



Athanassios I. Hatzis (PhD) – Curriculum Vitae

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PROFILE

Dr. Athanassios I. Hatzis has been active in the field of NoSQL databases and semantic web since 2010. He pioneered and implemented associative, semiotic, hypergraph data modeling framework with a mission to build powerful, meaningful relationships easily. For this purpose he founded HEALIS to offer consultation services and training on the use of next generation business intelligence systems and software applications. Athanassios has been developing programs since the era of Amstrad CPC 464. His passion for coding led him to research and development for a period of ten years in top UK universities. He has a strong background in clinical applications of speech technology and was the initiator and central figure in a UK NHS and EU FP5 funded research projects that were based on his PhD thesis. In the past Athanassios has been a Health IT Managing Director in the Department of Neurosurgery, University of Athens for four years. He modernized the hospital clinic with a fully operational EMR, clinical decision support systems for chronic neurological disorders, surgical teleconferencing and out-of-hospital clinical monitoring. He has published both in Speech Technology and Neurotechnology sectors in peer reviewed journals and conferences, he posts articles frequently in several IT blogs and social networks and he has released two open-source projects MEDILIG EMR and Wolfram Mathematica DBAPI.

PROFESSIONAL EXPERIENCE

- **Founder / Freelancer (06/2009 -)**
- **HEALIS - Healthy Information Systems/Services, Athens, Greece**
- ✓ An international alliance of independent professionals and consultants in the emerging field of data science. HEALIS promotes open source information technology systems and services,
- **Health Informatics Manager / Research Associate (09/2005 – 04/2009)**
- **Hellenic Neurosurgical Research Centre “Prof. Petros S. Kokkalis” - Evangelismos General Hospital**
- **Dept. of Neurosurgery, University of Athens / School of Medicine, Athens, Greece**
- ✓ Assured funds of 250000€ in a three years period thanks to medical journal publications, conference papers and promotion strategy for the Hellenic Neurosurgical Research Centre that included a sponsorship with HOL telecommunication provider. At the same time Athanassios was responsible for the management and support of IT services and the planning of their expansion.
- ✓ Designed, implemented and managed the operation of an electronic medical record (EMR), tailored closely to the needs of the clinic. It was used on a daily basis with twenty users concurrently online.
- ✓ He also developed, tested and applied several specialized clinical databases that permitted health professionals, to measure the quality of data input, to check the continuous care process on chronic diseases such as spasticity, and to analyse data for results in conference papers for innovative research.
- ✓ The first clinic in the history of “Evangelismos” General Hospital and one of the few in Greek public hospitals with fully automated electronic medical record services, surgical teleconferencing, and secure remote access. This enabled health professionals to offer their patients quality of service and to decrease their time spent on administration.

- **Doctorate/Post-doctorate Research Associate (10/1994 – 09/2004)**
- **Dept. Computer Science (Research Grade 5/5) – Speech Technology Group - The University of Sheffield (U.K)**
- ✓ Based on his PhD Thesis and its successful continuation with NHS and EU funded projects, University of Sheffield, Department of Computer Science (UK assessment grade 5/5) founded CAST, a multidisciplinary group that is specialized in clinical applications of speech technology.
- ✓ Athanassios was a work-package leader, initiator, and central figure of OLP (Ortho-Logo-Paedia), European Community Quality of Life FP5 funded research project, (2,7M€-3years). OLP is a Clinical/Educational Information System in the field of speech pathology that assists the professionals in computer-based speech training.
- ✓ Principal Investigator of STARDUST (Speech Recognition for People with Severe Dysarthria), UK NHS-NEAT funded project (275000€-3years). STARDUST is a voice activated environmental control system.
- ✓ PhD Thesis - OLT (Optical-Logo-Therapy) speech training aid based on biofeedback to provide speech impaired clients with evaluative and directional real-time, audio-visual feedback for their articulation.

MILITARY SERVICE

- **Electronic Fire Commander (01/1992 – 10/1992)**
Greek Navy – He served at Kanaris destroyer, Souda base and Salamina base
- **First Year Naval Caset (09/1988 – 08/1989)**
Greek Navy – Greek Naval Academy for officers of the Greek Navy

EDUCATION

- **The University of Sheffield, Department of Computer Science, Sheffield, U.K (09/1995 – 09/ 1999)**
Doctorate (PhD) / Speech Technology (Department Research Grade 5/5)
- **The University of Edinburgh, Department of Artificial Intelligence, Edinburgh, U.K (09/1994 – 09/1995)**
Master (MSc) / Artificial Intelligence – Knowledge Based Systems (Dept. Research Grade 5*/5)
- **Southeastern College, Department of Computer Science, Athens, Greece (09/1989 – 06/1993)**
Bachelor (BSc) / Computer Science (3.23 / 4.0)
- **2nd Lyceum of Paleo Phaliro, Paleo Phaliro, Athens, Greece (09/1981 – 09/1987)**
- High School Certificate / (17.6 / 20)

ARTISTIC SKILLS

- **Byzantine music school of Glyfada Diocese, Athens, Greece (Approved by Ministry of Education) (09/2006 – 09/2009)**
Byzantine Music Diploma (Grade Excellent)
- **Piano music school of Tzenny Protopapa, (Approved by Ministry of Education) (09/1980 – 09/1994)**
Diploma in Classical Piano Performance (Grade – Excellent)

TECHNICAL SKILLS

Field of Expertise	Topics
Databases and Semantic Web	Data models/Serialization (Associative, ER, Document, Graph, EAV, RDF/OWL, TMDM, JSON, XML, HTML)
Applications of Speech Technology	Augmentative/Alternative Communication, Speech Therapy, Second Language Learning
Applications of IT in Health	Health Information Management, Health Care Decision-Making, Telemedicine
Software Development Areas	Software Applications
Programming Languages	Wolfram Language, Visual Basic, Visual C#, Tcl/Tk, Python, Java, Lisp, Prolog
Visual Analytics / Statistics / BI	Qlikview, Tableau, Wandora, Microsoft Excel, MATLAB, R Project, SPSS,
Speech-Signal processing	CSLU, Wavesurfer-Snack, HTK, SFS, Praat, Cool Edit, Wavelab, LabTutor AD Instruments
Databases	OrientDB, Neo4J, AllegroGraph, GraphDB, Intersystems Cache, Microsoft SQL Server/Access, Oracle
Operating systems	Windows, Unix/Linux, VirtualBox, VMWare
Professional Certificates	
Microsoft Training Certificate	15/6/2009 - Microsoft SQL Server Database (80h)
Microsoft Gold Certified (i-Learn)	15/6/2009 - Microsoft Visual Studio (Core Data Access, Core Web Applications) (50h)