



“Analysis of High Dimensional Non-hyperbolic Coupled Systems through Finite-time Lyapunov Exponents”, with Leonardo G. Brunnet. *Physica A*, v. 387 p. 425-431, January 2008.

[www.sciencedirect.com/science/article/pii/S0378437107010023](http://www.sciencedirect.com/science/article/pii/S0378437107010023)

“Dynamics at the Interface Dividing Collective Behavior and Synchronized States in a CML”, with Leonardo G. Brunnet. *Physica A*, v. 360, p. 159-170, February 2006.

[www.sciencedirect.com/science/article/pii/S0378437105006904](http://www.sciencedirect.com/science/article/pii/S0378437105006904)

### Honors and Awards

Assistantship–Scholarship (Mathematics Department, SUNY at Stony Brook, 2006 — present).

Presidential Fellowship (SUNY at Stony Brook, 2008 — 2010).

Distinction in the Ph.D. Oral Exam (Mathematics Department, SUNY at Stony Brook, 2008).

Fulbright-CAPES Graduate Fellowship (Declined, 2005).

Graduate Physics Research Fellowship (CNPq, Brazil, 2003 — 2005).

Undergraduate Fellowship (FAPERGS, Brazil, 2000 — 2003).

### Seminars and Presentations

“Compactness and Non-compactness of the Yamabe Problem on Manifolds with Boundary”. Presented at the Geometry and Analysis Seminar, Columbia University, New York, Oct 2011.

\_\_\_\_\_. Presented at the Differential Geometry Seminar, CUNY Graduate Center, New York, Oct 2011.

“A Compactness Theorem for the Yamabe Problem on Manifolds with Boundary”. Presented at the 68th Midwest PDE Seminar, University of Notre Dame, Notre Dame, November 2011.

\_\_\_\_\_. Presented at the 2011 Barrett Memorial Lectures in Mathematical Relativity, University of Tennessee, Knoxville, May 2011.

“Holographic Renormalization and Correlation Functions”. Presented at the RTG Seminar in Geometry and Physics, SUNY at Stony Brook, May 2009.

“Some Geometry on the Chains and Cochains of a Manifold”. Presented at the Graduate Student Seminar, SUNY at Stony Brook, December 2008.

“Feynman Diagrams in  $\varphi^4$  Theory”. Series of three talks presented at the RTG Seminar in Geometry and Physics, SUNY at Stony Brook, November 2008.

“Some ideas in Conformal Field Theory”. Presented at the RTG Seminar in Geometry and Physics, SUNY at Stony Brook, February 2008.

### Conferences Attended

Mathematical Foundations of Quantum Field Theory, Stony Brook, NY. January 2012.

7th Simons Workshop in Mathematics and Physics, Stony Brook, NY. July – August 2009.

24th Annual Geometry Festival, Stony Brook, NY. April 2009.

6th Simons Workshop in Mathematics and Physics, Stony Brook, NY. June – July 2008.

Stony Brook Dialogues in Mathematics and Physics: A Symposium in Honor of Chen N. Yang and James H. Simons, Stony Brook, NY. March 2008.

5th Simons Workshop in Mathematics and Physics, Stony Brook, NY. July – August 2007.

International Congress on Mathematical Physics, Rio de Janeiro, RJ, Brazil. August 2006.

### Other Academic Experiences

Mathematical Foundations of Quantum Field Theory. Course taken at IMPA (National Institute of Pure and Applied Mathematics, Brazil), January – February, 2006.

Mathematics and Quantum Field Theory. Course taken at IMPA (National Institute of Pure and Applied Mathematics, Brazil), January – February 2005.

### Teaching Experience

Teaching Assistant, Department of Mathematics, SUNY at Stony Brook, August 2006 — Present.

— Course Lecturer: Introduction to Calculus, Introduction to Linear Algebra, Calculus B, Calculus C, Calculus IV with Applications (Differential Equations).

— Recitation Instructor: Calculus A, Calculus B, Calculus I.

Adjunct Professor, Department of Mathematics, Universidade Federal do Rio Grande do Sul, Brazil. June 2005 — June 2006.

— Course Lecturer: Calculus, Differential Equations, Linear Algebra.

### Membership

Member, American Mathematical Society, 2006 — Present.