Evangelia Panagakou

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EDUCATION

DEPARTMENT OF PHYSICS, UNIVERSITY OF ATHENS

PhD in Physics
Dec 2010 - Expected Jan 2015 | Athens, Greece
Cum. GPA: N/A
Thesis: Synchronization Phenomena in Lattices of Coupled Oscillators

DEPARTMENT OF MATHEMATICS AND STATISTICS, UNIVERSITY OF MASSACHUSETTS

MSc in Applied Mathematics
Sep 2006 - May 2008 | Amherst, USA
Projects: An investigation of Bose-Einstein Condensates and Modelling Tumor Growth

DEPARTMENT OF PHYSICS, UNIVERSITY OF ATHENS

BSc in Physics
Sep 2001 - Sep 2007 | Athens, Greece
Thesis: Bose-Einstein Condensates: Symmetry Breaking in Symmetric and Asymmetric Double Well Potentials

RESEARCH

THE OPEN UNIVERSITY, UK | Visiting Research Fellow

Jul 2014 - Jun 2017
Working with Prof. J. Johnson and the E'toile Team.

NATIONAL CENTER FOR SCIENTIFIC RESEARCH ``DEMOKRITOS'' | PhD Student

Dec 2010 - Present | Athens, Greece
Working with Dr. A. Provata, Prof. F. Diakonos and D. J. Frantzeskakis on Synchronization Phenomena in Lattices of Coupled Oscillators.

Working with Dr. A. Provata and Dr. J. Hizanidis on Multi-Chimera States in Populations Dynamics Networks with Hierarchical and Fractal Connectivity Matrix.

Worked with Dr. A. Provata on Abstract Phase-space Networks Describing Reactive Dynamics.

Worked with Dr. A. Provata ans Dr. G. C. Boulougouris on Effective Mean Field Approach to Kinetic Monte Carlo Simulations in Limit Cycle Dynamics with Reactive and Diffusive Rewiring.

ATHENS INFORMATION TECHNOLOGY CENTER | Master student

Feb 2009 - Jun 2009 | Athens, Greece
Worked with Prof. C. Boukis on an independent study on the predictability of epileptic seizures from EEG signals.

DEPARTMENT OF MATHEMATICS AND STATISTICS, UNIVERSITY OF MASSACHUSETTS | Master student

September 2006 - May 2008 | Amherst, MA, USA
Worked with Prof. N. Whitaker on a research project on mathematical modeling of tumor growth.

Worked with Prof. P. G. Kevrekidis on a research project on Bose-Einstein Condensation.

NATIONAL CENTER FOR SCIENTIFIC RESEARCH ``DEMOKRITOS'' | Undergraduate Student

Jun 2003 – Aug 2003 | Athens, Greece
Joined a research team and worked on the processing of experimental data coming from the high energy physics experiments that were being carried out in CERN.

WORK AND TEACHING EXPERIENCE

Sep 2009	Jun 2013	Teacher at Tutoring Center for Secondary and Higher Education *E. Stogiannis* for secondary school, high school and undergraduate students
Sep 2007	May 2008	Computer Administrator (RCF Graduate RAs) of the Graduate Computer Lab, University of Massachusetts (Amherst, USA)
Feb 2007	May 2008	Teaching Assistant, Department of Mathematics and Statistics, University of Massachusetts (Amherst, USA)
Sep 2006	Jan 2007	Research Assistant, Department of Mathematics and Statistics, University of Massachusetts (Amherst, USA)
Oct 2005	Jan 2006	Teaching Assistant, Department of Physics, University of Athens (Athens, Greece)
Sep 2001	Jun 2006	Private tutor to Secondary and High School students. Subjects: mathematics and physics
Sep 2002	Jun 2006	Private tutor to Undergraduate students of the Department of Physics (University of Athens). Subjects: electronics and mechanics

