Fotis E. Psomopoulos, Ph.D.

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Current Position

- **Researcher Grade C (Assistant Professor Level)** (May 2019 – today), Institute of Applied Biosciences, Center for Research and Technology Hellas (CERTH), Thermi 57001, Thessaloniki, Greece.

Research Expertise

- **Bioinformatics**: NGS data analysis (RNA-Seq, ChIP-Seq, WES), comparative genomics, phylogenetics.
- **Data mining in large scale bio-data**: Clustering and classification algorithms, integrative -omics data analysis.
- **Cloud and Grid computing frameworks**: emphasis on reproducible workflows and computational pipelines (docker, nextflow, biocontainers etc.)
- **Parallel and Distributed analytics systems**: optimization for data-intensive processes.

Education

	Postdoctoral research Institute of Applied Biosciences (INAB), CERTH, Greece. Postdoctoral research topic: *"Phylogenetic Data Analysis".*
2010-2014	Postdoc supervisor: Prof. Christos A. Ouzounis. *Research focus on inferring ancestral status of metabolic pathways through the use of genome-aware methods. Extension of the phylogenetic profiles into fuzzy profiles, thus enabling the detection of genomic idiosyncrasies.*
	PhD Student Dept. of Electrical and Computer Engineering, Faculty of Engineering, AUTH, Greece. PhD Thesis Title: "*Parallel Data Mining and Analysis Algorithms in a Grid environment and applications in Bioinformatics*".
2004-2010	PhD Advisor: Prof. Pericles A. Mitkas. *Research focus on the classification and clustering algorithms, aiming for protein classification. Design of distributed workflows in order to address issues such as scalability and big data management.*
	Diploma in Electrical and Computer Engineering Dept. of Electrical and Computer Engineering, AUTH, Greece (Grade: 8.17/10). Diploma Dissertation Title: "*A Finite State Automata based data-mining algorithm for interesting rules extraction, with application in protein classification*".
1999-2004	Supervisor: Prof. Pericles A. Mitkas. *Design and implementation of a novel data mining algorithm through the extension of Finite State Automata in order to address stochastic processes. The algorithm was applied in curated protein data in order to infer classification rules using the PROSITE data scheme.*

Scholarly and Technical Courses

Sep. 2017	*Train-the-trainers certification*, Software and Data Carpentry. Instructor in 2 international workshops (Sep. 2017 – today).

Feb. 2016	*Instructor Certification*, Software Carpentry and Data Carpentry. Instructor in 3 international workshops (Feb. 2016 – today).
Oct. 2007	"*Bioinformatics Course; Introduction to Sequence Analysis*", organized by the EMBnet nodes of Greece and Switzerland, Biomedical Research Foundation, Academy of Athens, Greece.
Sep. 2006	*1st European Summer School on Knowledge Discovery for Ubiquitous Computing*, Dept. Computer Science VIII, University of Dortmund, Germany.
Feb. 2006 & Jul. 2005	"*Introduction to Grid Computing*", Co-organized by GRNET and the Information Technologies Institute – CERTH, University of Macedonia, Thessaloniki, Greece.
Spring sem. 2002 - 2003	"*Computer Programming*", 32-hour undergraduate seminar course, Dept. of Electrical and Computer Engineering, Aristotle University of Thessaloniki, Greece

Other training

Dec. 2010	School of Research and Informatics Officers of the Hellenic Army (mandatory military service – special scientist / analyst)
Feb. 2002	Degree in Violin, New Conservatoire of Thessaloniki, Grade: Excellent.
Sep. 1998	Zeugnis Zentrale Mittelstufen prüfung, Goethe Institut.
Jul. 1996	Certificate of Proficiency in English, University of Cambridge, Grade: B

