

CURRICULUM VITAE
MARIA ANNA RAPSOMANIKI

PERSONAL INFORMATION

Date of Birth 17 May 1983
Home Address Giannitson 11, Patras, 26442, GREECE
Work Address Laboratory of Gen. Biology, School of Medicine, University of Patras, Rio, 26505
Telephone +306947257996
e-mail ripsoman@ceid.upatras.gr, ripsomaniki.marianna@gmail.com

EDUCATION

Since February 2011 Doctorate Student, Cell Cycle Laboratory, Medical School, University of Patras
2007 - 2010 Interdepartmental Master's Program "**Informatics for Life Sciences – Bioinformatics**", University of Patras, GPA: 9.2/10
2001 - 2007 **Computer Engineering and Informatics Department**, School of Engineering, University of Patras, GPA: 7.1/10
February – June 2006 Participation in Socrates/Erasmus Program. Attended courses in **Universidad Politecnica de Madrid**, Escuela Universitaria de Informatica (1 semester)
1999 - 2001 Graduation from the 2nd High School of Corfu, GPA: 19/20

THESES

Master Thesis "**Development of an integrated system for the preprocessing and pattern recognition of proteomics data**", **Supervisor: Prof. Dr. Athanasios Tsakalidis**. This thesis introduces an integrated system for the analysis of proteomics data, which incorporates a novel pipeline preprocessing method coupled with a feature extraction and classification process.
Diploma Thesis "**Knowledge Extraction from Gene Expression and Proteomics data using Computation Intelligence approaches**", **Supervisor: Prof. Dr. Spiridon Likothanassis**. Study and implementation of various Computational Intelligence algorithms applied in biological data from high-throughput experiments (microarray data and proteomics data)

RESEARCH INTERESTS

Current Stochastic Hybrid Systems, Modeling, Systems Biology, DNA replication, Functional Imaging Techniques
General Computational Intelligence, Machine Learning and Data Mining

Previous Projects Preprocessing and Analysis of complex biological high-throughput data
Structural Bioinformatics – homology modeling and docking simulations
microRNA gene identification and target prediction

RESEARCH EXPERIENCE

- 2006 - 2007** **Pattern Recognition Laboratory**, Computer Engineering and Informatics department, School of Engineering, University of Patras
- 2009 - 2010** **Laboratory for Graphics, Multimedia and GIS**, Computer Engineering and Informatics department, School of Engineering, University of Patras
- 2008 - 2009** Research cooperation with the **Biomedical Research Foundation of the Academy of Athens, Proteomics Research Unit**. Preprocessing and analysis of proteomics data.
- 2009** Participation in the European project “**PROject Based SCHOOL Management**”. Statistician and Data Analyst.

CONFERENCES

1. Maria Anna Rapsomaniki, Xenia P. Orkopoulou, Konstantinos Kovas, Athanasios Tsitsoulis, Vasilis Haidinis, Vassiliki A. Gkantouna, Eleni Christodouloupoulou, Ioannis E. Tzimas, George P. Patrinos, Athanassios K. Tsakalidis and Konstantinos Poulas, “**Modeling the neuromuscular junction**”, *4th conference of the Hellenic Society for Computational Biology and Bioinformatics*, Athens, Greece, 18-20 December 2009
2. Maria Anna Rapsomaniki, Nikolaos Nikiforos Giakoumakis, Panagiotis Kotsantis, Eleanna Symeonidou and Zoi Lygerou, “**A user-friendly FRAP analysis tool to assist FRAP data normalization**”, *5th conference of the Hellenic Society for Computational Biology and Bioinformatics*, Alexandroupoli, Greece, 17-19 October 2010
3. Konstantinos Theofilatos, Dimitrios Kleftogiannis, Maria Anna Rapsomaniki, Vasileios Haidinis, Spiridon Likothanassis, Athanasios Tsakalidis, Seferina Mavroudi, “**A novel embedded pre-miRNA classification approach for the prediction of microRNA genes**”, *10th IEEE International Conference on Information Technology and Applications in Biomedicine (ITAB2010)*, Corfu, Greece, 2-5 November 2010
4. Maria Anna Rapsomaniki, Panagiotis Zerefos, Konstantinos Theofilatos, Spiridon Likothanassis, Athanasios Tsakalidis, Seferina Mavroudi, “**A Novel Pipeline Method for the Preprocessing of Mass Spectrometry Proteomics Data**”, *10th IEEE International Conference on Information Technology and Applications in Biomedicine (ITAB2010)*, Corfu, Greece, 2-5 November 2010

TEACHING ASSISTANCE

- 2009 - 2010** Co-supervised 3 diploma theses and 1 master thesis in the Department of Computer Engineering and Informatics, University of Patras
- 2010** Teaching Assistance in the course “Algorithms for Analysis and Management of Biological Strings” in the Interdepartmental Master’s Program “Informatics for Life Sciences – Bioinformatics”, University of Patras

COMPUTING SKILLS

Operating Systems Windows, Unix (Linux)

Programming MATLAB, C, Java, SQL, PHP, JavaScript, HTML, CSS

Tools R package, SPSS (Statistical Computing), CLIPS/ FuzzyCLIPS, WEKA

WORKSHOPS |

January 2010 “Exploring Modular Protein Architecture” EMBL, Heidelberg, Germany

October 2010 “Imaging Biomolecules in Time and Space”, Patras, Greece

LANGUAGE SKILLS |

Native Greek

Other English (*fluent*), Spanish (*very good*), German (*basic*), Italian (*basic*)