

PERSONAL INFORMATION

Ioannis Tamposis



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Sex Male | Date of birth 28/01/1981 | Nationality Greek

WORK EXPERIENCE

20/09/2005–Present

Computer systems designer and analyst

OraSys New Technologies A.E., Larisa (Greece)  
 Since 2005 I have been working in OraSys, as a software engineering, in the fields of information systems analysis and design, application development, IT Project planning and web design. I have also been responsible for the development of programs, such as payroll and pension management systems, budget and financial management systems Fiscal Audits and web portals. Last years, my focus area is the design and implementation of advanced healthcare IT solutions. My research interests include Software Engineering, Web Services, Web Engineering, Web Usage Mining, Business Systems, information and communication technology, Medical Industry Standards (HL7, DICOM and IHE), Web and Mobile Information Systems including their applications in the fields of industry and health.

01/10/2021–12/05/2023

Bioinformatician

University of Thessaly, Larisa (Greece)

Participation in the development of innovative genomic methods for the management of kidney cancer diseases and design of Bioinformatics analysis with appropriate software tools and development of computer tools (bio) statistics. (Project code T2EDK-03079, RESEARCH – CREATE - INNOVATE).

01/07/2021–19/05/2023

Bioinformatician

University of Thessaly, Larisa (Greece)

Participation in the development of innovative genomic methods for the rapid identification of rice microbiomes and design of Bioinformatics analysis with appropriate software tools and development of computer tools (bio) statistics. (Project Code OPS 5045902).

01/11/2018–03/06/2021

BioMedical Technician

University of Thessaly, Larisa (Greece)

Management of the implementation of the project, which has been included in the Joint Action of State Aid for Research, Technological Development and Innovation " RESEARCH – CREATE - INNOVATE " under T1EDK-03264 in IT, equipment, applications, infrastructures and interconnections between information systems.

06/10/2020–31/01/2021

Bioinformatics Technician

University of Thessaly, Lamia (Greece)

Bioinformatics Analysis for the Greek Research Infrastructure ELIXIR-GR for data management and analysis in the Life Sciences (project code OPS 5002780).

01/09/2019–31/12/2019

Bioinformatics Technician

University of Thessaly, Lamia (Greece)

Bioinformatics Analysis for the Greek Research Infrastructure ELIXIR-GR for data management and analysis in the Life Sciences (project code OPS 5002780).

15/03/2018–14/06/2018

Bioinformatics Technician

University of Thessaly, Lamia (Greece)

Bioinformatics Analysis for the Greek Research Infrastructure ELIXIR-GR for data management and

analysis in the Life Sciences (project code OPS 5002780).

01/01/2011–31/12/2011

### Web Developer

Technological Education Institute of Piraeus, Athens (Greece)

Checking and correcting the website of the Panhellenic Union of Young Farmers (P.E.N.A) within the project (code 80127): SCIENTIFIC SUPPORT YOUNG FARMERS.

## EDUCATION EXPERIENCE

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04/10/2021–28/02/2022

### Academic Staff

University of Thessaly, Department of Environment, Larisa (Greece)

Informatics and Databases (Theory / Laboratory) (BSc Level).

22/01/2021–30/06/2021

### Teacher

2o SDE Larisas (Prison), Larisa (Greece)

Teaching the subject of Informatics.

26/10/2016–30/06/2017

### Teacher

IEK OAED, Lamia (Greece)

Responsible for teaching the lessons Java and Databases in the class MULTIMEDIA- WEB DESIGNER - DEVELOPER/VIDEO GAMES.

22/11/2015–30/06/2016

### Teacher

1<sup>st</sup> IIEK, Larissa (Greece)

Responsible for teaching the lessons Web Design and Development and Operating Systems

08/09/2008–23/10/2008

### Training Assistant

Training Committee Larissa, Larissa (Greece)

"EDUCATIONAL TRAINING PROGRAM FOR THE USE OF INFORMATION TECHNOLOGIES AND COMMUNICATIONS IN EDUCATION".