Teaching Experience

Undergraduate courses:
- Data Structures: 3 semesters (*Oct. 2014 – Feb. 2017*) as *Academic Fellow* and 5 semesters (*Oct. 2005 – Feb. 2010*) *as PhD student*, Dept. of Electrical and Computer Engineering, Faculty of Engineering, AUTH, Thessaloniki, Greece.
- Computer programming: 2 blocks (a block is semester equivalent, *Feb. – Mar. 2016* and *Oct. 2017*), *Visiting Professor* at Quest University Canada, Squamish, Vancouver, Canada.
- Advanced topics in Software Engineering: 1 semester (*Oct. 2011 – Feb. 2012*), *Adjunct Lecturer*, Dept. of Informatics Engineering and Communication, University of Western Macedonia, Kozani, Greece.
- Lectures on Bioinformatics, in conjunction with the Biochemistry II and Biochemistry III courses: 4 hrs per semester for 4 semesters (*Mar 2014 – Feb. 2016*), *Research Associate,* Biochemistry Laboratory, School of Medicine, AUTH, Thessaloniki, Greece.

Post-graduate courses (*Research Associate*):
- Lectures on "Functional Genomics using Bioinformatics tools" and "Graph theory and applications in Medical Research": 4 hrs per semester for 4 semesters (*Mar. 2014 – Jun. 2017*), Medical Postgraduate Programme, School of Medicine, AUTH, Thessaloniki, Greece.
- Lectures on "Applied Data Mining to Medical Research": 1 semester (*Spring 2016*), "Medical Research Methodology" course, International Medical Postgraduate Programme, School of Medicine, AUTH, Thessaloniki, Greece.
- Lectures on "Introduction to Grid Computing" and "Grid computing and applications in biomedicine", 4 hrs per semester for 3 semesters (*Oct. 2013 – Feb. 2016*), Postgraduate Programme in Medical Informatics, School of Medicine, AUTH, Thessaloniki, Greece.

Training activities:
- 2nd RNA-seq workshop for beginners: from sequences to visualization using Galaxy, Erasmuc MC Rotterdam (NL), Institute of Computer Science, Tartu (EE), and Institute of Applied Biosciences (NAB|CERTH) (GR), 7 – 9 October 2019.
- Introduction to Machine Learning: opportunities for advancing omics data analysis, [BC]2 conference, Basel, Switzerland, September 9th 2019.
- ELIXIR/CODATA-RDA Advanced Bioinformatics Workshop, part of the CODATA-RDA School of Research Data Science, week-long course covering NGS data analysis pipelines together with Machine Learning approaches, ICTP, Trieste, 19 – 23 August 2019.

- ELIXIR-GR Carpentries Instructor Training and 4OSS workshop, ATHENA RC, Athens, 15 – 19 July, 2019.
- 1st RNA-seq workshop for beginners: from sequences to visualization using Galaxy, Erasmuc MC Rotterdam and Freiburg University, 11 – 12 June 2019.
- ELIXIR-GR Software Carpentry workshop, NHRF, Athens, 3 – 4 June 2019.
- ELIXIR-GR Software Carpentry workshop, Bioacademy, Athens, 10 – 11 January 2019.
- ELIXIR Data Carpentry Genomics, University of Debrecen, Debrecen, 1- 2 December 2018.
- ELIXIR/CODATA-RDA Advanced Bioinformatics Workshop, part of the CODATA-RDA School of Research Data Science, week-long course covering NGS data analysis pipelines together with Machine Learning approaches, ICTP, Trieste, 20 – 24 August 2018.
- Analyzing Next-Generation Sequencing Data (ANGUS), Data Intensive Biology Summer Institute, *Lead Instructor*, two-week workshop covering foundational bioinformatics tools and topics, organized by Professor C. Titus Brown at UC Davis, CA, USA, 2- 14 July 2018.
- Workshop: Bioinformatics: A Data Mining Approach, *Instructor* at the International Course "*BIOMEDieval: it's a new era in engineering!*" organized by BEST (Board of European Students of Technology) at Aristotle University of Thessaloniki, 7-16 March 2018 (ECTS Credits 1.0).
- Workshop: Reproducible data analysis (R and Jupyter), Instructor and Organizer, Open Science Tools, Data and Technologies for Ecological and Evolutionary Research conference, NIOO/DANS, The Netherlands, 7- 9 Dec. 2017.
- Data Carpentry: Wrangling Genomics Lesson, *Maintainer* since August 2017.
- Analyzing Next-Generation Sequencing Data (ANGUS), Data Intensive Biology Summer Institute, *Helper and Instructor*, two-week workshop covering foundational bioinformatics tools and topics, organized by Professor C. Titus Brown at UC Davis, CA, USA, 26 June - 7 July 2017.
- Workshop: building a simple application in Java, *Instructor* at the International Course "*APP, iWanna bring you App*" organized by BEST (Board of European Students of Technology) at Aristotle University of Thessaloniki, 15-25 March 2017 (ECTS Credits 1.0).
- Software Carpentry workshop, *Organizer and Lead Instructor*, Aristotle University of Thessaloniki, Thessaloniki, Greece, 4 – 5 Oct. 2016.
- NGS Data Analysis workshop, *Organizer and Instructor*, EGI Community Forum 2015, INFN, Bari, Italy, 10 – 13 Nov. 2015.
- Bioinformatics Training Workshop on NGS Analysis: cross-domain data exploration, *Organizer and Instructor*, Institute of Applied Biosciences, CERTH, Thessaloniki, Greece, 21 Oct. 2015.
- Comparative genomics of metabolic pathways and the computational inference of their ancestral states, *Trainer*, EBI Training School: Microme Workshop on Microbial Metabolism, Oct. 2013, EMBL-EBI, Genome Campus, Hinxton, Cambridgeshire, UK.
- Introduction to Bioinformatics, 3 semesters, (10/15/16 hours, Apr. 2012 – June 2013), *Organizer and Instructor*, Information Processing Laboratory, Dept. Electrical and Computer Engineering, AUTH, Thessaloniki, Greece.

