

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 with 3-1/2 degrees of freedom.

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 (FEDERAL UNIVERSITY OF 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 (FEDERAL UNIVERSITY OF RIO DE JANEIRO)

Mar. 2008 - Jan 2012

Publications and Preprints

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

Arnold diffusion for a complete family of perturbations

2017

DELSHAMS, A. AND SCHAEFER, R.G.

- Regular and Chaotic Dynamics

Work experience

Fixed-term Teacher

Rio de Janeiro, Brazil

UFRJ (FEDERAL UNIVERSITY OF RIO DE JANEIRO)

Mar. 2014 - Agu. 2014

- Differential and Integral Calculus
- Linear Algebra

Monitor Student

Rio de Janeiro, Brazil

UFRJ (FEDERAL UNIVERSITY OF RIO DE JANEIRO)

2009 - 2011

- Linear Algebra

Presentation

Global instability in Hamiltonian Systems and several Scattering maps

Barcelona, Spain

BARCELONA UB-UPC DSG SEMINAR

2016

Arnold diffusion using several combinations of Scattering maps (poster)

13TH WINTER SCHOOL OF THE SPANISH DANCE NETWORK

Seville, Spain

2016

Arnold diffusion using several combinations of Scattering maps (poster)

14TH WORKSHOP ON INTERACTIONS BETWEEN DYNAMICAL SYSTEMS AND PDE'S.

Barcelona, Spain

2016

Global instability in Hamiltonian Systems

JUNIORGESTA

Barcelona, Spain

2016

Global instability in Hamiltonian Systems

II BGSMATH JUNIOR MEETING

Barcelona, Spain

2016

Propagação de um impulso elétrico em um axônio nervoso (poster)

CNMAC - NATIONAL CONGRESS OF APPLIED AND COMPUTATIONAL MATHEMATICS

Águas de Lindóia, Brazil

2012

Research Group and Networks

UPC Dynamical System Group

MEMBER

Barcelona

2014 - Present

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

DANCE

MEMBER

Spain

2016

- Network of spanish reseachers in Dynamical Systems

Others Courses

Introduction to Python

CENTRE DE RECERCA MATAMÀTICA

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

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