05/02/2008–28/03/2008

### Training Assistant

Training Committee Larissa, Larissa (Greece)

"EDUCATIONAL TRAINING PROGRAM FOR THE USE OF INFORMATION TECHNOLOGIES AND COMMUNICATIONS IN EDUCATION".

15/05/2006–15/07/2006

### Training Assistant

Training Committee Larissa, Larissa (Greece)

"EDUCATIONAL TRAINING PROGRAM FOR THE USE OF INFORMATION TECHNOLOGIES AND COMMUNICATIONS IN EDUCATION".

20/02/2004–28/02/2006

### Teacher

CYBERNET, Larissa (Greece)

Responsible for teaching ECDL and computer science lessons in students.

## EDUCATION AND TRAINING

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07/03/2021–07/03/2023

### Postdoc in Bioinformatics

University of Thessaly, Lamia (Greece)

24/11/2016 – 23/02/2021

### PhD in Bioinformatics

University of Thessaly, Lamia (Greece)

**MSc, Informatics and Computational Biomedicine**

University of Thessaly, Lamia (Greece)

10/10/2008–20/07/2012

**BSc, Computer Science**

Hellenic Open University (Greece)

10/10/2001–18/06/2002

**Teleinformatics technician (Internet)**

I.I.E.K DELTA, Thessaloniki (Greece)

12/02/2000–18/06/2001

**Specialist in Multimedia Information Technology (Multimedia)**

I.I.E.K DELTA, Thessaloniki (Greece)

**PERSONAL SKILLS**

Mother tongue(s) Greek

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2

NOCN, LanguageCert

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user  
Common European Framework of Reference for Languages

Communications skills

- good communication and social skills acquired through my experience as manager of two IT projects
- Collaborative

Organisational / managerial skills

management skills of a small group of 5 people for the implementation of two IT projects

**ADDITIONAL INFORMATION**

Certifications

Registry of Certified Adult Trainers of EOPPEP (Registration Number EB29798)

Registry of Certified Adult Trainers of OAED, (Registration Number 56633)

Certified Data Protection Officer by Aristotle Certification Training & Assessment

Publications

Tamposis, I.A., Tsougos, I., Karatzas, A., Vassiou, K., Vlychou, M., and Tzortzis, V. (2021) PCaGuard: A Software Platform to Support optimal Management of Prostate Cancer, Applied Clinical Informatics.

Tamposis, I.A., Sarantopoulou D., Theodoropoulou M.C., Stasi E.A., Kontou, P.I., Tsirigos, K.D., and Bagos, P.G. (2021) Hidden Neural Networks for transmembrane protein topology prediction.

Roumia, A.F., Tsirigos, K.D., Theodoropoulou, M.C., Tamposis, I.A., Hamodrakas, S.J., and Bagos, P.G. (2021) OMPdb: A global hub of beta-barrel outer membrane proteins, Front. Bioinform.

Tamposis, I.A., Tsirigos, K.D., Theodoropoulou M.C., Kontou, P.I., Tsaousis G.N., Sarantopoulou D., Litou Z.I., and Bagos, P.G. (2019) JUCHMME: A Java Utility for Class Hidden Markov Models and Extensions for biological sequence analysis, BMC bioinformatics, 7.

Tamposis, I.A., Tsirigos, K.D., Theodoropoulou M.C., Kontou, P.I., and Bagos, P.G. (2018) Semi-supervised learning of Hidden Markov Models for biological sequence analysis, BMC bioinformatics, 7.

Tamposis, I.A., Theodoropoulou, M.C., Tsirigos, K.D. and Bagos, P.G. (2018) Extending Hidden Markov Models to allow conditioning on previous observations, Journal of Bioinformatics and Computational Biology.

