
CURRICULUM VITAE

Aristidis G. Vrahatis, Dipl-Ing MS, PhD

Rank: Assistant Professor, Department of Informatics, Ionian University

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PREVIOUS STATUS

- | | |
|-------------|---|
| 2019 - now | Education Advisor (ΣΕΙΠ) at Hellenic Open University (Course: BNP51: Neurobiology and Modeling of Cellular Systems) |
| 2018 - 2021 | Postdoctoral Researcher in Department of Computer Science and Biomedical Informatics of University of Thessaly. |
| 2017 - 2021 | Postdoctoral Researcher in Department of Informatics of the Ionian University |

EDUCATION

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| 2006-2011 | Diploma in Computer Science, Department of Computer Engineering & Informatics, University of Patras, Greece. |
| 2011-2013 | MSc in Computer Science and Engineering, Department of Computer Engineering & Informatics, University of Patras, Greece. |
| 2013- 2016 | PhD in Department of Computer Engineering & Informatics |

THESES

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|----------------|---|
| Diploma Thesis | Mammographic image analysis for microcalcification detection with Wavelet Transform and classification tools. |
| Master Thesis | Fuzzy evolutionary clustering in large scale biological data |
| PhD Thesis | Algorithmic techniques of Systems Biology and Bioinformatics |

RESEARCH INTERESTS

- Pattern Recognition
- Artificial Intelligence
- Biological Complex Systems Modeling
- Network Medicine

TEACHING

As Adjunct Lecturer (In charge of teaching)

2017-2018 (Semester 2)	Adjunct Lecturer in Department of Computer Science and Biomedical Informatics, University of Thessaly. Course taught: Pattern Recognition (undergraduate)
2018-2019 (Semester 1,2)	Education Advisor at Hellenic Open University Course taught: BNP51: Neurobiology and Modeling of Cellular Systems
2019-2020 (Semester 1)	Adjunct Lecturer in Department of Computer Science and Biomedical Informatics, University of Thessaly. Course taught: Numerical Analysis (undergraduate)
2019-2020 (Semester 1,2)	Education Advisor at Hellenic Open University. Course taught: BNP51: Neurobiology and Modeling of Cellular Systems
2019-2020 (Semester 2)	Adjunct Lecturer in Department of Computer Science and Biomedical Informatics, University of Thessaly. Course taught: Pattern Recognition (undergraduate)
2020-2021 (Semester 1)	Adjunct Lecturer in Department of Computer Science and Biomedical Informatics, University of Thessaly). Course taught: Numerical Analysis (undergraduate)
2020-2021 (Semester 1,2)	Education Advisor at Hellenic Open University Course taught: BNP51: Neurobiology and Modeling of Cellular Systems
2020-2021 (Semester 2)	Adjunct Lecturer in Department of Computer Science and Biomedical Informatics, University of Thessaly. Course taught: Pattern Recognition (undergraduate)

As Lecturer (co-teaching)

2016-2017 (Semester 2)	Adjunct lecturer at the department of Informatics, Ionian University Course taught: Proteomics & Genomics Analysis (postgraduate)
2016-2017 (Semester 2)	Adjunct lecturer at the department of Informatics, Ionian University Courses taught: Algorithms in Molecular Biology and in Structural Bioinformatics (postgraduate)
2017-2018 (Semester 1)	Lectures at Department of Informatics, Ionian University. Course taught: Advanced Topics in Databases and Data Structures

