

Leandro Martín Alonso Ruiz

CONTACT INFORMATION	Department of Physics University of Buenos Aires Dynamical Systems Lab Pabellón I, Ciudad Universitaria Ciudad Autónoma de Buenos Aires, ARG	<i>Cell:</i> (054)011- 15-6183-7466 <i>E-mail:</i> leandro@df.uba.ar <i>WWW:</i> www.lsd.df.uba.ar
CITIZENSHIP	Argentine - Spanish	
DATE OF BIRTH	January 20 th 1983	
RESEARCH INTERESTS	Non Linear Dynamics applications to biophysics, Neuroscience, Complex Systems	
EDUCATION	University of Buenos Aires , Ciudad Autónoma de Buenos Aires, ARG Ph.D., Physics (IN COURSE) <ul style="list-style-type: none">• Thesis Topic: <i>Physiological instructions used in Birdsong production</i>• Adviser: Professor Gabriel B. Mindlin• Area of Study: Nonlinear Dynamics, Biophysics M.S., Physics (2003 - 2007) <ul style="list-style-type: none">• Thesis Topic: <i>Physiological instructions used in Birdsong production</i>• Adviser: Professor Gabriel B. Mindlin• Area of Study: Nonlinear Dynamics, Biophysics	
FUNDING	CONICET (National Scientific Research Council) <ul style="list-style-type: none">• Graduate Research Scholarship, type I (2008-2011)• Graduate Research Scholarship, type II (2011-2013)	
PUBLICATIONS	<i>Average dynamics of a driven set of globally coupled excitable units</i> Leandro M. Alonso and Gabriel B. Mindlin. Chaos 21, 023102 (2011) <i>Dynamical origin of complex motor patterns</i> Leandro M. Alonso, Jorge A. Allende and Gabriel B. Mindlin. European Journal of Physics (accepted for publication) <i>Low-dimensional dynamical model for the diversity of pressure patterns used in canary song</i> Leandro M. Alonso, Jorge A. Allende, F. Goller and Gabriel B. Mindlin. Phys. Rev. E 79, 041929 (2009) <i>The dynamical origin of physiological instructions used in birdsong production</i> EM. Arneodo, LM. Alonso, JA. Allende, GB. Mindlin , PRANAMA 2008	
SCIENTIFIC MEETINGS AND SCHOOLS	School and Conference on Computational Methods in Dynamics <ul style="list-style-type: none">• Location: Trieste, Italy, June 2011.• Organized and Sponsored by: International Center of Theoretical Physics (ICTP) and University of Maryland• Directors: John Guckenheimer, Carles Simó, Warwick Tucker. Hands on Research in Complex Systems.	

- Location: Sao Paulo, Brazil, June 2009.
- Organized and Sponsored by: International Center of Theoretical Physics (ICTP) and University of Maryland
- Director: Harry Sweeney.
- Contribution: Short talk and poster session.

I Latin American Complex Systems Summer School,

- Location: San Carlos de Bariloche, Argentina, December (2008)
- Organized and Sponsored by: Santa Fe Institute
- Contribution: Poster Session

XII Neuroscience workshop.

- Location: Huerta Grande Cordoba 2008. Type of contribution: Poster session.
- Sponsored by: CONICET
- Contribution: Poster Session

TEACHING
EXPERIENCE

University of Buenos Aires, Ciudad Autónoma de Buenos Aires, ARG

Teaching Assistant

March 2005 to date

- 1st Sem. 2011: Teaching Assistant .FCEN, UBA. Physics Department.
Non Linear Dynamics.
- 1st Sem. 2010: Teaching Assistant .FCEN, UBA. Physics Department.
Non Linear Dynamics.
- 2nd Sem. 2009: Teaching Assistant .FCEN, UBA. Physics Department.
Physics I, for Biology students.
- 2nd Sem. 2008: Teaching Assistant .FCEN, UBA. Physics Department.
Physics I, for Biology students.
- 1st Sem. 2008: Teaching Assistant .FCEN, UBA. Physics Department.
Non Linear Dynamics.
- 1st Sem. 2007: Teaching Assistant .FCEN, UBA. Physics Department.
Physics I Labs, for Biology students.
- 1st Sem. 2007: Teaching Assistant .FCEN, UBA. Physics Department.
Non Linear Dynamics.
- 1st Sem. 2007: Teaching Assistant .CBC, UBA. Mathematics Department.
Mathematics.
- 2nd Sem. 2006: Teaching Assistant .FCEN, UBA. Physics Department.
Classical Mechanics.
- 2nd Sem. 2006: Teaching Assistant. CBC, UBA. Mathematics Department.
Mathematics.
- 1st Sem. 2006: Teaching Assistant. FCEN, UBA. Physics Department.
Classical Mechanics.
- 1st Sem. 2006: Teaching Assistant. CBC, UBA. Mathematics Department.
Mathematical Analysis for Economics Students.
- 2nd Sem. 2005: Teaching Assistant. CBC, UBA. Mathematics Department.
Mathematical Analysis for Economics Students.
- 1st Sem. 2005: Teaching Assistant. CBC, UBA. Mathematics Department.
Mathematical Analysis for Economics Students.

PROFESSIONAL
EXPERIENCE

IDIBAPS (Institut d'Investigacions Biomèdiques August Pi i Sunyer)
Sanchez-Vivez Lab, Barcelona, Spain

Setup of comportamental and electrophysiological experiments
January 2009 to February 2009

- Added features to a previously developed MATLAB software controlling online behavioural experiments
- Designed MATLAB software to analyze the experimental data.

COMPUTER SKILLS

Programming: C, C++, Java, JavaScript, html, LINUX shell scripting. Basic, Fortran

MATLAB experience: linear algebra, Fourier transforms, nonlinear numerical methods, polynomials, statistics, visualization, PsychoToolbox, Matcont

Computer Applications: $\text{T}_{\text{E}}\text{X}$ ($\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$, $\text{BIB}\text{T}_{\text{E}}\text{X}$), gnuplot, most common productivity packages (for Windows and Linux platforms).

Operating Systems: Microsoft Windows family, Linux.

SELECTED AWARDS

National Physics Olimpiad (Córdoba, Arg. 2001), 2nd prize

State Mathematical Olimpiad (Neuquén, Arg. 2001), 1st place

REFERENCES

Available upon request