

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

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

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

Arnold Diffusion for several examples using Scattering maps (poster)

LLAVEFEST: A BROAD PPERPECTIVE ON FINITE AND INFINITE DIMENSIONSL SYSTEMS

Barcelona, Spain

2017

Arnold Diffusion for several examples using Scattering map (poster)

14TH WINTER SCHOOL OF THE SPANISH DANCE NETWORK

Vigo, Spain

2017

Global instability in Hamiltonian Systems and several Scattering maps

BARCELONA UB-UPC DSG SEMINAR

Barcelona, Spain

2016

Arnold dffusion using several combinations of Scattering maps (poster)

13TH WINTER SCHOOL OF THE SPANISH DANCE NETWORK

Seville, Spain

2016

Arnold dffusion 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

Laboratory of Geometry and Dynamical Systems

MEMBER

Barcelona

2017 - Present

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

UPC Dynamical System Group

MEMBER

Barcelona

2014 - Present

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

DANCE

MEMBER

Spain

2016-Present

- 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

Languages

Portuguese	Native Fluent
English	Intermediate
Spanish	Advanced
Catalan	Intermediate

Programming Languages

Python	Intermediate
LaTeX	Intermediate
R	Basic

Congresses and conferences attended

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

Barcelona, Spain

UNIVERSITAT POLITÈCNICA DE CATALUNYA

2017

Winter School in Conservative Dynamics

Engelberg, Switzerland

ETH INSTITUTE FOR THEORETICAL STUDIES

2017

DDays

Salou, Spain

DANCE-NET

2016

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

Barcelona, Spain

UNIVERSITAT POLITÈCNICA DE CATALUNYA

2015

Global Dynamics in Hamiltonian Systems

Vall de Núria, Spain

UNIVERSITAT POLITÈCNICA DE CATALUNYA

2015

Winter School : Recents Trends in Nonlinear Sciences

Valladolid, Spain

UNIVERSIDAD DE VALLADOLID AND DANCE-NET

2015

Barcelona Mathematical Days.

Barcelona, Spain

SOCIETAT CATALANA DE MATEMÀTIQUES

2014

DDAYS.

Badajoz, Spain

DANCE-NET

2014

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

Nizhny Novgorod, Russia

LOBACHEVSKY STATE UNIVERSITY OF NIZHNI NOVGOROD

2014

Shilnikov Workshop.

Nizhny Novgorod, Russia

LOBACHEVSKY STATE UNIVERSITY OF NIZHNI NOVGOROD

2014