 ner 2019)	20)
	Universidade Federal do Ceará, Brazil		
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Substitute Professor, Department of Mathematics. Aug 2013 – Jun 2014 Courses taught as instructor:

CB0587 - Calculus with Analytic Geometry I

CB0588 -	Calculus	with	Analytic	Geometry	Π

CB0536 - Integral and Differential Calculus III

CB0683 - Applied Mathematics

 $\operatorname{CB0696}$  - Introduction to Algebra

CB0669 - Applied Vector Calculus

CB0534 - Integral and Differential Calculus I

CB0674 - Supervised Training in Mathematics Teaching III

	Sete de Setembro School, Brazil Worked with Middle and High school students as a coach for at State, National and International levels.	Mar 2013 – Jul 2014 r Mathematics olympiads		
	Master School, Brazil Worked with Middle and High school students as a coa Informatics olympiads at State and National levels.	Apr 2013 – Dec 2013 ch for Mathematics and		
	Universidade da Integração Internacional da Lusofonia Afro-Brasileira, Brazil Worked as Instructor for courses in the Bachelor's degr Natural Sciences. The audience consisted of local students Guiné-Bissau and Timor-Leste, participants of the University	, as well as students from		
Outreach	Institute for STEM Education, Stony Brook Universit	ty.		
ACTIVITIES	Instructor for the Stony Brook Mathematics Summer Program.			
	<ul> <li>Mini-course: Two-person Games and the Minimax The</li> <li>Mini-course: Planar Graphs, Euler's Formula, and Pla</li> <li>Mini-course: Coloring Problems in Graph Theory.</li> <li>Mini-course: An Introduction to Graph Theory.</li> </ul>	eorem. Jul 2019		
	Instructor for the Math in Jeans program.			
	• Mini-course: An Introduction to Algorithms.	Mar - Apr 2017		
Service	Graduate Student Representative.	Aug 2017 - Jul 2018		
	Met with the Graduate Commitee to discuss final exams and written qualifying exams. Represented students interests in Graduate Commitee meetings.			
	Co-organizer, Student Differential Geometry Seminar	. Aug 2018 - Present		
	A seminar on topics related to Complex Differential Geometry, Riemannian Geometry and Geometric Analysis.			
	<ul> <li>Spectral Theory of the Laplacian.</li> <li>Topics in Scalar Curvature.</li> <li>Einstein Metrics and Special Holonomy.</li> </ul>	Fall 2019 Spring 2019 Fall 2018		
	Co-organizer, RTG in Geometry Seminar.	Aug 2017 - May 2018		
	A student seminar on topics on the interface of Algebraic, Differential and Symplectic Geometry.	-		
	<ul> <li>Stability Conditions and Wall-crossing Phenomena.</li> <li>Introduction to Mirror Symmetry.</li> </ul>	Spring 2018 Fall 2017		

References	Claude LeBrun Professor Mathematics Department Stony Brook University, Stony Brook, N	Phone: +1 631 632 8254 E-mail: claude@math.stonybrook.edu NY, U.S.A.
	<ul> <li>H. Blaine Lawson, Jr.</li> <li>Distinguished Professor</li> <li>Mathematics Department</li> <li>Stony Brook University, Stony Brook, N</li> </ul>	Phone: +1 631 632 8285 E-mail: blaine@math.stonybrook.edu NY, U.S.A.
	Xiuxiong Chen Distinguished Professor, Mathematics Department Stony Brook University, Stony Brook, N	Phone: +1 631 632 8327 E-mail: xiu@math.stonybrook.edu NY, U.S.A.
	Lowell Jones Professor, Mathematics Department Stony Brook University, Stony Brook, N	Phone: +1 631 632 8248 E-mail: lejones@math.stonybrook.edu NY, U.S.A