

# Julio Cesar Rebelo

PUC-Rio (Brazil)

## PERSONAL DATA AND ADDRESS.

NAME: Julio Cesar de Souza Rebelo

PLACE AND DATE OF BIRTH: Rio de Janeiro (Brazil), May 20, 1972.

PERMANENT ADDRESS: PUC-Rio, Marques de Sao Vicente, 225, Gavea, Rio de Janeiro, RJ, CEP 22453-900, Brazil. jrebelo@mat.puc-rio.br

## JOB EXPERIENCE.

- Assistant Professor at PUC-Rio (Brazil): Since March 1997.
- Assistant Visiting Professor at SUNY-SB: March 2002 - June 2003.
- Scholar of Clay Mathematics Institute (visiting Institute for Mathematical Sciences at SUNY-Stony Brook): February 2000 - February 2002.
- Visiting Positions held at the following institutions:
  - IMPA, Rio, Brazil (November/December 1996).
  - Chuo-University, Tokyo, Japan (December 1997).
  - Université de Rennes I, Rennes, France (February 1999).
  - Courant Institute for Mathematical Sciences, NY, USA (June 2002).
  - Université de Paris XI, Orsay, France (March 2005 - March 2006).

## EDUCATION.

- Habilitation à Diriger des Recherches, Université de Rennes 1, December 2005.
- Docteur en Sciences (Ph.D.), École Normale Supérieure de Lyon (France), 1996.  
*Thesis Adviser:* Etienne Ghys.
- D.E.A (equivalence), École Normale Supérieure de Lyon (France), 1993.

## AWARDS.

- International Mathematical Union (IMU): Grant to Attend ICM-98 (Berlin).
- CNPq Research Grant (Brazilian Government): March 1997 - February 2000.
- CNPq Research Grant (Brazilian Government): Since March 2004.
- FAPERJ Research Grant (Brazilian Government): Since June 2004.
- PDE Fellowship from CNPq (Brazilian Government): March 2005 - March 2006.

## SUPERVISION OF PH.D. THESES.

Raderson Rodrigues da Silva, PUC-Rio, Brazil, March 2001.

Magno Branco Alves, PUC-Rio, Brazil, March 2002.

Ana Lucia da Silva, USP-SC, Brazil, April 2004.

Helena Reis, University of Oporto, Portugal (joint with J. Bastos Gonçalves): to be defended in June 2006.

Jesus Zapata, IMPA, Brazil: to be defended in June 2006.

## SELECTED INVITED MINICOURSES.

- Complex ODEs, holomorphic foliations and algebraic manifolds. IMPA (Brazil), January 2004.
- Singularities of holomorphic flows (with emphasis on complex surfaces), Institute for Mathematical Sciences (SUNY - Stony Brook - NY), September 2000.
- Non-degenerated semi-complete singularities, “Patchwork School on singularities of Differential Equations” (Lille - France), March 99.
- Elementary introduction to the singularities of holomorphic flows, Chuo-University (Tokyo - Japan), December 97.
- The Ergodic Theory of the discrete groups, IMPA (Rio de Janeiro - Brazil), August 97 - November 97.

## SELECTED TALKS GIVEN AT INTERNATIONAL EVENTS.

1. August/04 - USP-SC/Brazil “Geometric and Ergodic Theory of Dynamical Systems”.
2. June/04 - CIRM/France “Géométrie des Variétés Complexes”.
3. February/04 - IHP/France “Workshop on complex dynamics”.
4. September/03 - Ryukoko University/Kyoto/Japan “Geometry and Foliations”.
5. August/03 - IMPA/Brazil “Complex Analytic Methods in Dynamical Systems 2003”.
6. July/03 - IMPA/Brazil “24<sup>th</sup> Brazilian Colloquium of Mathematics”.

7. April/03 - Warwick/England “Holomorphic dynamics workshop”.
8. December/01 - Courant Institute (NYU) “Joint Meeting Courant-IBM-Princeton-SUNY-Yale (Plenary Lecture).
9. August/01 - PUC/Brazil “Foliations and Geometry: 2001 Conference” (Plenary Lecture).
10. July/01 - ENS-Lyon/France “First Joint Mathematical International Meeting AMS-SMF”.
11. August/00 - UFF/Brazil “XII-Brazilian Meeting on Topology” (Plenary Lecture).
12. May/00 - Banach Center/Poland “Foliations: Geometry and Dynamics” (Plenary Lecture).
13. September/98 - IMPA/Brazil “Complex Analysis and Dynamical Systems”.
14. August/98 - Technisch Universität/Germany “ICM” (short communication)
15. July/98 - USP-SC/Brazil “XI-Brazilian Meeting on Topology”.
16. August/97 - UFRJ/Brazil “Two-day Meeting on Dynamical Systems”.
17. August/96 - PUC/Brazil “Hyperbolic Geometry and Dynamical Systems”.
18. May/96 - CIRM/France “Feuilletages sur les surfaces complexes” (series of 3 talks)
19. September/95 - University of Valladolid/Spain “Foliations, Singularities and Differential Equations”.