- (postgraduate)
- 2018-2019 (Semester 2) Lectures at the Department of Computer Science and Biomedical Informatics, University of Thessaly.
Courses taught: Principles of Designing Educational Software (postgraduate),
- 2018-2019 (Semester 2) Lectures at the Department of Computer Science and Biomedical Informatics, University of Thessaly.
Courses taught: Big Data Mining and Analysis in Medicine and Biology (postgraduate)
- 2018-2019 (Semester 2) Lectures at the Department of Computer Science and Biomedical Informatics, University of Thessaly.
Courses taught: Computer Programming Issues (postgraduate),
- 2018-2019 (Semester 2) Lecturers at Master's Program in Informatics for Life Sciences, University of Patras
Course taught: Basic Methods of Machine Learning and Data Mining
- 2019-2010 (Semester 1) Lectures at the Department of Computer Science and Biomedical Informatics, University of Thessaly.
Courses taught: Big Data Mining and Analysis in Medicine and Biology (postgraduate)
- 2019-2010 (Semester 1) Lectures at the Department of Computer Science and Biomedical Informatics, University of Thessaly.
Courses taught: Principles of Designing Educational Software (postgraduate)
- 2019-2010 (Semester 2) Lectures at the Department of Computer Science and Biomedical Informatics, University of Thessaly.
Courses taught: Computer Programming Issues (postgraduate),
- 2020-2021 (Semester 1) Lectures at the Department of Computer Science and Biomedical Informatics, University of Thessaly.
Courses taught: Big Data Mining and Analysis in Medicine and Biology (postgraduate)
- 2020-2021 (Semester 1) Lectures at the Department of Computer Science and Biomedical Informatics, University of Thessaly.
Courses taught: Principles of Designing Educational Software (postgraduate)

LIST OF PUBLICATIONS

§ International refereed journals (J)

- J1. Krokidis, M. G., Dimitrakopoulos, G. N., Vrahatis, A. G., Tzouvelekis, C., Drakoulis, D., Papavassileiou, F., ... & Vlamos, P. (2022). A Sensor-Based Perspective in Early-Stage Parkinson's Disease: Current State and the Need for Machine Learning Processes. *Sensors*, 22(2), 409.
- J2. Vrahatis, A., Tasoulis, S., Georgakopoulos, S., & Plagianakos, V. (2020). Ensemble Classification through Random Projections for single-cell RNA-seq data. *Information*, 11(11), 502.
- J3. Vrahatis A.G., Vlamos P., Gonidi M., Avramouli A. (2020) Handling the cellular complex systems in Alzheimer's disease through a graph mining approach, *Advances in Experimental Medicine and Biology*, In Press
- J4. Vrahatis A.G., Vlamos P., Avramouli A., Exarchos T. and Gonidi M. (2020) Emerging Machine Learning techniques for modelling cellular complex systems in Alzheimer's disease, *Advances in Experimental Medicine and Biology*, In Press.
- J5. Georgakopoulos S., Tasoulis S., Mallis G., Vrahatis A., Plagianakos V. and Magglogiannis I., (2020) Change Detection and Convolution Neural Networks for Fall Recognition, *Neural Computing and Applications*, 1-14. <https://doi.org/10.1007/s00521-020-05208-8>. ([PDF](#))
- J6. Vrahatis, A. G., Kotsireas, I. S., & Vlamos, P. (2020). A Systems Biology Approach for the Identification of Active Molecular Pathways During the Progression of Alzheimer's Disease. *Advances in Experimental Medicine and Biology*, 1194:303-314. doi: 10.1007/978-3-030-32622-7_28. PMID: 32468546. ([PDF](#))
- J7. Vrahatis, A. G., Kotsireas, I. S., & Vlamos, P. (2020). Detecting Common Pathways and Key Molecules of Neurodegenerative Diseases from the Topology of Molecular Networks. *Advances in Experimental Medicine and Biology*, 1194:409-421. doi: 10.1007/978-3-030-32622-7_38. ([PDF](#))
- J8. Campbell-Tofte, J., Vrahatis, A., Josefsen, K., Mehlsen, J., & Winther, K. (2019). Investigating the aetiology of adverse events following HPV vaccination with systems vaccinology. *Cellular and molecular life sciences*, 76(1), 67-87. ([PDF](#))
- J9. Dragomir, A., Vrahatis, A. G., & Bezerianos, A. (2018). A Network-Based Perspective in Alzheimer's Disease: Current State and an Integrative Framework. *IEEE journal of biomedical and health informatics*, 23(1), 14-25. ([PDF](#))
- J10. Drakopoulos, G., Kanavos, A., Karydis, I., Sioutas, S., & G Vrahatis, A. (2017). Tensor-based semantically-aware topic clustering of biomedical documents. *Computation*, 5(3), 34. ([PDF](#))
- J11. Vrahatis, A. G., Dimitrakopoulou, K., Kanavos, A., Sioutas, S., & Tsakalidis, A. (2017). Detecting Perturbed Subpathways towards Mouse Lung Regeneration Following H1N1 Influenza Infection. *Computation*, 5(2), 20. ([PDF](#))
- J12. Vrahatis, A. G., Dimitrakopoulou, K., Balomenos, P., Tsakalidis, A. K., & Bezerianos, A. (2016). CHRONOS: a time-varying method for microRNA-mediated subpathway enrichment analysis. *Bioinformatics*, 32(6), 884-892. ([PDF](#)) ([SUPPLEMENTARY FILE](#)) ([R Bioconductor Package](#))
- J13. Vrahatis, A. G., Balomenos, P., Tsakalidis, A. K., & Bezerianos, A. (2016). DEsubs: an R package for flexible identification of differentially expressed subpathways using RNA-seq experiments. *Bioinformatics*, 32(24), 3844-3846. ([PDF](#)) ([SUPPLEMENTARY FILE](#)) ([R Bioconductor Package](#))