Intern Supervisor, for 3-month student internships at INAB|CERTH (2015 – today):
> 6 completed and 1 ongoing (conclusion date: August 31st, 2018)

Diploma Thesis co-advisor (2019 – today as *Researcher*, 2011 – 2018 as *Academic Fellow*, 2005 – 2010 as *PhD studen*t):
> 15 undergraduate Diploma theses completed (2005 – today).
> 3 Master theses completed (2016 – today).
> - Two diploma theses distinctions, both with the 2nd award of the IEEE EMBS Greece Chapter (academic years 2011 – 2012 and 2013 – 2014 respectively).

Invited Talks:
- "Challenges in Data Management for Life Sciences", Hellenic Society of Haematology, Athens, 28 September 2019.
- "End-to-end computational workflows for NGS data analysis", ICGEB Workshop "Next Generation Diagnostics", Skopje, March 22-24, 2018.

- "The role of Bioinformatics in the today's laboratory", 27th Panhellenic Haematology Conference, Ioannis Vellidis Congress Centre, HELEXPO – Thessaloniki, Nov. 3 – 5, 2016.
- "Bioinformatics activities in European e-infrastructures", Workshop "Bioinformatics in AUTH: joining the ELIXIR infrastructure", Aristotle University Research Dissemination Center, Oct. 13, 2016.
- ELIXIR EXCELERATE workshop "Using clouds and VMs in bioinformatics training", CSC, Helsinki, Finland, May 23 – 25, 2016
  - "Clouds, VMs and other resources from EGI for bioinformatics training",
  - "How to use bioinformatics applications running on the EGI FedCloud".

