# **Permanent Address**

Koufokosta 2, 35131 Lamia, GRC

# CURRENT POSITION

University of Thessaly Post Doctoral Researcher in Computer Science and Biomedical Informatics	Lamia, GRC February 2024–Current
– Advisor: Tasoulis Sotiris	v
Education	
University of Thessaly	Lamia, GRC
<ul> <li>Advisor: Tasoulis Sotiris</li> </ul>	2019-2023
– Thesis: "Design and Implementation of Machine Learning Algorithms in Big Biomedia	cal Data"
University of Patras	Patras, GRC
<ul> <li>Bachelor with Integrated master in Computer Engineering and Informatics, Degree: 6.70</li> <li>Thesis: "Knowledge mining and visualization of molecular biology networks"</li> </ul>	2009 -2019
EXPERIENCE	
University of Thessaly	Lamia, GRC
Post Doctoral Researcher in Computer Science and Biomedical Informatics	February 2024–Current
– Advisor: Tasoulis Sotiris	
- Title: "Machine Learning Algorithms in Big Data"	
University of Thessaly	Lamia, GRC

University of Thessaly

Role: Researcher June 2024–Current - "Bridging big omic, genetic and medical data for Precision Medicine implementation in Greece (project code TAEDR-0539180)"

Funded by the European Union – NextGenerationEU through Greece 2.0—National Recovery and Resilience Plan, under the call "Flagship actions in interdisciplinary scientific fields with a special focus on the productive fabric" (ID 16618).

Institute for Bio-economy and Agri-technology iBO/CERTH	Lamia, GRC
Role: Researcher	December 2023–Current

- "Personalized Rehabilitation Via Novel AI Patient Stratification Strategies (PREPARE)"
- Funded by the European Union. UK participants in Horizon Europe Project PREPARE are supported by UKRI grant number 10086219 (Trilateral Research).

Institute for Bio-economy and	nd Agri-technology	iBO/CERTH
Role: Researcher		

– "uPrevent"

Lamia, GRC

August 2021–October 2023

- Co-funded by the European Union and the European Regional Development Fund under the Single Action for State Aid for Research, Technological Development & Innovation "RESEARCH-CREATE-INNOVATE".

#### Signal Ocean SMPC

Role: Researcher

- "Design and implementation of machine learning algorithms for the prediction and analysis of the course of transport vessels"
- Funded by the company Signal Ocean SMPC.

#### University of Thessaly

Role: Researcher

- "ParICT\_CENG: Improving ICT research infrastructures in Central Greece for processing large volumes of data from sensor streams, multimedia and complex mathematical simulation models"
- Funded under the NSRF 2014-2020, co-financed by Greece and the European Union (European Regional Development Fund).

#### Signal Ocean SMPC

Role: Researcher

- "Design and implementation of machine learning algorithms for the prediction and analysis of the course of transport vessels"
- Funded by the company Signal Ocean SMPC.

# Institute for Bio-economy and Agri-technology iBO/CERTH

Role: Researcher

- "Advanced personalised, multi-scale computer models preventing OsteoArthritis,"
- Funded by European Community's H2020 Programme, under grant agreement Nr. 777159.

## PUBLICATIONS

- S. K. Tasoulis, P. Anagnostou, A. G. Vrahatis, S. V. Georgakopoulos, and V. P. Plagianakos, "Boosting neural network performance for high dimensional data through random projections," *Available at SSRN* 4991467,
- P. Barmpas, P. Anagnostou, S. K. Tasoulis, S. V. Georgakopoulos, and V. P. Plagianakos, "HCER: Hierarchical clustering-ensemble regressor," in *Engineering Applications of Neural Networks*, L. Iliadis, I. Maglogiannis, A. Papaleonidas, E. Pimenidis, and C. Jayne, Eds., Cham: Springer Nature Switzerland, 2024, pp. 369–378, ISBN: 978-3-031-62495-7.
- [3] P. Anagnostou, P. Barmpas, S. K. Tasoulis, S. V. Georgakopoulos, and V. P. Plagianakos, "Neural networks voting for projection based ensemble classifiers," in 2023 IEEE International Conference on Big Data (BigData), IEEE, 2023, pp. 4567–4574.
- [4] P. Anagnostou, N. G. Pavlidis, and S. K. Tasoulis, "Ensemble clustering for boundary detection in high-dimensional data," in *Proceedings of the 9th Annual Conference on Machine Learning, Optimization* and Data Science (LOD), Lake District, UK: Springer, 2023.
- [5] P. Anagnostou, S. Tasoulis, V. P. Plagianakos, and D. Tasoulis, "HiPart: Hierarchical divisive clustering toolbox," *Journal of Open Source Software*, vol. 8, no. 84, p. 5024, 2023.
- [6] P. C. Theocharopoulos, P. Anagnostou, A. Tsoukala, S. V. Georgakopoulos, S. K. Tasoulis, and V. P. Plagianakos, "Detection of fake generated scientific abstracts," in 2023 IEEE Ninth International Conference on Big Data Computing Service and Applications (BigDataService), 2023, pp. 33–39.

