

ASTERO PROVATA

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WORK ADDRESS

Institute of Nanoscience and Nanotechnology
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WWW: <https://inn.demokritos.gr/project/statistical-mechanics-and-dynamical-complex-systems/>

GENERAL

Born in : Corfu, Greece

Date of Birth : 01 October 1963

Nationality : Greek

Personal : Married, 2 children

EDUCATION

- Bachelor Degree in Physics July 1985
Physics Department, University of Athens, Greece
- Master of Science in Physics January 1989
Physics Department, Boston University, USA
- PhD in Physics July 1991
Physics Department, Boston University, USA

Languages: Greek – English - French

RESEARCH TOPICS:

Statistical Mechanics, Non-linear Dynamics, Computational Neuroscience, Coupled Oscillator Networks, Synchronization with applications in Neuroscience, Complex Networks, Fractals, Bioinformatics, Genome Dynamics and Reaction-Diffusion Dynamics.

EMPLOYMENT

- 1985 – 1991: Research & Teaching Assistant
Boston University, Boston, USA
- 1991 – 1994: Postdoctoral Position / Chercheur
Université Libre de Bruxelles, Brussels, Belgium.
- 1995 January - June: Visiting Researcher
University of Wageningen, Wageningen, The Netherlands
- 1995 – 1998: Researcher C-level, NCSR “Demokritos”, Athens, Greece.
- 1996 February – April: JSPS Research Fellow
Tohoku University, Sendai, Japan.
- 1999 - 2003 : Senior Researcher, NCSR “Demokritos”, Athens, Greece.
- 2010 May-October: Visiting Researcher, Mathematics Department,
Queen Mary University of London, UK
- 2011 May-October: Visiting Professor, Mathematics Department,
Queen Mary University of London, UK
- 2012 May-October: Visiting Professor, Service de Chimie-Physique,
Université Libre de Bruxelles, Brussels, Belgium
- 2013 June-July: Visiting Professor, Service de Chimie-Physique,
Université Libre de Bruxelles, Brussels, Belgium
- 2003 - ... : Research Director, NCSR “Demokritos”, Athens, Greece.

TEACHING:

at National Technical University of Athens: MSc Level Courses in a) Complex Networks, b) Nonlinear Dynamical Systems and c) Special Topics in Complex Systems

at NCSR Demokritos: Graduate Level Courses in a) Applied Mathematics, b) Statistical Analysis and c) Special Topics in Physical Chemistry (includes Diffusion, Percolation, Aggregation, Fractals and Non-linear Chemical Dynamics)

at Boston University: Laboratory Classes in Mechanics and Electromagnetism
Discussion Sections in Electromagnetism, Statistical Physics
and Mathematical Methods for Physicists

Has Supervised the Master thesis of 20 graduate students and
the PhD theses of 9 graduate students and
the postdoctoral studies of 12 researchers

OTHER

Has served as : The Principle Organiser in 7 International Conferences
In the Scientific Committee of 10 Greek Conferences
As co-organiser in 3 Greek Conference

Member of: Greek Physical Society, Belgian Physical Society
European Physical Society (Statistical and Non-linear Physics Division)

Has obtained (as Principle Investigator or Co-investigator)
8 Greek and 9 International Research Grants

Has served as: Vice-Chairman of Institute of Physical Chemistry, NCSR
“Demokritos” during the period 2007-2011 and in many other
administration and scientific committees.

Has served as Referee in the following journals:

Physical Review , Physical Review Letters , Fractals, Journal of Physics A: Mathematical and General, Thin Solid Films, Physics Letters A, Bifurcations and Chaos, Physica A, Bioinformatics, Proceedings of the Royal Society of London, Europhysics Letters, Applied Physics Letters, Chaos Solitons and Fractals, etc

PUBLICATIONS – OUTPUT

- 1) PhD Thesis: **Anomalous Diffusion and Growth due to Long-Range Correlations.**
by Astero Provata, Boston University, 1992.
- 2) Is author (or co-author) in 110 publications in international peer-reviewed journals
- 3) Is author (or co-author) in 25 publications in conference proceedings
- 4) Has delivered ~160 invited talks & oral presentations in Conferences, Universities and Research Institutes.
- 5) Has served as Editor/CoEditor in 4 collected volumes.