Rodrigo G. Schaefer

Ph.D STUDENT IN APPLIED MATHEMATICS

Av Diagonal. 647 ETSEIB, 08028, Barcelona, Spain

□ (+34) 673 84 58 11 | Society of the control of t

Research interests _____

Arnold Diffusion

CURRENT RESEARCH

• Arnold diffusion in an a priori unstable Hamiltonian system.

Celestial Mechanics

• N-body problem on surfaces

Education _____

Ph.D in Applied Mathematics

Universitat Politècnica de Catalunya

Barcelona, Spain

TALUNYA Sep. 2014 - PRESENT

- Title: Global Instability in Hamiltonian SystemsAdvisor: Amadeu Delshams
- Got a CNPq Scholarship (Brazil).

M.S. in Mathematics Rio de Janeiro, Brazil

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

 ${\sf DELSHAMS, A. \ AND \ SCHAEFER, R.G.}$

• 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.

• To appear in Discrete and Continuous Dynamical Systems

Work experience _____

Temporary lecturer

Rio de Janeiro, Brazil

Mar. 2014 - Aug. 2014

Universidade Federal do Rio de Janeiro

• Differential and Integral Calculus

- Linear Algebra
- July 5, 2018 Rodrigo Schaefer · Résumé

Teaching assistant

Universidade Federal do Rio de Janeiro

· Linear Algebra

Rio de Janeiro, Brazil

Presentation

INVITED TALKS

Geometry, Dynamics, Integrable Systems

Moscow, Russia

SCATTERING MAPS AND GLOBAL INSTABILITY IN HAMILTONIAN SYSTEMS

2018

IV Congreso de Jóvenes Investigadores-Real Sociedad Matemática Española

Valencia, Spain

GLOBAL INSTABILITY IN HAMILTONIAN SYSTEMS

2017

JuniorGestaBarcelona, Spain

GLOBAL INSTABILITY IN HAMILTONIAN SYSTEMS

2016

OTHER PRESENTATIONS

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

San Martino al Cimino, Italy

ARNOLD DIFFUSION FOR SEVERAL EXAMPLES USING SCATTERING MAPS (POSTER)

2017

Llavefest: A Broad Pperpective on Finite and Infinite Dimensional Dynamicsl Systems

Barcelona, Spain

ARNOLD DIFFUSION FOR SEVERAL EXAMPLES USING SCATTERING MAPS (POSTER)

2017

14th Winter School of the Spanish Dance Network

Vigo, Spain

ARNOLD DIFFUSION FOR SEVERAL EXAMPLES USING SCATTERING MAP (POSTER)

2017

Barcelona UB-UPC DSG Seminar

Barcelona, Spain

GLOBAL INSTABILITY IN HAMILTONIAN SYSTEMS AND SEVERAL SCATTERING MAPS

2016

13th Winter School of the Spanish Dance Network

Seville, Spain

ARNOLD DFFUSION USING SEVERAL COMBINATIONS OF SCATTERING MAPS (POSTER)

2016

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

Barcelona, Spain

ARNOLD DFFUSION USING SEVERAL COMBINATIONS OF SCATTERING MAPS (POSTER)

2016

II BGSMath Junior Meeting

Barcelona, Spain

GLOBAL INSTABILITY IN HAMILTONIAN SYSTEMS

2016

CNMAC - Congresso Nacional de Matemática Aplicada e Computacional

Águas de Lindóia, Brazil

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

2012

Research Group and Networks	
Laboratory of Geometry and Dynamical Systems MEMBER	Barcelona 2017 - Present
• Group of researchers in Dynamical Systems and Symplectic geometry of Universitat Politècnica de Catalunya	
UPC Dynamical System Group	Barcelona
 MEMBER Group of researchers in Dynamical Systems of Universitat Politècnica de Catalunya 	2014 - Present
DANCE	Spain
• Network of spanish reseachers in Dynamical Systems	2016-Present
Participation in funded projects	
Sistemes dinàmics de la UPC - 2017SGR1049	Barcelona
Мемвек • Funded by Catalan Science Department / Leading researcher: Tere Martinez-Seara	2017 - Present
Dinámica Asociada a Conexiones entre Objetos Invariantes con Aplicaciones a	
Neurociencia y Astrodinámica	Barcelona
МЕМВЕR • Funded by Ministerio de Economía y Competitividad (Spain) / Leading researcher: Tere Martinez-Seara	2016 - 2018
Sistemes dinàmics de la UPC - 2014SGR504	Barcelona
MEMBER	2015-2016
Funded by Catalan Science Department / Leading researcher: Tere Martinez-Seara	
Dinámica Asociada a Conexiones entre Objetos Invariantes, Aplicaciones a Astrodinámica, Neurociencia y Otros Campos	Barcelona
МЕМВЕR • Funded by Ministerio de Economía y Competitividad (Spain) / Leading researcher: Amadeu Delshams	2014 - 2015
Other Courses	
Introduction to Python Centre de Recerca Matamàtica	Barcelona 2015
R Programming	Coursera
JOHNS HOPKINS UNIVERSITY	2016
Getting and Cleaning Data	Coursera
Johns Hopkins University	2016
Languages	
Portuguese	Native Fluent
English Spanish	Intermediate Advanced
Catalan	Intermediate