Tamposis, I., Pouliakis, A., Fezoulidis, I., Karakitsos, P. (2015). Mobile Platforms Supporting Health

Professionals Need, Technical Requirements and Applications. In A. Moumtzoglou & A. Kastania (Eds.), A. M-Health Innovations for Patient-Centered Care (pp. 91-114). Hershey, PA.: IGI Global.

Tamposis, I., Bountris, P., Pouliakis, A., Iordanidis, E., Tzortzis, L., Haritou, M., Karakitsos, P., & Koutsouris, D. (2014). HPVGuard: A Software Platform to Support Management and Prognosis of Cervical Cancer. Paper presented at the MOBIHEALTH 4th International Conference on Wireless Mobile Communication and Healthcare - "Transforming healthcare through innovations in mobile and wireless technologies.

Tamposis, I., Iordanidis, E., Tzortzis, L., & Papachatzis, S. (2014). OraHealthX ImaginX A next generation cost effective medical imaging workflow management platform. Paper presented at the MOBIHEALTH 4th International Conference on Wireless Mobile Communication and Healthcare - "Transforming healthcare through innovations in mobile and wireless technologies.

## Projects

### **OASIS – Genomic analysis of Agri-Food and Livestock Interest Organizations in Central Greece**

*May 2020 – May 2023*

Through next generation sequencing analysis, Genomic analysis of Agro-food and Livestock Interest Organizations will be carried out in Central Greece.

Competitiveness, Entrepreneurship and Innovation (Project Code OPS 5045902)

### **PUZL (Production of Hops Beer Analysis) – Molecular identification and utilization of indigenous hop varieties for the production of high-quality beers**

*January 2020 – December 2022*

The main goal of the proposed investment is the production for the first time in Greece of beers with local aroma and taste that will utilize the indigenous hop varieties.

CENTRAL GREECE 2014 – 2020 (Project Code: STEP1-0026139)

### **RenArray – A decision support system based on advanced clinical theranostics protocols for the cost-effective, personalized management of kidney Cancer.**

*May 2020 – May 2023*

The targeted genes will be studied through next generation sequencing analysis in patients and controls. Associations of genetic alterations of the specific genes and clinicohistological data aim to the development of an algorithm applicable to every day clinical practice towards early diagnosis and prognosis of renal cell cancer.

RESEARCH – CREATE - INNOVATE (Project code T2EDK-03079)

### **PCaGuard – A decision support system based on advanced clinical theranostics protocols for the cost-effective, personalised management of Prostate Cancer**

*June 2018 – June 2021*

Development and clinical implementation of new diagnostic protocols using the new technology (mpMRI - US fusion) for timely and accurate diagnosis and therefore personalized treatment of prostate cancer.

### **MODELHealth – Modular Deep Learning Platform for Healthcare**

*September 2018 – September 2020*

A cloud platform that facilitates the application of Machine Learning methods, towards processing health data, in order to support clinical work or/and the administrative decision making process, in all levels of health services provision.

### **oraSys Imaging – Medical Imaging**

*April 2013 – December 2015*

ImaginX is a software platform supporting medical imaging workflow management and providing reduced costs and user effort. Incorporates RIS / PACS traditional functionality to store the results of medical imaging examinations, patient medical history and non-medical data such as demographics.

### **HPV Guard - A Software Platform to Support Management and Prognosis of Cervical Cancer**

*April 2013 – November 2015*

HPVGuard is a software platform supporting CxCa control. The system stores the results of medical examinations such as Pap test and HPV tests, woman's medical history and non-medical data such as demographics. Moreover, it integrates artificial intelligence models that combine data from different medical examinations and produce an estimation of women's risk to develop CxCa.

In this way, the HPVGuard platform serves as an integrated clinical decision support system for the

management and prognosis of CxCa.

The application of HPVGuard proved that computerized systems supporting women control can be of extreme value. This is nowadays feasible via the use of inexpensive tools and can be made available to the end users as a web service on standard computers as well as on a variety of mobile terminals.

