Rodrigo G. Schaefer

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Research interests _____

Arnold Diffusion

CURRENT RESEARCH

• Arnold diffusion using scattering maps in an a priori unstable Hamiltonian system.

Celestial Mechanics

• N-body problem on surfaces

Education _____

Ph.D in Applied Mathematics

UPC (UNIVERSITAT POLITÈCNICA DE CATALUNYA)

Barcelona, Spain

Sep. 2014 - PRESENT

- · Advisor: Amadeu Delshams
- Got a CNPq Scholarship (Brazil).

M.S. in Mathematics Rio de Janeiro, Brazil

UFRJ (UNIVERSIDADE FEDERAL DO RIO DE JANEIRO)

Mar. 2012 - May 2014

- Master's thesis: A dinâmica de N corpos sobre superfícies : um exemplo para 2 corpos
- Advisor: Stefanella Boatto
- · Got a FAPERJ Scholarship which is given to the two best students in Master program Dept. of Math

B.S. in Mathematics Rio de Janeiro, Brazil

UFRJ (UNIVERSIDADE FEDERAL DO RIO DE JANEIRO)

Mar. 2008 - Jan 2012

Publications _____

Arnold diffusion for a complete family of perturbations

2017

DELSHAMS, A. AND SCHAEFER, R.G.

• Regular and Chaotic Dynamics

N-body dynamics on closed surfaces: the axioms of mechanics

2016

BOATTO, S., DRITSCHEL, D.G. AND SCHAEFER, R.G.

· Proceedings of the Royal Society of London A: Mathematical, Physical and Engineering Science

Preprint _

Arnold diffusion for a complete family of perturbations with two independent **harmonics**

2017

DELSHAMS, A. AND SCHAEFER, R.G.

ArXiv

Work experience _____

Temporary lecturer

Rio de Janeiro, Brazil

Mar. 2014 - Aug. 2014

UFRJ (FEDERAL UNIVERSITY OF RIO DE JANEIRO)

- Differential and Integral Calculus
- · Linear Algebra

Teaching assistant Rio de Janeiro, Brazil

UFRJ (FEDERAL UNIVERSITY OF RIO DE JANEIRO)

· Linear Algebra

Presentation

IV Congreso de Jóvenes Investigadores-Real Sociedad Matemática Española

Valencia, Spain

GLOBAL INSTABILITY IN HAMILTONIAN SYSTEMS

2017

2009 - 2011

Satellite Dynamics and Space Missions: Theory and Applications of Celestial Mechanics

San Martino al Cimino, Italy

ARNOLD DIFFUSION FOR SEVERAL EXAMPLES USING SCATTERING MAPS (POSTER)

2017

Llavefest: A Broad Pperpective on Finite and Infinite Dimensional Dynamicsl Systems

Barcelona, Spain

ARNOLD DIFFUSION FOR SEVERAL EXAMPLES USING SCATTERING MAPS (POSTER)

2017

14th Winter School of the Spanish Dance Network

Vigo, Spain

Arnold Diffusion for several examples using Scattering map (poster) $\,$

2017

Barcelona UB-UPC DSG Seminar

Barcelona, Spain

GLOBAL INSTABILITY IN HAMILTONIAN SYSTEMS AND SEVERAL SCATTERING MAPS

2016

13th Winter School of the Spanish Dance Network

Seville, Spain

Arnold dffusion using several combinations of Scattering maps (poster) $\,$

2016

14th Workshop on interactions between Dynamical Systems and PDE's.

Barcelona, Spain

ARNOLD DFFUSION USING SEVERAL COMBINATIONS OF SCATTERING MAPS (POSTER)

JuniorGesta
GLOBAL INSTABILITY IN HAMILTONIAN SYSTEMS

Barcelona, Spain

II BGSMath Junior Meeting

Barcelona, Spain

GLOBAL INSTABILITY IN HAMILTONIAN SYSTEMS

2016

CNMAC - Congresso Nacional de Matemática Aplicada e Computacional

Águas de Lindóia, Brazil

PROPAGAÇÃO DE UM IMPULSO ELÉTRICO EM UM AXÔNIO NERVOSO (POSTER)

2012

Research Group and Networks _____

Laboratory of Geometry and Dynamical Systems

Barcelona

Member

2017 - Present

• Group of researchers in Dynamical Systems and Symplectic geometry of Universitat Politècnica de Catalunya

UPC Dynamical System Group

Barcelona

2014 - Present

• Group of researchers in Dynamical Systems of Universitat Politècnica de Catalunya

DANCE Spain

MEMBER 2016-Present

· Network of spanish reseachers in Dynamical Systems

Other Courses

Introduction to Python Barcelona

CENTRE DE RECERCA MATAMÀTICA 2015

R Programming

JOHNS HOPKINS UNIVERSITY

Getting and Cleaning Data Coursera

JOHNS HOPKINS UNIVERSITY 2016

Editorial services

Catalan

Mathematical Reviews REVIEWER 2018

Languages _

Portuguese Native Fluent English Intermediate Spanish Advanced

Intermediate

Engelberg, Switzerland

Programming Languages _____

Winter School in Conservative Dynamics

Python Intermediate LaTeX Intermediate R Basic

Congresses and conferences attended

CSF Hamiltonian Systems Ascona, Switzerland

ETH Institute for Theoretical Studies 2017

Finite Dimensional Integrable Systems in Geometry and Mathematical Physics

Barcelona, Spain Universitat Politècnica de Catalunya 2017

15th Workshop on interactions between Dynamical Systems and PDE's

Barcelona, Spain Universitat Politècnica de Catalunya 2017

ETH INSTITUTE FOR THEORETICAL STUDIES 2017

DDays Salou, Spain

DANCE-NET 2016 13th Workshop on interactions between Dynamical Systems and PDE's

Universitat Politècnica de Catalunya

Barcelona, Spain

2015

2015

2014

Global Dynamics in Hamiltonian Systems

Universitat Politècnica de Catalunya

Vall de Núria, Spain

Winter School: Recents Trends in Nonlinear Sciences

Universidad de Valladolid and Dance-net

Valladolid, Spain 2015

Barcelona Mathematical Days.

SOCIETAT CATALANA DE MATEMÀTIQUES

Barcelona, Spain

Badajoz, Spain

DDAYS. Dance-net

2014

Hamiltonian Dynamics, Non-Autonomous System and Patterns in PDE's.

LOBACHEVSKY STATE UNIVERSITY OF NIZHNI NOVGOROD

Nizhny Novgorod, Russia

2014

Shilnikov Workshop.

LOBACHEVSKY STATE UNIVERSITY OF NIZHNI NOVGOROD

Nizhny Novgorod, Russia

2014