Employment

10/2018 – 04/2019	**Research Coordinator** Dept. of Molecular Medicine and Surgery, Karolinska Institutet, Stockholm, Sweden. Brief Description of Duties: • Large-scale analysis of hematological malignancies, in particular chronic lymphocytic leukemia. • Work on translational projects, linking molecular data to clinical records.
03/2017 – 04/2019	**Postdoctoral Research Associate** *Institute of Applied Biosciences, Center for Research and Technology Hellas (CERTH), Thermi, Thessaloniki, Greece.* Brief Description of Duties: • Supporting research for NGS data analysis and metagenomics studies. • In charge of data management processes and protocols and the development of new and automated bioinformatics pipelines.
10/2017	**Visiting Professor** *Quest University, Vancouver, Canada.* Brief Description of Duties: Teaching of the undergraduate course "Computer Programming" for one block (semester equivalent). • Assignments (daily homework, three weekly assignments, and a final project) • Daily office hours The course comprised of 20 students with minimal or no background in computer science and programming.
10/2014 – 03/2017	**Academic Fellow** *Dept. of Electrical and Computer Engineering (ECE), Aristotle University of Thessaloniki (AUTH), Thessaloniki, Greece.* Brief Description of Duties: Primary duties on teaching activities; • Undergraduate courses: "Data Structures and Programming in Java" (ECE), "Lectures on Bioinformatics" (School of Medicine) • Graduate courses: "Applied Data Mining to Medical Research", "Functional Genomics using Bioinformatics tools" and "Grid computing and applications in biomedicine". • Co-advisor in Thesis projects at the Diploma and Master level. Administrative activities: • Deputy Scientific Representative of AUTH for the ELIXIR-GR node. • Contact person of IPL for the European Biotechnology Network.

Postdoctoral Research Fellow
Information Technologies Institute (ITI), Center for Research and Technology Hellas (CERTH), Thessaloniki, Greece.
Brief Description of Duties:
Research activities:

09/2014
–
01/2017

- Bioinformatics support on NGS data analysis (RNA-seq, miRNA and ChIP-seq data).
- Development of custom tools using R/Bioconductor and Cloud Computing resources.

Administrative activities:

- Technical Coordinator of the EU-funded project RAPP

Training activities:

- Organizer of several national and international training events, such as the "Bioinformatics Training Workshop on NGS Analysis: cross-domain data exploration".

Visiting Professor
Quest University, Vancouver, Canada.
Brief Description of Duties:
Teaching of the undergraduate course "Computer Programming" for one block (semester equivalent).

02/2016
–
03/2016

- Assignments (daily homework, three weekly assignments, and a final project)
- Daily office hours

The course comprised of 20 students with minimal or no background in computer science and programming. Final evaluation of the course content and the Instructor by the students was excellent.

Postdoctoral Researcher
Institute of Applied Biosciences (INAB), Center for Research and Technology Hellas (CERTH), Thessaloniki, Greece.
Brief Description of Duties:

09/2011
–
05/2014

Postdoctoral research within the context of the EU-Funded project MICROME. Focus on:

- Inference of ancestral status of metabolic pathways through the use of genome-aware methods.
- Extension of the phylogenetic profiles into fuzzy profiles, thus enabling the detection of genomic idiosyncrasies.

Adjunct Lecturer
Dept. of Informatics Engineering and Communication, University of West Macedonia (UOWM), Kozani, Greece.
Brief Description of Duties:

10/2011
–
02/2012

Teaching the 9th semester undergraduate course "Advanced Topics in Software Engineering", which included both theoretical lectures as well as practical sessions.

- Group project, split into three consecutive assignments throughout the semester.
- Final written examination.

Mandatory Military Service (Special Scientist, Analyst / Developer)
Hellenic Army, Research and Informatics Corps.
Brief Description of Duties:

11/2010
–
08/2011

- Training at the School of the Research and Informatics Officers of the Hellenic Army in Athens
- Service as a special scientist / analyst at the Informatics Section of the Hellenic Supreme Joint War College (SJWC) in Thessaloniki.
- Responsible for application development, installation and maintenance of the computer network as well as user administration.

- Involved in the design, implementation and maintenance of an intranet platform, as part of a special Army Research Project.

PhD Student / Software Development

Information Technologies Institute (ITI), Center for Research and Technology Hellas (CERTH), Thessaloniki, Greece.

09/2005 – 04/2009

Brief Description of Duties:

Design and implementation of the software platform in the EU-funded project ASSIST; ASsociation Studies assisted by Inference and Semantic Technologies European Commission IST Program.

PhD Student / Software Development

Dept. of Electrical and Computer Engineering (ECE), Aristotle University of Thessaloniki (AUTH), Thessaloniki, Greece.

