



Andreea Munteanu

Place and date of birth Bucharest, August 4, 1976.
Nationality Romanian
Country of residence Spain
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Current position

Feb 2007 - **Contracted Postdoctoral Researcher**
Parc Recerca Biomèdica Barcelona, Universitat Pompeu Fabra
GRIB-Grup Sistemes Complexos, Dr Aiguader 88, 08003, Barcelona

Education

Dec 2003 **PhD in Astrophysics**
Universitat Politècnica de Catalunya, Barcelona, Spain

Feb 2000 **MSc in Atomic, Molecular Physics and Astrophysics**
Universitatea Bucuresti, Bucharest, Romania

Jul 1998 **BSc in Physics**
Universitatea Bucuresti, Bucharest, Romania

Scholarships & Projects

Feb 2007 - **Participation as Contracted Postdoctoral Researcher to:**
EU-funded SYNLET Project (FET - 6th Framework)

Nov 20 – Dec 20, 2007 **Granted Researcher by Catalan Research Foundation AGAUR[#]**
University of Leipzig, Germany

Jan 29 – Feb 29, 2008

Mar 2005 - Feb 2007 **Participation as Contracted Postdoctoral Researcher to:**
EU-funded PACET Project (FET - 6th Framework)

Mar 2004 - Sept 2004 **Participation as Granted Postdoctoral Student to:**
EU-funded PACET Project (FET - 6th Framework)

Oct 2003 - Dec 2003 **Granted Doctoral Student by**
Universitat Politècnica de Catalunya, Barcelona, Spain

Oct 2000 - Sept 2003 **AECI* Scholarship for Doctoral Studies**
Universitat Politècnica de Catalunya, Barcelona, Spain

Oct 1998 - July 1999 **Erasmus Scholaship for Master Studies**
Università degli Studi di Torino, Italy

Complementary education

July 15 – 20, 2007 **Complex systems and Networks: Transylvanian Summer School Series**
Sovata, Romania

Feb 27 – Mar 2, 2007 **Winter School on Systems Biology for Medical Applications**
Puerto de la Cruz, Tenerife, Spain

[#] Agència de Gestió d'Ajuts Universitaris i de Recerca

^{*} Agencia Española de Cooperación Internacional

- June 4 - July 1, 2006 **Complex Systems Summer School**
Santa Fe Institute, New Mexico, USA
- Feb 2 - 6, 2004 **Winter School on Recent trends in nonlinear dynamics**
Palma de Mallorca, Spain
- Sept 8 - 20, 2003 **Summer School on Frontiers of the Universe – NATO ASI**
Cargese, Corse Island, France
- Aug 31 - Sept 10, 1999 **International School of Space Science on High Resolution Observations in Astronomy**
L'Aquila, Italy

International conferences / workshops

- August 23- 27, 2008 **The 9th International Conference on Systems Biology ICSB2008**
Gothenburg, Sweden
Poster contribution
- June 9 - 11, 2008 **Modelling and Computation on Complex Networks and Related Topics**
University of Navarra, Pamplona, Spain
Poster contribution
- May 8 - 10, 2008 **Workshop: Systems Biology in Medicine**
Hospital Clinic, Barcelona, Spain
Poster contribution
- Dec 15 - 16, 2006 **Systems biology: A cell in the computer?**
Barcelona Biomedical Research Park, Barcelona, Spain
Attendance
- June 14 - 19, 2005 **Stellar Pulsation and Evolution**
Villa Mondragone, Monte Porzio Catone, Italy
Oral contribution & Poster contribution
- July 22 - 24, 2002 **Interplay of Periodic, Cyclic and Stochastic Variability in Selected Areas of the HR Diagram**
Brussels, Belgium
Oral presentation
- June 24 - 28, 2001 **International Workshop on Chaotic Transport and Complexity in Classical and Quantum Dynamics**
Carry le Rouet, France
Oral presentation

Visits to foreign centers

- Nov 20 – Dec 20, 2007 **Lehrstuhl für Bioinformatik, University of Leipzig, Germany**
Leipzig, Germany
Funded by AGAUR. Collaboration with Prof. Peter Stadler
- Jan 29 – Feb 29, 2008
- Oct 26 – Nov 14, 2007 **Santa Fe Institute**
Santa Fe, New Mexico, USA
- Sept 8 - 30, 2006 **Los Alamos National Laboratory**
Los Alamos, New Mexico, USA
EU-funded PACE Project Collaboration
- May 21 - June 5, 2003 **European Center for Living Technology**
Venice, Italy
EU-funded PACE Project Collaboration
- Feb 10 - Apr 15, 2005 **Astronomical Observatory of Rome**
Monte Porzio Catone, Italy
- June 1 - July 31, 2004 *Collaboration with Prof. Giuseppe Bono*
- Feb 18 - Mar 2, 2003

Mar 17 - 29, 2003 **Max Planck Institute**
Heidelberg, Germany
Mar 10 - 24, 2002 *Collaboration with Prof. Andreas Burkert*

Publications in refereed journals (PostDoctoral)

Mutate now, die later. Evolutionary dynamics with delayed selection

Andreea Munteanu and Peter F. Stadler
Journal of Theoretical Biology 260, 412 (2009)

