

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

UPC (Universitat Politècnica de Catalunya)

Barcelona, Spain

PH.D IN APPLIED MATHEMATICS

Sep. 2014 - PRESENT

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

UFRJ(Federal University of Rio de Janeiro)

Rio de Janeiro, Brazil

M.S. IN MATHEMATICS

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

UFRJ(Federal University of Rio de Janeiro)

Rio de Janeiro, Brazil

B.S. IN MATHEMATICS

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 (Preprint)

2016

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 - 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 using several combinations of Scattering maps (poster)

Seville, Spain

13TH WINTER SCHOOL OF THE SPANISH DANCE NETWORK

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)

CNMAT - NATIONAL CONGRESS OF APPLIED AND COMPUTATIONAL MATHEMATICS

Águas de Lindóia, Brazil

2012

Research Group and Networks

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

Languages

Portuguese

Native Fluent

English

Intermediate

Spanish

Advanced

Catalan

Intermediate

Programming Languages

Python

Intermediate

LaTeX

Intermediate