- J14. Dimitrakopoulou, K., Vrahatis, A. G., & Bezerianos, A. (2015). Integromics network meta-analysis on cardiac aging offers robust multi-layer modular signatures and reveals micronome synergism. *BMC genomics*, 16(1), 147. ([PDF](#)) ([MatLab Code](#))
- J15. Dimitrakopoulos, G., Vrahatis, A., Dimitrakopoulou, K., Tsakalidis, A., Sgarbas, K., & Bezerianos, A. (2013). Module-Based Cross-Tissue Pathway Identification in Aging. *Transactions of Japanese Society for Medical and Biological Engineering*, Volume 51, Issue Supplement <https://doi.org/10.11239/jsmbe.51.R-170>. ([PDF](#)) ([Poster](#))
- J16. Dimitrakopoulou, K., Vrahatis, A. G., Wilk, E., Tsakalidis, A. K., & Bezerianos, A. (2013). OLYMPUS: An automated hybrid clustering method in time series gene expression. Case study: Host response after Influenza A (H1N1) infection. *Computer methods and programs in biomedicine*, 111(3), 650-661. ([PDF](#)) ([MatLab Code](#))

§ Chapters in Books (B)

- B1. Vrahatis, A. G., Tasoulis, S. K., Maglogiannis, I., & Plagianakos, V. P. (2020). Recent Machine Learning Approaches for Single-Cell RNA-seq Data Analysis. In *Advanced Computational Intelligence in Healthcare-7* (pp. 65-79). Springer, Berlin, Heidelberg. ([PDF](#))

§ Refereed conference proceedings (C)