Programming Languages ____

Python Intermediate Intermediate LaTeX Basic

References

Amadeu Delshams

Universitat Politècnica de Catalunya amadeu.delshams@upc.edu

Stefanella Boatto

Universidade Federal do Rio de Janeiro boattostefanella@gmail.com

Marcel Guardia

Universitat Politècnica de Catalunya marcel.guardia@upc.edu

Eva Miranda

Universitat Politècnica de Catalunya eva.miranda@upc.edu

Congresses and conferences attended _____

16th Workshop on interactions between Dynamical Systems and PDE's

CENTRE DE RECERCA MATEMÀTICA 2018

Bellaterra, Spain

Venice, Italy

Moscow, Russia

2018

2017

Valencia, Spain

Bellaterra, Spain

Bellaterra, Spain

San Martin al Cimino, Italy

Perspectives in Hamiltonian Systems

Università degli Studi di Padova 2018

Geometry, Dynamics, Integrable systems

2018

MOSCOW INSTITUTE OF PHYSICS AND TECHNOLOGY

15th Winter School: Recents Trends in Nonlinear Sciences Logroño, Spain

DANCE-NET

CSF Hamiltonian Systems Ascona, Switzerland

ETH INSTITUTE FOR THEORETICAL STUDIES

IV Congreso de Jóvenes Investigadores-Real Sociedad Matemática Española

REAL SOCIEDAD MATEMÁTICA ESPAÑOLA 2017

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

SOCIETÀ ITALIANA DI MECANICA CELESTE E ASTRODINAMICA 2017

Finite Dimensional Integrable Systems in Geometry and Mathematical Physics

CENTRE DE RECERCA MATEMÀTICA 2017

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

CENTRE DE RECERCA MATEMÀTICA 2017

DynamicalSystems	Barcelona, Spain
Centre de Recerca Matemàtica	2017
Winter School in Conservative Dynamics	Engelberg, Switzerland
ETH Institute for Theoretical Studies	2017
13th Winter School: Recents Trends in Nonlinear Sciences	Vigo, Spain
Dance-net	vigo, spain 2017
DDays	Salou Spain
Dance-net	Salou, Spain 2016
DANCE NET	2010
14th Waylish on an intersections between Dynamical Systems and BDF2s	Danielana Cania
14th Workshop on interactions between Dynamical Systems and PDE's Universitat Politècnica de Catalunya	Barcelona, Spain 2016
UNIVERSITAT FOLTTECNICA DE CATALUNYA	2010
II BGSMAth Junior Meeting	Barcelona, Spain
BGSMATH	2016
GestaJunior	Barcelona, Spain
Universitat Politècnica de Catalunya	2016
13th Winter School: Recents Trends in Nonlinear Sciences	Seville, Spain
DANCE-NET	2016
Global Dynamics in Hamiltonian Systems	Vall de Núria, Spain
Universitat Politècnica de Catalunya	2015
13th Workshop on interactions between Dynamical Systems and PDE's	Barcelona, Spain
Universitat Politècnica de Catalunya	2015
12th Winter School: Recents Trends in Nonlinear Sciences	Valladolid, Spain
Universidad de Valladolid and Dance-net	2015
Shilnikov Workshop.	Nizhny Novgorod, Russia
Lobachevsky State University of Nizhni Novgorod	2014
Hamiltonian Dynamics, Non-Autonomous System and Patterns in PDE's.	Nizhny Novgorod, Russia
Lobachevsky State University of Nizhni Novgorod	2014
7th DDAYS	Badajoz, Spain
DANCE-NET CONTRACTOR C	2014

Llavefest: A Broad Perspective on Finite and Infinite Dimensional

Barcelona Mathematical Days

SOCIETAT CATALANA DE MATEMÀTIQUES

SBMAC

Barcelona, Spain

2014

CNMAC- Congresso Nacional de Matemática Aplicada e Computacional

Águas de Lindóia, Brasil

2012