07/2004 – 09/2010

Brief Description of Duties:

Design, implementation, maintenance and user support for the e-learning platform "e-THMMY", funded through the National Operational Program for Education and Initial Vocational Training "EPEAKE II".

Undergraduate Trainee

Intracom S.A., Thessaloniki, Greece.

07/2003 – 09/2003

Brief Description of Duties:

Software Design and Development of a web-service platform, within the context of the IST-2001 Project "e-Sharing", using the J2EE programming language, the JBoss application server and Oracle as the database server.

Research Experience

- **Participation** in 4 EU-Funded Research projects (*ASSIST*, *EGI-InSPIRE*, *MICROME*, *RAPP*).
- **Reviewer** in **9 international journals** (*PLoS ONE, BMC Bioinformatics, PeerJ, Journal of Biomedical Informatics, Computer Methods and Programs in Biomedicine, SoftwareX, International Journal on Artificial Intelligence Tools, Journal of Systems and Software, Journal of Parallel and Distributed Computing*) and **4 international conferences**.
- **Member of the** International Society for Computational Biology (**ISCB**), the **IEEE** and the **IEEE Computer Society**, the Hellenic Society of Computational Biology and Bioinformatics (**HSCBB**) and the Technical Chamber of Greece (**TEE**).

Administrative Experience

- **Deputy Training Coordinator of ELIXIR-GR** (January 2018 – today).
- **Chair** of the **CarpentryCon** 2018 Organizing Task Force (Sep. 2017 – today).
- **Co-chair** of the RDA Interest Group "**Early Career and Engagement**" (Aug. 2017 – today).
- **Co-chair** of the RDA Interest Group "**Data Discovery Paradigms**" (Feb. 2017 – today).
- **Deputy Scientific Representative** of the Aristotle University of Thessaloniki for the **ELIXIR-GR** Node (Jul. 2016 - today).
- **Technical Coordinator** of the EU-Funded project **RAPP** (Nov. 2013 – Dec. 2016).
- **Contact point** of the Information Processing Lab for the **European Biotechnology Network** (2016-2017).
- **Software Quality Assurance manager** for the Information Processing Lab, according to ISO 9001:2008 (2015 – 2017).
- **Coordinator of the EGI Virtual Team** on "**Integrating life science reference datasets within EGI**" (Dec. 2014 – Aug. 2015).

- **Main contributor / author** in 14 Grant proposals (both public and private calls); five as the <u>Principal Investigator</u> and two as the <u>Coordinating</u> partner (*July 2010 – today*).

Grants and Awards

- **RDA EU Ambassador**, support programme June 2019 (**RDA page**).
- **RDA EU Expert**, support programme March 2018, April 2019 (**RDA page**).
- **RDA Early Career Fellowship**, July 2016 (**RDA page**).
- **Post-doc Distinction Scholarship** by the AUTH Research Committee, 2014.
- **EGI Champion on Bioinformatics**, support programme, March 2013 – today (**EGI page**).
- **PhD Student Grant**: 1st European Summer School on Knowledge Discovery for Ubiquitous Computing, Dept. Computer Science VIII, Univ. of Dortmund, Germany, 14 – 16 Sept. 2006.
- **Graduation rank**: 9th / 234 students (July 2004), Grade 8.17/10. **Excellence Award** for the 5th academic year (2003 – 2004), Technical Chamber of Greece (TEE), Athens, March 2007, Grade 8.83/10.

Publication Statistics

- Overall **88** publications
  - *Book*   : **1**
  - *Book chapter*   : **1**
  - *Journals*   : **27**
  - *Conference proceedings* : **32**
  - *Conference announcements* : **19**
  - *Other publications*   :   **8**
- Total citations   : **180**
- h-index   : **8**
- i10-index   : **6**

Complete Publication List

PhD Thesis

Fotis E. Psomopoulos: "*Parallel data mining and data analysis algorithms in Grid Computing and applications in Bioinformatics*", Dept. of Electrical and Computer Engineering, Faculty of Engineering, Aristotle University of Thessaloniki, July 2010, pages 184 (*in Greek*).