- C1. Barbas, P., Vrahatis, A. G., & Tasoulis, S. K. (2021, December). RLAC: Random Line Approximation Clustering. In *2021 IEEE International Conference on Big Data (Big Data)* (pp. 985-993). IEEE.
- C2. Chatzilygeroudis, K. I., Vrahatis, A. G., Tasoulis, S. K., & Vrahatis, M. N. (2021, June). Feature Selection in Single-Cell RNA-seq Data via a Genetic Algorithm. In *International Conference on Learning and Intelligent Optimization* (pp. 66-79). Springer, Cham.
- C3. Krokidis, M. G., Dimitrakopoulos, G., Vrahatis, A. G., Exarchos, T. P., & Vlamos, P. (2021, December). Recent Dimensionality Reduction Techniques for Visualizing High-Dimensional Parkinson's Disease Omics Data. In *2021 IEEE International Conference on Big Data (Big Data)* (pp. 4460-4463). IEEE.
- C4. Anagnostou, P., Tasoulis, S., Vrahatis, A. G., Georgakopoulos, S., Prina, M., Ayuso-Mateos, J. L., ... & Panagiotakos, D. (2021). Enhancing the Human Health Status Prediction: The ATHLOS Project. *Applied Artificial Intelligence*, 35(11), 834-856.
- C5. Vrahatis, A. G., Vlamos, P., Avramouli, A., Exarchos, T., & Gonidi, M. (2020, September). Pathway Analysis for unraveling Complex Diseases: Current State and Future Perspectives. In *2020 5th South-East Europe Design Automation, Computer Engineering, Computer Networks and Social Media Conference (SEEDA-CECNSM)* (pp. 1-8). IEEE. ([PDF](#))
- C6. Vrahatis, A. G., Vlamos, P., Gonidi, M., Sagiadinou, M., & Avramouli, A. (2020, September). Network Biomarkers for Alzheimer's Disease via a Graph-based Approach. In *2020 5th South-East Europe Design Automation, Computer Engineering, Computer Networks and Social Media Conference (SEEDA-CECNSM)* (pp. 1-7). IEEE. ([PDF](#))
- C7. Vrahatis A., Tasoulis S., Dimitrakopoulos G. and Plagianakos V. (2019) Visualizing High-Dimensional Single-Cell RNA-seq Data via Random Projections and Geodesic Distances. In *2019 IEEE Conference on Computational Intelligence in Bioinformatics and Computational Biology (CIBCB)* (pp. 1-6). IEEE ([PDF](#))