Lamia, GRC March 2022–September 2023

Lamia, GRC

March 2021–December 2021

Lamia, GRC March 2016–April 2021

Lamia, GRC

February 2023–October 2023

- [7] P. Barmpas, S. Tasoulis, A. G. Vrahatis, S. V. Georgakopoulos, P. Anagnostou, M. Prina, J. L. Ayuso-Mateos, J. Bickenbach, I. Bayes, M. Bobak, *et al.*, "A divisive hierarchical clustering methodology for enhancing the ensemble prediction power in large scale population studies: The athlos project," *Health Information Science and Systems*, vol. 10, no. 1, p. 6, 2022.
- [8] P. Anagnostou, S. Tasoulis, A. G. Vrahatis, S. Georgakopoulos, M. Prina, J. L. Ayuso-Mateos, J. Bickenbach, I. Bayes-Marin, F. F. Caballero, L. Egea-Cortés, et al., "Enhancing the human health status prediction: The athlos project," *Applied Artificial Intelligence*, vol. 35, no. 11, pp. 834–856, 2021.
- [9] P. Anagnostou, P. Barbas, A. G. Vrahatis, and S. K. Tasoulis, "Approximate knn classification for biomedical data," in 2020 IEEE International Conference on Big Data (Big Data), IEEE, 2020, pp. 3602–3607.

## INVITED TALKS

• N. G. Pavlidis, **P. Anagnostou**, and S. Tasoulis, "Dimensionality reduction and clustering", in Proceedings 35th Panhellenic & 1st International Statistics Conference, Athens, Greece, 2023. Co-presenters: Pavlidis, Nicos G., and Tasoulis, Sotiris.

## Referee Service

- Reviewer on, the journal of Pattern Recognition Letters (PRLetters) the journal of Future generation computer systems (FGCS), the Journal of Open-Source Software (JOSS) and the journal of Neural computing & applications (NCAA).
- Program Committee Member, IEEE Symposium Series on Computational Intelligence (IEEE SSCI), 2024
- Program Committee Member, IEEE Congress on Evolutionary Computation (IEEE CEC), 2024
- Program Committee Member, IEEE International Conference on Big Data (IEEE BigData), 2021 and 2023

## TEACHING

- Instructor at Department of Computer Science and Biomedical Informatics, University of Thessaly Fall 2024 Microprocessors (DIB U 206)
- Part of the program "Acquisition of Academic Teaching Experience for New PhD Holders" co-funded by the European Union and National Resources.
- Instructor at Department of Computer Science and Biomedical Informatics, University of Thessaly Fall 2024 Internet Application Technologies (DIB U 182)
- Part of the program "Acquisition of Academic Teaching Experience for New PhD Holders" co-funded by the European Union and National Resources.
- Instructor at Department of Computer Science and Biomedical Informatics, University of Thessaly Spring 2024 Embedded Computer Systems in Biomedical Engineering (DIB U 211)
- Part of the program "Acquisition of Academic Teaching Experience for New PhD Holders" co-funded by the European Union and National Resources.
- Instructor at Department of Computer Science and Biomedical Informatics, University of Thessaly Ubiquitous Computing Applications Programming (DIB U 235)
- Part of the program "Acquisition of Academic Teaching Experience for New PhD Holders" co-funded by the European Union and National Resources.

# TECHNICAL SKILLS

- Programming Languages:
  - Object Oriented: C++, Java
  - **Procedural:** C, Pascal
  - Scripting: R, Python, Bash, PHP
  - Other: Latex, Matlab, XML, HTML5, CSS, MySQL, Prolog
- Operating Systems:
  - GNU/Linux. Proficient in using CLI and GUI.
  - Microsoft Windows
  - Android. Application level development.
- Version Control System: Git
- Build automation tool: Apache Maven

## LANGUAGES

- Greek: Native Language
- English: State Certificate of Language Proficiency (KPG), Level B2