### **Smart Healthcare Cards Software Platform**

*June 2012 – September 2012*

The project involved the design and development of a Java Applet for communication with Smart Cards using javax.smartcardio and Javascript.

The smart cards are used to certify patient and healthcare provider IDs. In particular, the system supports two groups of smart-card holders.

- Patient Smart Card (containing patient social security information)
- Healthcare Provider SmartCard (used by healthcare providers for verifying secure access to social security information systems)

The application embeds the use of smart cards and provides healthcare providers immediate and secure access to information systems of social security organizations and to other national records such as National Social Security Record (AMKA) and e-Prescription.

Core System Technologies:

- Oracle APEX

### **OPAD Integrated Information System (OPS OPAD)**

*June 2007 – May 2012*

An integrated Software Platform that supports the operation of the former National Organization of Public Servants' Healthcare (OPAD) since 2003. OPAD was comprised of a central agency (headquarters) and more than 50 regional offices (ASP Model).

The OPAD IT Platform (OPS OPAD) consists of the following basic modules:

- Budget Management (Revenues – Expenditure)
- Insurance Registry of the Greek public servants
- Organization Personnel & Payroll Management
- Organization Pension Management
- Mail / Correspondence Registry

Core System Technologies:

- Oracle Database 10gR2 Enterprise Edition
- Oracle Forms & Reports Builder

### **Fiscal Audits Software Platform**

*April 2009 – September 2010*

An integrated information system that fully monitors and manages Fiscal Audits by competent bodies of the GAO and the EU, for monitoring and evaluating the performance of physical and financial progress of the Operational Programs and Actions that are funded by the European Union funds (NSRF 2000-2006, 2007-2013, 2014-2020).

Core System Technologies:

- Oracle Database 10gR2 Enterprise Edition
- Oracle Forms/Reports Builder
- Oracle BI Publisher

### **ErgoDesign Multimedia CD – ROM**

*March 2007 – April 2007*

Construction of CD - Rom application, corporate presentation and promotion of ErgoDesign products.

### **BDLS Multimedia CD-ROM**

*September 2004*

Construction of CD - Rom application, corporate presentation and projection of the products of the furniture factory BDLS.

## **Conferences**

### **Hellenic Society for Computational Biology & Bioinformatics (HSCBB19)**

*8/12/2019 – 10/18/2019, FORTH/ ICE-HT, Patra*

Presentation and award of our work JUCHMME: a Java Utility for Class Hidden Markov Models and Extensions for biological sequence analysis.

**Hellenic Society for Computational Biology & Bioinformatics (HSCBB17)**

11/10/2017 – 13/10/2017, *Hellenic Pasteur Institute, Athens*

Presentation of the results of our work Extending Hidden Markov Models to allow conditioning on previous observations and attend the workshop *In silico functional investigations of miRNAs*.

**Scientific Seminar on Computational Tomography**

15/03/2015, *NOVOTEL HOTEL, Αθήνα*

Participating with a presentation on the technologies and benefits of information systems from the storage and management of the medical image.

**1st ICT SECURITY WORLD Annual Conference**

04/03/2015, *National Centre for Public Administration and Local Government, Athens*

Follow-up of the conference on the security strategies, technologies and methodologies used in order to secure the Digital Information and Communication Systems in Businesses, Banks and Public Bodies of our country.

**19th Panhellenic Radiological Congress**

19/12/2014, *Caravel Hotel, Athens*

Follow-up of the Congress on the evolution and needs of Radiology.

**1st GREEK INNOVATION FORUM**

19/12/2014 – 21/12/2014, *Hilton Hotel, Athens*

Follow-up and presentation of the innovative HPVGuard research system co-funded by the General Secretariat for Research and Technology.

**4th International Conference on Wireless Mobile Communication and Healthcare - "Transforming healthcare through innovations in mobile and wireless technologies"**

03/11/2014 – 05/11/2014, *Athens*

Follow-up, presentation of HPVGuard and ImaginX projects and radio interview