- C8. Vrahatis, A. G., Dimitrakopoulos, G. N., Tasoulis, S. K., & Plagianakos, V. P. (2019, July). A single-cell Systems Biology approach for disease-specific subpathway extraction. In *2019 IEEE Conference on Computational Intelligence in Bioinformatics and Computational Biology (CIBCB)* (pp. 1-7). IEEE ([PDF](#))
- C9. Vrahatis, A., Dimitrakopoulos, G., Tasoulis, S., & Plagianakos, V. (2019, October). Enhancing Clustering of Single-Cell RNA-Seq Data by Proximity Learning on Random Projected Spaces. In *2019 IEEE 19th International Conference on Bioinformatics and Bioengineering (BIBE)* (pp. 846-849). IEEE. ([PDF](#))
- C10. Tasoulis, S. K., Mallis, G. I., Georgakopoulos, S. V., Vrahatis, A. G., Plagianakos, V. P., & Maglogiannis, I. G. (2019, May). Deep Learning and Change Detection for Fall Recognition. In *International Conference on Engineering Applications of Neural Networks* (pp. 262-273). Springer, Cham. ([PDF](#))
- C11. Georgakopoulos, S. V., Tasoulis, S. K., Vrahatis, A. G., & Plagianakos, V. P. (2019, April). Convolutional Neural Networks for Twitter Text Toxicity Analysis. In *INNS Big Data and Deep Learning conference* (pp. 370-379). Springer, Cham. ([PDF](#))
- C12. Vrahatis, A. G., Dimitrakopoulos, G. N., Tasoulis, S. K., Georgakopoulos, S. V., & Plagianakos, V. P. (2019, December). Single-cell regulatory network inference and clustering from high-dimensional sequencing data. In *2019 IEEE International Conference on Big Data (Big Data)* (pp. 2782-2789). IEEE. ([PDF](#))
- C13. Dimitrakopoulos, G. N., Vrahatis, A. G., Plagianakos, V., & Sgarbas, K. (2018, July). Pathway analysis using XGBoost classification in Biomedical Data. In *Proceedings of the 10th Hellenic Conference on Artificial Intelligence* (p. 46). ACM. ([PDF](#))
- C14. Georgakopoulos, S. V., Tasoulis, S. K., Vrahatis, A. G., & Plagianakos, V. P. (2018). Convolutional Neural Networks for Toxic Comment Classification. In *Proceedings of the 10th Hellenic Conference on Artificial Intelligence*. ACM. ([PDF](#))
- C15. Tasoulis, S. K., Vrahatis, A. G., Georgakopoulos, S. V., & Plagianakos, V. P. (2018). Real Time Sentiment Change Detection of Twitter Data Streams. *2018 Innovations in Intelligent Systems and Applications (INISTA)*, Thessaloniki, 2018, pp. 1-6, doi: 10.1109/INISTA.2018.8466326. ([PDF](#))
- C16. Tasoulis, S. K., Vrahatis, A. G., Georgakopoulos, S. V., & Plagianakos, V. P. (2018, December). Visualizing High-dimensional single-cell RNA-sequencing data through multiple Random Projections. In *2018 IEEE International Conference on Big Data (Big Data)* (pp. 5448-5450). IEEE. ([PDF](#))
- C17. Tasoulis, S. K., Vrahatis, A. G., Georgakopoulos, S. V., & Plagianakos, V. P. (2018, December). Biomedical Data Ensemble Classification using Random Projections. In *2018 IEEE International Conference on Big Data (Big Data)* (pp. 166-172). IEEE. ([PDF](#))
- C18. Dimitrakopoulos, G. N., Kakkos, I., Vrahatis, A. G., Sgarbas, K., Li, J., Sun, Y., & Bezerianos, A. (2017, August). Driving Mental Fatigue Classification Based on Brain Functional Connectivity. In *International Conference on Engineering Applications of Neural Networks* (pp. 465-474). Springer, Cham. ([PDF](#))
- C19. Vrahatis, A. G., Rapti, A., Sioutas, S., & Tsakalidis, A. (2017). PerSubs: A graph-based algorithm for the identification of perturbed subpathways caused by complex diseases. In *GeNeDis 2016* (pp. 215-224). Springer, Cham. ([PDF](#))
- C20. Dimitrakopoulos, G. N., Balomenos, P., Vrahatis, A. G., Sgarbas, K., & Bezerianos, A. (2016, August). Identifying disease network perturbations through regression on gene expression and

pathway topology analysis. In *Engineering in Medicine and Biology Society (EMBC), 2016 IEEE 38th Annual International Conference of the* (pp. 5969-5972). IEEE. ([PDF](#))

- C21. Vrahatis, A. G., Dimitrakopoulos, G. N., Tsakalidis, A. K., & Bezerianos, A. (2015, August). Identifying miRNA-mediated signaling subpathways by integrating paired miRNA/mRNA expression data with pathway topology. In *Engineering in Medicine and Biology Society (EMBC), 2015 37th Annual International Conference of the IEEE* (pp. 3997-4000). IEEE. ([PDF](#))
- C22. Dimitrakopoulos, G. N., Vrahatis, A. G., Balomenos, P., Sgarbas, K., & Bezerianos, A. (2015, July). Age-related subpathway detection through meta-analysis of multiple gene expression datasets. In *Digital Signal Processing (DSP), 2015 IEEE International Conference on* (pp. 539-542). IEEE. ([PDF](#))
- C23. Dimitrakopoulou, K., Vrahatis, A. G., Dimitrakopoulos, G. N., & Bezerianos, A. (2014). Aging Integromics: Module-Based Markers of Heart Aging from Multi-omics Data. In *The 15th International Conference on Biomedical Engineering* (pp. 104-107). Springer, Cham. ([PDF](#))
- C24. Vrahatis, A. G., Dimitrakopoulou, K., Dimitrakopoulos, G. N., Sgarbas, K. N., Tsakalidis, A. K., & Bezerianos, A. (2014). Network-based modular markers of aging across different tissues. In *XIII Mediterranean Conference on Medical and Biological Engineering and Computing 2013* (pp. 1849-1852). Springer, Cham. ([PDF](#))