ACTIVITIES

Oct 2013	Present	Member of the Advisory Board and Chair of the *Young Researchers Network on Complex Systems*
Aug 2012	Present	Member of the Council of the ``Complex Systems Society''
Aug 2012	Present	Member of the Education Committee of the ``Complex Systems Society''
2012	Present	Member of the Designing Team of www.yrncs.com
2011	Present	Designer of http://limnos.chem.demokritos.gr
2011	Present	Member of the Executive Committee of the of the Athletic Chess Union "Aigli Papagou", Athens, Greece
Jan 1995	Present	Member of the Athletic Chess Union "Aigli Papagou", Athens, Greece
Feb 2014	Jul 2014	Member of the Organizing Committee for the ``4th PhD Summer School Conference on Mathematical Modelling of Complex Systems''
Sep 2013	Sep 2014	Member of the Organizing Committee of the Workshop of the *Young Researchers Network on Complex Systems*
Sep 2013	Sep 2014	Member of the Organizing Committee of the Satellite of the *Young Researchers Network on Complex Systems* at ECCS'14
Sep 2012	Sep 2013	Member of the Organizing Committee of the Satellite of the *Young Researchers Network on Complex Systems* at ECCS'13
Sep 2011	Sep 2012	Member of the Organizing Committee of the Satellite of the *Young Researchers Network on Complex Systems* at ECCS'12
Jan 1994	Dec 1995	Member of the Junior National Greek Chess Team
Jan 1990	Dec 1995	Member of the Athletic Chess Union of Papagou, A & B National Categories (Athens, Greece)

SCHOOLS & WORKSHOPS

2014	Young Researchers on Complex Systems Workshop (Lucca, Italy)
2014	ECCS WarmUp School (Lucca, Italy)
2014	Fourth PhD summer School – Conference on ``Mathematical Modelling of Complex Systems'' (Athens, Greece)
2013	Third European PhD School on ``Mathematical Modelling of Complex Systems'' (Crete, Greece)
2013	Joint CRM-Imperial College School and Workshop in Complex Systems (Barcelona, Spain)
2012	Second European Ph.D. School on ``Mathematical Modelling of Complex Systems'' (Pescara, Italy)
2011	First European Ph.D. School on ``Mathematical Modelling of Complex Systems'' (Patras, Greece)
2011	Summer School on Environment--Energy--Security at the National Center for Scientific Research ``Demokritos'' (Athens, Greece)
2007	Summer School on Bose-Einstein Condensates, organized by the Onassis Foundation and the Foundation for Research and Technology - Hellas (FORTH) (Crete, Greece)
2005	Summer School on ``Last Evolutions in Research and Technology'' at the National Center for Scientific Research ``Demokritos'' (Athens, Greece)

CONTINUING EDUCATION

Sep 2008	Jun 2009	Attended and Passed all the courses of the M.S. in Information and Telecommunications Technologies, Athens Information Technology, Athens, Greece
Sep 2010	Jan 2011	Course: Special Topics in Complex Systems, Complex Systems and Applications Group, National Center for Scientific Research ``Demokritos'', Athens, Greece
Jan 2011	Present	Seminar Series on Complex Systems, Complex Systems and Applications Group, National Center for Scientific Research ``Demokritos'', Athens, Greece

ACTIONS & PROGRAMS

2015	2019	Maria Sklodowska-Curie Action Title: Development and Implementation of new generation of Pseudo Random Number Generators based on Kolmogorov-Anosov K-systems | Coordinators: Dr. G.K. Savvidy et al.
2013	2014	Exchange Program IKYDA Supported by the Greek State Scholarship Foundation (IKY) and the German Academic Exchange Service (DAAD) Project title: Chimera states in dynamical networks of nonlinear systems Coordinators: Dr. A. Provata & Dr. J. Hizanidis (Greece), Dr. P. Hövel & Prof. Dr. E. Schöll (Germany)

RESEARCH VISITS

Aug 2014		Visit to the Centre for Complexity and Design, Open University, UK
Oct 2013	Nov 2013	Visit to the lab BCCN - Nachwuchsgruppe: Nonlinear Dynamics and Control in Neuroscience, Technical University of Berlin, Germany

RESEARCH INTERESTS

Synchronization Phenomena
Reaction-diffusion Systems
Fractals and Pattern Formation
Complex Systems
Network Science
Neuroscience
Online and Offline Education
Learning Theory
Human Behavior
Epidemics

TECHNICAL SKILLS AND COMPETENCES

Mathematical Modeling
Kinetic Monte Carlo Simulations
Numerical Computing
Numerical Analysis
Fractal and Pattern Formation
Nonlinear Dynamics
Network Analysis

PUBLICATIONS

2014 A. Provata, E. Panagakou, ``Abstract Phase-space Networks Describing Reactive Dynamics'', Physica A (Volume 414, 15)

2013 E.Panagakou, G.C. Boulougouris, A. Provata,`` Effective Mean Field Approach to Kinetic Monte Carlo Simulations in Limit Cycle Dynamics with Reactive and Diffusive Rewiring'', Eur. Phys. J. B (86, 277)

