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

Global instability in Hamiltonian Systems and several Scattering maps   *Barcelona, Spain*

BARCELONA UB-UPC DSG SEMINAR   *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

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

Languages

Portuguese	Native Fluent
English	Intermediate
Spanish	Advanced
Catalan	Intermediate

Programming Languages

Python	Intermediate
LaTeX	Intermediate

Congresses and conferences attended

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. *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*