§ Other conference publications

o Abstract papers in International Conferences (A)

A1. Aristidis G. Vrahatis, et al., Cardiac aging signatures in the form of network communities, *Biology of Ageing Conference*, Singapore, 22-24 October 2015. ([Poster](#))

A2. K. Dimitrakopoulou, Aristidis G. Vrahatis, A Bezerianos. Inferring systems-level cardiac aging biomarkers through integromics network analysis. *Cardiovascular research* 103, S12-S12 ([PDF](#))

A3. Georgios Dimitrakopoulos, Konstantina Dimitrakopoulou, Aristidis G. Vrahatis, Kyriakos N. Sgarbas, Anastasios Bezerianos. An integrative meta-analysis method to reveal age-related cross-tissue pathways. *27th International Mammalian Genome Conference*, 15 -18 September 2013, Salamanca, Spain ([Link](#))([Poster](#))

A4. Aristidis G. Vrahatis, et al., SubPathTimer: a time-varying subpathway enrichment analysis method. *ECCB'14 13th European Conference on Computational Biology*. 2014, Strasbourg ([Poster](#))

o Panhellenic Conferences (P)

P1. Aristidis G. Vrahatis, Sotiris Tasoulis and Vassilis Plagianakos, Visualization of single-cell RNA-seq data through k Nearest Neighbors search in Random Projected Spaces, *The 14th conference of the hellenic society for computational biology and bioinformatics (HSCBB19)*, 2019, Patras, Greece

P2. Aristidis G. Vrahatis, Andrei Dragomir and Anastasios Bezerianos, Subpathway approaches on the road to Network Medicine, *7th Panhellenic Conference on Biomedical Technology*, 2017, Athens, Greece ([PDF](#))

P3. Aristidis G. Vrahatis, et al., Structural and functional communities of longevity-associated genes in signaling pathways, *6th Panhellenic Conference on Biomedical Technology*, 2015, Athens, Greece ([PDF](#))

P4. Georgios N. Dimitrakopoulos, Aristidis G. Vrahatis, Kyriakos Sgarbas and Anastasios Bezerianos, Gene expression trend analysis in Aging, *6th Panhellenic Conference on Biomedical Technology, 2015*, Athens, Greece ([PDF](#))

o **Package Tutorials (T)**

T1. [CHRONOS Tutorial: Vrahatis AG, Dimitrakopoulou K, Balomenos P.](#)

T2. [DEsubs Tutorial: Vrahatis, A.G. and Balomenos, P.](#)

SCIENTIFIC ACTIVITIES

▪ **Invited Talks in Workshops**

1. [5th Workshop on Medical Physics and Biomedical Engineering, 6 to 10 November 2017 at Ionian University.](#)
2. [Workshop on Network Biology/Integromics Bioinformatics – Applications Towards Medicine, 23-25 August 2017, Bergen](#)

▪ **Invited Talks in Postgraduate Programs**

1. 2017-2018 (Semester 1): 2 Invited lectures at the Department of Computer Science and Biomedical Informatics, University of Thessaly. Courses taught: Big Data Mining and Analysis in Medicine and Biology (postgraduate)
2. 2017-2018 (Semester 1): 2 Invited lectures at Master's Program in Informatics for Life Sciences, University of Patras. Course taught: Basic Methods of Machine Learning and Data Mining (postgraduate)

▪ **Workshop Organization**

1. [5th Workshop on Advances in High-Dimensional Big Data \(Co-located with the IEEE Big Data 2020\)](#)

▪ **Session Chair in International Conferences**

1. [21st International Conference on Engineering Applications of Neural Networks \(EANN2020\)](#)

