

Rodrigo G. Schaefer

PH.D STUDENT IN APPLIED MATH

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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

Barcelona, Spain

UPC (UNIVERSITAT POLITÈCNICA DE CATALUNYA)

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

Fixed-term Teacher

Rio de Janeiro, Brazil

UFRJ (FEDERAL UNIVERSITY OF RIO DE JANEIRO)

Mar. 2014 - Aug. 2014

- Differential and Integral Calculus
- Linear Algebra

Monitor Student

UFRJ (FEDERAL UNIVERSITY OF RIO DE JANEIRO)

- Linear Algebra

Rio de Janeiro, Brazil

2009 - 2011

Presentation

IV Congreso de Jóvenes Investigadores-Real Sociedad Matemática Española

GLOBAL INSTABILITY IN HAMILTONIAN SYSTEMS

Valencia, Spain

2017

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

ARNOLD DIFFUSION FOR SEVERAL EXAMPLES USING SCATTERING MAPS (POSTER)

San Martino al Cimino, Italy

2017

Llavefest: A Broad Perspective on Finite and Infinite Dimensional Dynamical Systems

ARNOLD DIFFUSION FOR SEVERAL EXAMPLES USING SCATTERING MAPS (POSTER)

Barcelona, Spain

2017

14th Winter School of the Spanish Dance Network

ARNOLD DIFFUSION FOR SEVERAL EXAMPLES USING SCATTERING MAP (POSTER)

Vigo, Spain

2017

Barcelona UB-UPC DSG Seminar

GLOBAL INSTABILITY IN HAMILTONIAN SYSTEMS AND SEVERAL SCATTERING MAPS

Barcelona, Spain

2016

13th Winter School of the Spanish Dance Network

ARNOLD DIFFUSION USING SEVERAL COMBINATIONS OF SCATTERING MAPS (POSTER)

Seville, Spain

2016

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

ARNOLD DIFFUSION USING SEVERAL COMBINATIONS OF SCATTERING MAPS (POSTER)

Barcelona, Spain

2016

JuniorGesta

GLOBAL INSTABILITY IN HAMILTONIAN SYSTEMS

Barcelona, Spain

2016

II BGSMath Junior Meeting

GLOBAL INSTABILITY IN HAMILTONIAN SYSTEMS

Barcelona, Spain

2016

CNMAC - Congresso Nacional de Matemática Aplicada e Computacional

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

Águas de Lindóia, Brazil

2012

Research Group and Networks

Laboratory of Geometry and Dynamical Systems

MEMBER

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

Barcelona

2017 - Present

UPC Dynamical System Group

MEMBER

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

Barcelona

2014 - Present

DANCE

MEMBER

- Network of spanish reseachers in Dynamical Systems

Spain

2016-Present

Others Courses

Introduction to Python

CENTRE DE RECERCA MATEMÀTICA

Barcelona

2015

R Programming

JOHNS HOPKINS UNIVERSITY

Coursera

2016

Getting and Cleaning Data

JOHNS HOPKINS UNIVERSITY

Coursera

2016

Languages

Portuguese

Native Fluent

English

Intermediate

Spanish

Advanced

Catalan

Intermediate

Programming Languages

Python

Intermediate

LaTeX

Intermediate

R

Basic

Congresses and conferences attended

Finite Dimensional Integrable Systems in Geometry and Mathematical Physics

UNIVERSITAT POLITÈCNICA DE CATALUNYA

Barcelona, Spain

2017

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

UNIVERSITAT POLITÈCNICA DE CATALUNYA

Barcelona, Spain

2017

Winter School in Conservative Dynamics

ETH INSTITUTE FOR THEORETICAL STUDIES

Engelberg, Switzerland

2017

DDays

DANCE-NET

Salou, Spain

2016

13th Workshop on interactions between Dynamical Systems and PDE's

UNIVERSITAT POLITÈCNICA DE CATALUNYA

Barcelona, Spain

2015

Global Dynamics in Hamiltonian Systems

UNIVERSITAT POLITÈCNICA DE CATALUNYA

Vall de Núria, Spain

2015

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

2014

DDAYS.

DANCE-NET

Badajoz, Spain

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