Book author

Sonja Bezjak, April Clyburne-Sherin, Philipp Conzett, Pedro L. Fernandes, Edit Görögh, Kerstin Helbig, Bianca Kramer, Ignasi Labastida, Kyle Niemeyer, **Fotis E. Psomopoulos**, Tony Ross-Hellauer, René Schneider, Jon Tennant, Ellen Verbakel, *The Open Science Training Handbook*, (https://book.fosteropenscience.eu), 2018.

Book Chapter

F. E. Psomopoulos and P. A. Mitkas: *Data Mining in Proteomics using Grid Computing, Handbook of Research on Computational Grid Technologies for LifeSciences*, Biomedicine and Healthcare, Editor: Mario Cannataro, Laboratory of Bioinformatics, University Magna Græcia of Catanzaro, 88100 Catanzaro, Italy, 2009, (chapter 13, pp. 245-267), UK: IGI Global.

2019   1.   Lamprecht, Anna-Lena, Garcia, Leyla, Kuzak, Mateusz, Martinez, Carlos, Arcila, Ricardo, Martin Del Pico, Eva, Dominguez Del Angel, Victoria, van de Sandt, Stephanie, Ison, Jon, Martinez, Paula Andrea, McQuilton, Peter, Valencia, Alfonso, Harrow, Jennifer, **Psomopoulos, Fotis**, Gelpi, Josep Ll, Chue Hong, Neil, Goble, Carole, Capella-Gutierrez, Salvador, "*Towards FAIR principles for research software*", Data Science, 2019, https://doi.org/10.3233/DS-190026

2.   Kuzak, M., Harrow, J., Andrea Martinez, P., **Psomopoulos, F.**, & Via, A. (2019). "*ELIXIR Europe on the Road to Sustainable Research Software*". Biodiversity Information Science and Standards, 3, e37677. https://doi.org/10.3897/biss.3.37677

3.   F.F.Parlapani, S.Michailidou, D.A.Anagnostopoulos, S.Koromilas, K.Kios, K.Pasentsis, **F.Psomopoulos**, A.Argiriou, S.A.Haroutounian, I.S.Boziaris, "*Bacterial communities and potential spoilage markers of whole blue crab (Callinectes sapidus) stored under commercial simulated conditions*", Food Microbiology, 82, 325–333. https://doi.org/10.1016/j.fm.2019.03.011

4.   Kintsakis, A. M., **Psomopoulos, F. E.**, & Mitkas, P. A., "*Reinforcement Learning based scheduling in a workflow management system*", Engineering Applications of Artificial Intelligence, 81, 94–106. https://doi.org/10.1016/j.engappai.2019.02.013

5.   Agathangelidis, A., **Psomopoulos, F.**, & Stamatopoulos, K., "*Stereotyped B Cell Receptor Immunoglobulins in B Cell Lymphomas*", Methods in Molecular Biology: "Lymphoma: Methods and Protocols", 139–155. https://doi.org/10.1007/978-1-4939-9151-8_7

6.   Wu, M., **Psomopoulos, F.**, Khalsa, S. J., & de Waard, A. "*Data Discovery Paradigms: User Requirements and Recommendations for Data Repositories*", Data Science Journal, 18(1), 13. https://doi.org/10.5334/dsj-2019-003

2018   7.   Nikos Papakonstantinou, Stavroula Ntoufa, Maria Tsagiopoulou, Theodoros Moysiadis, Sujata Bhoi, Andigoni Malousi, **Fotis Psomopoulos**, Larry Mansouri, Stamatia Laidou, Despoina Papazoglou, Maria Gounari, Konstantinos Pasentsis, Karla Plevova, Venera Kuci-Emruli, Marti Duran-Ferrer, Zadie Davis Sara Ek, Davide Rossi, Gianluca Gaidano, Matthias Ritgen, David Oscier, Niki Stavroyianni, Sarka Pospisilova, Frederic Davi, Paolo Ghia, Anastasia Hadzidimitriou, Chrysoula Belessi, Jose I Martin-Subero, Christiane Pott, Richard Rosenquist, Kostas Stamatopoulos, "*Integrated epigenomic and transcriptomic analysis reveals TP63 as a novel player in clinically aggressive chronic lymphocytic leukemia*", International Journal of Cancer, 0(ja), https://doi.org/10.1002/ijc.31999