WORKING PAPERS

2014 E. Panagakou, J. Hizanidis, A. Provata, ``Multi-Chimera States in Population Dynamics Networks with Hierarchical and Fractal Connectivity Matrix'' (tentative title – under preparation)

CONFERENCES

2014 European Conference on Complex Systems (Lucca, Italy)
2013 European Conference on Complex Systems (Barcelona, Spain)
2012 European Conference on Complex Systems (Brussels, Belgium)
2011 European Conference on Complex Systems (Wien, Austria)

TALKS

2014	``Chimera States in Reactive Dynamical Systems'', European Conference on Complex Systems 2014 (Lucca, Italy)
2014	``Synchronization Phenomena in Lattices of Coupled Oscillators'', Institute of Nanoscience and Nanotechnology, National Center for Scientific Research (Athens, Greece)
2013	``A Lattice Limit Cycle Model: Effective Mean Field and Kinetic Monte Carlo Simulations'', BCCN-Nachwuchsgruppe: Nonlinear Dynamics and Control in Neuroscience, Technical University of (Berlin, Germany)
2013	``Long Distance Reactive Dynamics: Effective Mean Field Theory and Kinetic Monte Carlo Simulations'', European Conference on Complex Systems 2013 (Barcelona, Spain)
2013	``Effective Mean Field Approach to Kinetic Monte Carlo Simulations in Limit Cycle Dynamics with Reactive and Diffusive Rewiring'', Joint CRM-Imperial College School and Workshop in Complex Systems (Barcelona, Spain)
2013	``An Extended Lattice Limit Cycle Model & an Effective Mean Field Approach'', Institute of Nanoscience and Nanotechnology, National Center for Scientific Research (Athens, Greece)
2012	``Kinetic Monte Carlo Simulations of the Lattice Limit Cycle Model with Long Distance Interactions'', Satellite ``Young Researchers Network on Complex Systems Meeting'' at European Conference on Complex Systems 2012 (Brussels, Belgium)
2011	``Limit Cycle Reaction - Diffusion Dynamics'', Institute of Nanoscience and Nanotechnology, National Center for Scientific Research (Athens, Greece)
2011	``Kinetic Monte Carlo Simulations in Reaction - Diffusion Systems'', Institute of Nanoscience and Nanotechnology, National Center for Scientific Research (Athens, Greece)
2008	``Modelling Tumor Growth'' Department of Mathematics and Statistics, University of Massachusetts (Amherst, USA)

POSTERS

ECCS'12, Brussels	E. Panagakou, G. C. Boulougouris, A. Provata ``Kinetic Monte Carlo Simulations of the Lattice Limit Cycle Model with Long Distance Interactions''
ECCS'11, Vienna	E. Panagakou, N. Kouvaris, A. Provata | ``Complex Reactive Dynamics''

COMPUTATIONAL SKILLS

Programming Languages	Fortran, C, Pascal, Python-learning now, Assembly PDP-11, ARM and LaTeX
Scientific Software Packages	Mathematica, MATLAB
Software Packages	Microsoft Office, Open Office, Adobe Photoshop, PSpice, ADS
Operating Systems	GNU/Linux, Windows

AWARDS

2010	Present	PhD Scholarship by the National Center of Scientific Research ``Demokritos''
2014		Scholarship to attend ECCS'14 by 'toile Project - Open University
2012		Scholarship to attend ECCS'12 by the Complex Systems Society
2011		Scholarship to attend ECCS'11 by ASSYST-FuturICT (EU-funded Projects)
2008	2009	Scholarship for the MSc in Information and Telecommunications Technologies at Athens Information Technology Center (Athens, Greece)
2007		Alexander S. Onassis Public Benefit Foundation Scholarship for seminar attendance
1999		Prestigious distinction and commendation in the 59th nationwide Mathematics Competition ``Euclides'', by the Greek Mathematical Society.
1995	2001	Honorships by the Ministry of Education, the Greek Army and the Mental Center of Papagou for being an excellent student and ranking 1^{st} in my school
1990	1995	19 medals and 11 cups for winning individual and club nationwide chess championships

LANGUAGE SKILLS

Greek	Native Speaker
English	Fluent - Michigan Proficiency (ECPE), Advanced Proficiency Certificate in English (Oxford University)
French	Good - DELF 1 (A1, A2, A3, A4)
Italian	Beginner

Disclosure: I authorize the treatment of my data according to current legal regulations.