Neutrality and robustness in evo-devo: emergence of lateral inhibition

Andreea Munteanu and Ricard V. Solé
PLoS Computational Biology 4(11): e1000226, (2008)

Models of protocell replication

Ricard V. Solé, Javier Macia, Harold Fellermann, Andreea Munteanu, Josep Sardanyés and Sergi Valverde
in Protocells: bridging living and non-living matter. Steen Rasmussen et al., editors. MIT Press (2007)

Synthetic protocell biology: from reproduction to computation

Ricard V. Solé, Andreea Munteanu, Carlos Rodríguez-Caso and Javier Macia
Phyl Trans. Roy. Soc. Lond. B 362, 1727 (2007)

Generic Darwinian selection in catalytic protocell assemblies

Andreea Munteanu, Camille Stephan-Otto Attolini, Steen Rasmussen, Hans Ziock and Ricard V. Solé
Phyl Trans. Roy. Soc. Lond. B 362, 1847 (2007)

Pattern formation in noisy self-replicating spots

Andreea Munteanu and Ricard V. Solé
Int. J. Bif. Chaos 16 (2), 3679 (2006)

Phenotypic diversity and chaos in protocell dynamics

Andreea Munteanu and Ricard V. Solé
Journal of Theoretical Biology 240, 434-442 (2006)

The large-scale organization of chemical reaction networks in astrophysics

Ricard V. Solé and Andreea Munteanu
Europhysics Letters 68(2), 170-176 (2004)

Reddening distribution across the center of the globular cluster omega Centauri

A. Calamida, P.B. Stetson, G. Bono, L.M. Freyhammer, F. Grundahl, M. Hilker, M. I. Andersen, R. Buonanno, S. Cassisi, C. E. Corsi, M. Dall'Ora, M. Del Principe, I. Ferraro, M. Monelli, A. Munteanu et al.
The Astrophysical Journal 634(1), L69 (2005)

Limit-cycle behavior in one-zone convective models

Andreea Munteanu, Giuseppe Bono, Jordi José and Enrique García-Berro
The Astrophysical Journal 627 (2), 454 (2005)

Publications in refereed journals (Doctoral)

Creation of twistless circles in a model of stellar pulsations

Andreea Munteanu, Emilia Petrisor, Enrique García-Berro and Jordi José
Communications in Nonlinear Science and Numerical Simulation 8, 355 (2003)

A weakly nonadiabatic one-zone model of stellar pulsations: application to Mira stars

Andreea Munteanu, Jordi José and Enrique García-Berro
Monthly Notices of the Royal Astronomical Society 341, 855 (2003)

Complex dynamics in a simple model of pulsations for Super-Asymptotic Giant Branch Stars

Andreea Munteanu, Enrique García-Berro, Jordi José and Emilia Petrisor
Chaos 13, 332 (2002)

Publications from conferences and workshops

Goals and pitfalls of gene network inference methods. A comparative study from virtual microarrays and network dynamics

J. Goñi, C. Rodríguez-Caso, R. V. Solé, P. Villoslada and A. Munteanu

Proceedings of the II International Conference "Net-Works 2008. Modeling and computation in complex networks and related topics", June 9-11, 2008, Pamplona, Spain (Poster)

The Carina dSph galaxy: where is the edge?

G. Bono, M. Monelli, A. Walker, A. Munteanu, R. Buonanno, F. Caputo, V. Castellani et al.

Memorie della Societa Astronomica Italiana Supplement 9, 212 (2006) (Oral presentation)

Search for variable stars in the Carina dSph galaxy

A. Munteanu, A. Walker, G. Bono, P.B. Stetson, R. Buonanno, F. Caputo, C. E. Corsi et al.

Memorie della Societa Astronomica Italiana 77, 287 (2006) (Oral presentation)

Stellar populations in the Carina dSph galaxy

M. Monelli, M. Nonino, G. Bono, A. Walker, R. Buonanno, F. Caputo, C. E. Corsi, M. Dall'Ora, P. François, A. Munteanu et al.

Memorie della Societa Astronomica Italiana 77, 270 (2006) (Oral presentation)

The role of turbulent pressure and shell thickness in one-zone convective models

A. Munteanu, G. Bono, J. José, E. García-Berro and R.F. Stellingwerf

Memorie della Societa Astronomica Italiana 77, 139 (2006) (Poster)

Eclipsing binaries in the galactic globular cluster Omega Centauri

A. Calamida, G. Bono, R. Buonanno, C. E. Corsi, M. Monelli, M. Dall'Ora, L. M. Freyhammer, A. Munteanu et al.

INTERACTING BINARIES: Accretion, Evolution, and Outcomes. AIP Conference Proceedings 797, 61 (2005) (Oral presentation)

Bursting oscillations in long-period variables

Andreea Munteanu, Enrique García-Berro and Jordi José

Astronomical Society of the Pacific Conf. Ser. 292, 285 (2003) (Oral presentation)

Teaching

April 2006

Collaborating Teaching Assistant for:

Master in BioInformatics – Systems Biology, Universitat Pompeu Fabra (7 hours)

May 2009

Certificate for tenure-track lecturer granted by AQU* (Acreditación de profesor lector)

Barcelona, September 3rd, 2009

*Agència per a la Qualitat del Sistema Universitari de Catalunya