8.   Parlapani, F. F., Michailidou, S., Anagnostopoulos, D. A., Sakellariou, A. K., Pasentsis, K., **Psomopoulos,** F., Boziaris, I. S., "*Microbial spoilage investigation of thawed common cuttlefish (Sepia officinalis) stored at 2 °C using next generation sequencing and volatilome analysis*", Food Microbiology, 76, 518–525, 2018. doi: 10.1016/j.fm.2018.08.004 (*Impact Factor: 4.384 / 2017*).

9.   Kathleen Gregory, Siri Jodha Khalsa, William K. Michener, **Fotis E. Psomopoulos**, Anita de Waard, Mingfang Wu, "*Eleven Quick Tips for Finding Research Data*", PLOS Computational Biology, 14(4), 1–7, 2018. doi: 10.1371/journal.pcbi.1006038 (*Impact Factor: 4.587 / 2015*).

2017   10.   A. M. Kintsakis, **F. E. Psomopoulos**, A. L. Symeonidis, and P. A. Mitkas, "*Hermes: seamless delivery of containerized bioinformatics workflows in hybrid cloud (HTC) environments,*" SoftwareX, vol. 6, p. 0-7, 2017. doi:10.1016/j.softx.2017.07.007

11. A. Kalivas, I. Ganopoulos, **F. Psomopoulos**, I. Grigoriadis, A. Xanthopoulou, E. Hatzigiannakis, M. Osathanunkul, A. Tsaftaris, and P. Madesis, "*Comparative metagenomics reveals alterations in the soil bacterial community driven by n-fertilizer and amino 16® application in lettuce,*" Genomics Data, vol. 14, pp. 14-17, 2017. doi: 10.1016/j.gdata.2017.07.013 (*Impact Factor: 0.228 / 2013*).

12. Cezary Zieliński, Maciej Stefańczyk, Tomasz Kornuta, Maksym Figat, Wojciech Dudek, Wojciech Szynkiewicz, Włodzimierz Kasprzak, Jan Figat, Marcin Szlenk, Tomasz Winiarski, Konrad Banachowicz, Teresa Zielińska, Emmanouil G. Tsardoulias, Andreas L. Symeonidis, **Fotis E. Psomopoulos**, Athanassios M. Kintsakis, Pericles A. Mitkas, Aristeidis Thallas, Sofia E. Reppou, George T. Karagiannis, Konstantinos Panayiotou, Vincent Prunet, Manuel Serrano, Jean-Pierre Merlet, Stratos Arampatzis, Alexandros Giokas, Lazaros Penteridis, Ilias Trochidis, David Daney, Miren Iturburu: "*Variable structure robot control systems: The RAPP approach*", Robotics and Autonomous Systems, Vol. 94, pp. 226–244, 2017, doi: 10.1016/j.robot.2017.05.002 (*Impact Factor: 1.618 / 2015*)

13. A. Xanthopoulou, I. Ganopoulos, **F. Psomopoulos**, M. Manioudaki, T. Moysiadis, A. Kapazoglou, M. Osathanunkul, S. Michailidou, A. Kalivas, A. Tsaftaris, I. Nianiou-Obeidat, and P. Madesis: "*De novo comparative transcriptome analysis of genes involved in fruit morphology of pumpkin cultivars with extreme size difference and development of est-ssr markers*", Gene, 2017. doi: 10.1016/j.gene.2017.04.035 (*Impact Factor: 2.319 / 2015*).

14. **Fotis E. Psomopoulos**, Dimitrios M. Vitsios, Shakuntala Baichoo and Christos A. Ouzounis: "*BioPAXViz: a cytoscape application for the visual exploration of metabolic pathway evolution*", Bioinformatics, 2017, doi: 10.1093/bioinformatics/btw813 (*Impact Factor: 5.766 / 2015*).