▪ **SUPERVISING**

- o Currently supervising of three undergraduate students at Department of Computer Science and Biomedical Informatics, University of Thessaly.
 - Manios Georgios: «Unsupervised Learning for Large Scale Data»
 - Eleni Papaleftheri: «Clustering of Large Scale Molecular Biology Data»
 - Marini Vlasia: «Visualization of Large Scale Molecular Biology Data»

- Currently supervising of three postgraduate students at Master of Science Bioinformatics and Neuroinformatics, Hellenic Open University
 - Adam Koletis: «Modelling Cellular Complex Systems using Graph Theory»
 - Eleni Thanou: «Identifying Network Biomarkers for Complex Diseases using Omics data»
 - Afrodite Agorastou: «Gene Regulatory Networks Reconstruction for Complex Diseases»

▪ **Reviewer in International Journals (Selected)**

1. [Bioinformatics](#)
2. [ICT Express](#)
3. [International Journal on Artificial Intelligence Tools](#)
4. [Frontiers in Genetics](#)
5. [Neural Computing and Applications](#)
6. [IEEE Transactions on Evolutionary Computation](#)

▪ **Reviewer for International Conferences (Selected)**

1. [European Conference on Computational Biology \(ECCB 18\)](#)
2. [IEEE BigData 2019](#)
3. [IEEE BigData 2020](#)
4. [IEEE International Conference on Bioinformatics and Bioengineering \(IEEE BIBE 2019\)](#)

AWARDS

1. 3rd Paper Award in Young Research Competition in XIII Mediterranean Conference on Medical and Biological Engineering and Computing, 2013 ([PDF](#))
2. Selected for Travel Fellowship to attend the conference “Biology of Aging”, Singapore 22-24 October, 2015
3. Best Poster Award in Best Poster Competition in Cardiovascular research Conference, Barcelona 2014
4. Best Poster Award in Workshop MET-GR III: Metabolic and Protein Network Analysis in Systems Biology, Sep 18-20 2014, Patras GREECE
5. Award for the Bioinformatics and Human Electrophysiology Laboratory of the Department of Informatics of the Ionian University, where he is member, for the research in the context of the coronavirus pandemic from the Texas Medical Centre, in 2020 ([Link](#))

SCHOLARSHIPS

- 2017 – 2018** Successfully applied for **Teaching Scholarship** within project "Academic teaching Experience for New post Doctoral Scientists" financed by the National Strategic Reference Framework (NSRF), for the Numerical Analysis (undergraduate) course of Department of Computer Science and Biomedical Informatics.
- 2019 – 2020** Successfully applied for **Teaching Scholarship** within project "Academic teaching Experience for New post Doctoral Scientists" financed by the National Strategic Reference Framework (NSRF), for the Pattern Recognition (undergraduate) course of Department of Computer Science and Biomedical Informatics.

RESEARCH GRANTS

Project Title	Funding source	Period	Role of the PI
Modelling the dynamic progression of cellular aging through the development of systems biology and bioinformatics tools	“Education and Lifelong Training” Action “Thalis”	2012-2015	PhD Candidate Member
Big graph mining for deciphering complex disease mechanisms	National Strategic Reference Framework (NSRF) Program with title: “Researcher Support with Emphasis on New Researches”	2017-2019	Postdoc Member
Clustering Big Data	Hellenic Foundation for Research and Innovation	2019-2022	Postdoc Member
Study of drug protocols with biomarkers that define the evolution of non-genetic neurodegenerative diseases - NEUROPHARMA”, project number: 5016117	European Union and Greece (Partnership Agreement for the Development Framework 2014-2020) under the Regional Operational Programme Ionian Islands 2014-2020	2020-2022	Postdoc Member

SOFTWARE DEVELOPMENT PACKAGES

1. [DEsubs R Bioconductor Package](#)
2. [CHRONOS R Bioconductor Package](#)
3. [Network Approach for Modeling Aging MatLab Code](#)
4. [OLYMPUS MatLab Code](#)
5. [MRPV MatLab Code](#)