## Talks given at local seminars

- 06 - Dynamical Systems Seminar (Université Paris-Nord, France) “Autour des sous-groupes non-discrets de DIFF (M) leur structure et leur dynamique”.
- 06 - Complex Analysis Seminar (University of Rome 2, Italy) “Closed currents invariant by holomorphic foliations”.
- 05 - GT Géométrie et Analyse Complexe (Université Paris-Sud, France) “Champs de vecteurs méromorphes et surfaces complexes, Parties I & II”.
- 05 - Dynamical Systems Seminar (Université du Porto, Portugal) “On the structure of singularities of holomorphic flows in dimension 3”.
- 05 - Séminaire sur les Singularités des Feuilletages (Université de Toulouse III, France) “Sur la structure des singularités des flots holomorphes en dimension 3”.
- 05 - Séminaire Géométrie - Topologie - Dynamique (Université de Paris-Sud, France) “Sur les courants fermés invariants par les feuilletages holomorphes”.
- 05 - Séminaire de Systèmes Dynamiques (Université Paris VI, France) “Sur les courants fermés invariants par les feuilletages holomorphes”.

- 04 - Several Complex Variables Seminar (University of Michigan, US) “Dynamics of meromorphic vector fields and complex surfaces”.
- 04 - Seminar of Dynamics and Geometry (Harvard University, US) “Dynamics of meromorphic vector fields and complex surfaces”.
- 04 - Seminar of Lie Group Theory (Graduate Center, US) “non-linear representations of Burnside groups”.
- 03 - Complex Dynamics Seminar (IMPA, Brazil) “Meromorphic vector fields and applications to complex surfaces”.
- 03 - Joint Seminar in Symplectic Geometry and Dynamics Courant-SUNYSB (Stony Brook, US) “Neighborhoods of singular fibers in complex surfaces”.
- 03 - Colloquium of the Applied Math. Department (USP-SP, Brazil) “Singularities of ODES, Lie Groups and Algebraic Geometry”.
- 03 - Topology Seminar (UFF, Brazil) “Fibrations of genus 0, 1 and 2 on complex surfaces”.
- 02 - Special Colloquium of the Department of Mathematics (Purdue University, US) “Singularities of ODE’s: Geometry and Dynamics”.
- 02 - Topology Seminar (Stony Brook, US) “Circle diffeomorphisms”.
- 02 - Dynamical Systems Seminar (Stony Brook, US) “Complete polynomial vector fields”.
- 02 - Dynamics Learning Seminar (Stony Brook, US) “Complex differential equations and complex surfaces, Parts I & II”.
- 02 - Dynamical Systems Seminar (University of Toronto, Canada) “Complete polynomial vector fields on  $\mathbb{C}^2$ ”.
- 01 - Dynamical Systems Seminar (IMPA, Brazil) “Non-linear representations of groups”.
- 01 - Lie groups and Ergodic Theory Seminar (University of Yale, US) “The multiple ergodicity of non-discrete subgroups of  $\text{Diff}^\omega(S^1)$ ”.
- 01 - Joint Meeting Courant-IBM-Princeton-SUNY-Yale (Courant Institute, US) “Closure of groups of diffeomorphisms and applications”.
- 00 - Dynamical Systems Seminar (Stony Brook, US) “Stably chaotic rational vector fields on  $\mathbb{C}\mathbb{P}(n)$ ”.
- 99 - Séminaire de Géométrie Analytique (Université de Rennes 1, France) “Ergodicité et rigidité pour certains sousgroupes de  $\text{Diff}^\omega(S^1)$ ”.
- 99 - Séminaire de Géométrie (Université de Lille) “Rigidité mesurable de certains sousgroupes de  $\text{Diff}^\omega(S^1)$ ”.
- 99 - Topology Seminar (USP-SC, Brazil) “Confoliations”.

- 98 - Topology Days (UFF, Brazil) “Measurable rigidity for groups of diffeomorphisms of the circle”.
- 97 - Complex Dynamics Seminar (IMPA, Brazil), “Ergodicity and rigidity for certain subgroups of  $\text{Diff}^\omega(S^1)$ ”.
- 97 - Séminaire de Géométrie Complexe (Université Paris-Sud, France), “Ergodicité et rigidité pour certains sousgroupes de  $\text{Diff}^\omega(S^1)$ ”.
- 97 - Topology Seminar (University of Tokyo, Japan) “Rigidity for certain subgroups of  $\text{Diff}^\omega(S^1)$ ”.
- 97 - Complex Geometry Seminar Ryukoko University (Kyoto, Japon) “Curves of singularities of holomorphic vector fields on compact surfaces”.
- 96 - Complex Dynamics Seminar (IMPA, Brazil), 4 talks about singularities of holomorphic flows.

#### LANGUAGES.

Portuguese (native speaker), English and French (fluent).