2016 15. A. M. Kintsakis, **F. E. Psomopoulos**, and P. A. Mitkas: "*Data-aware optimization of bioinformatics workflows in hybrid clouds*", Journal of Big Data, 3:20, 2016, pages 26, doi: 10.1186/s40537-016-0055-2.

16. A. Zambounis, **F. E. Psomopoulos**, I. Ganopoulos, E. Avramidou, F. A. Aravanopoulos, A. Tsaftaris and P. Madesis: "*In silico analysis of the LRR receptor-like serine threonine kinases subfamily in Morus notabilis*", Plant Omics Journal, 9(5), 2016, pp. 319-326, doi: 10.21475/poj.09.05.16.pne126 (*Impact Factor: 0.777 / 2013*).

17. E. G. Tsardoulias, A. M. Kintsakis, K. Panayiotou, A. G. Thallas, S. E. Reppou, G. G. Karagiannis, M. Iturburu, S. Arampatzis, C. Zielinski, V. Prunet, **F. E. Psomopoulos**, A. L. Symeonidis and P. A. Mitkas: "*Towards an integrated robotics architecture for social inclusion – The RAPP paradigm*", Journal of Cognitive Systems Research, 2016, pages 12, doi: 10.1016/j.cogsys.2016.08.004 (*Impact Factor: 1.890 / 2015*).

18. S. E. Reppou, E. G. Tsardoulias, A. M. Kintsakis, K. Panayiotou, A. L. Symeonidis, P. A. Mitkas, **F. E. Psomopoulos**, C. Zielinski, V. Prunet, M. Gautier, J. P. Merlet, M. Iturburu, S. Arampatzis: "*RAPP: A robotic-oriented ecosystem for delivering smart user empowering applications for older people*", International Journal of Social Robotics, 2016, pages 15, doi: 10.1007/s12369-016-0361-z (*Impact Factor: 1.407 / 2013*).

19. M. Chatzidimopoulos, **F. Psomopoulos**, E. E. Malandrakis, I. Ganopoulos, P. Madesis, E. K. Vellios and P. Drogoudi: "*Comparative genomics of Botrytis cinerea strains with differential multi-drug resistance*", Data Report, Front. Plant Sci. 7:554, 2016, pages 3, doi: 10.3389/fpls.2016.00554 (*Impact Factor: 4.495 / 2013*).

20. A. Xanthopoulou, **F. E. Psomopoulos**, I. Ganopoulos, M. Manioudaki, A. Tsaftaris, I. Nianiou-Obeidat, P. Madesis: "*De novo transcriptome assembly of two contrasting pumpkin cultivars*", Genomics Data 7 (2016) 200–201, pages 2, doi: 10.1016/j.gdata.2016.01.006 (*Impact Factor: 0.228 / 2013*).

2015 21. Duarte A. M. S., **Psomopoulos F. E.**, Blanchet C., Bonvin A. M. J. J., Corpas M., Franc A., Jimenez R. C., de Lucas J. M., Nyrönen T., Sipos G. and Suhr S. B.: "*Future opportunities and trends for e-infrastructures and life sciences: going beyond the grid to enable life science data analysis*", Frontiers in Genetics, Vol. 6, No. 197 (2015), pages 7, doi: 10.3389/fgene.2015.00197.

22. Dimitrios M. Vitsios, **Fotis E. Psomopoulos**, Pericles A. Mitkas and Christos A. Ouzounis: "*Inference of pathway decomposition across multiple species through gene clustering*", International Journal on Artificial Intelligence Tools, Volume No. 24, Issue No. 1 (2015), pages 25, doi: 10.1142/S0218213015400035 (*Impact Factor: 0.393 / 2015*).

2013 23. **F. E. Psomopoulos**, Pericles A. Mitkas, Christos A. Ouzounis: "*Detection of genomic idiosyncrasies using fuzzy phylogenetic profiles*", PLoS ONE, Vol 8, issue 1 (2013) pp. 1-16, e52854. doi: 10.1371/journal.pone.0052854 (*Impact Factor: 3.234 / 2015*).

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