

Georgios Chr. CHRISTODOULIS

PERSONAL INFORMATION

PLACE AND DATE OF BIRTH: Patras, Greece | 25 August 1990
ADDRESS: I.Sechou 2, 11524, Athens, Greece
PHONE: +30 697 85 03 372
EMAIL: gchristodoulis@gmail.com

EDUCATION

CURRENT | **Internship** (During Spring academic semester)
May 1st | Laboratoire Spécification et Vérification,
to | École Normale Supérieure de Cachan, France
July 18th | Thesis: "Petri-net unfolding of biological networks"

CURRENT | **Diploma** (5-year degree)
September 2008 | School of Electrical and Computer Engineering,
to (ESTIM) | National Technical University of Athens, Greece
September 2015 | Thesis: "Performance modeling and Prediction for the communication of parallel applications"
Thesis Committee: Prof Nektarios Koziris, Prof. Georgios Goumas
Majors: Computer Systems, Computer Software
Minors: Telecommunication Systems and Computer Networks, Electronics-Circuits-Materials

September 2005 | **General Lyceum** (Upper Secondary School)
June 2008 | 2nd General Experimental Lyceum of Athens, Greece

SCIENTIFIC INTERESTS

During my undergraduate studies I obtained a strong interest in the field of mathematics, logic and computer science. I am particularly interested in exploring applications of the above areas in the fields of biology, pharmacology and medicine. I am keen on continuing my academic coursework with a phd and then either a post-doctoral thesis or a research oriented occupation in industry.

NOTABLE ACADEMIC PROJECTS

9th semester | **Parallel Processing Systems**
Exhaustive Speedup-scalability testing on LU Decomposition, focussing on two architecturally different implementations. Analysis aims to correlate the effects of algorithmic characteristics to parallelization prospects. Developed using the OpenMP API in a team of 4 students.

9th semester | **Software Engineering**
Design and implementation of three fully functional servers (Billing, Blocking, Forwarding), extending SIP on a given VOIP implementation, accompanied by Requirements Specification Documentation. Developed using Java, UML, MySQL.

9th semester | **Design of Analog Electronic systems**
Analysis, design and implementation of a 10W audio amplifier obligatory for academic course. Analysis, design and implementation of a class A-B audio amplifier and a class-D general purpose amplifier, regarding personal research interests, implemented with courses' mate.

7th semester | **Database Systems**
Design and implementation of a database management system simulating a complete realistic airport, following the MVC pattern. Developed using MySQL, PHP, HTML and Javascript in a team of 2 students.

NOTABLE ACADEMIC COURSEWORK

9 th semester	Neural Networks and Intelligent Systems The course is focused on Neural network models and architectures, convergence and stability, error-correction (multilayer perceptrons and backpropagation algorithm) and competitive learning algorithms. Associative, recurrent and radial basis function networks. Computational intelligence and intelligent system applications.
9 th semester	Advanced Topics in Database Systems The main topics covered in this course include: Concurrency Control and Recovery in relational database management systems. Distributed databases. Object-oriented database systems. Temporal database systems. Spatial database systems. Data warehouses. Data Mining.
8 th semester	Human-Machine Interaction The course focuses on methodologies for user-centered systems' design, development and evaluation, covering issues like conceptual models for interaction, technologies, methods and tools for human-machine interaction design, etc. The main topics are human-computer interaction, interaction design methodologies, rich interaction, ubiquitous computing, and augmented realities.
8 th semester	Advanced Topics in Computer Architecture The course is focused on modern CPU organization: control unit and datapath, pipelined architectures, memory hierarchy organization, multi-stage pipelines with variable latencies, branch prediction, Very large Instruction Word (VLIW) architectures, Instruction Level Parallelism (ILP), superscalar pipelines, out-of-order execution. Examples of modern processors, hyperthreading (HT), Simultaneous Multithreading (SMT) and Multicore chips.
7 th semester	Image and Video Analysis and Technology The course is focused on processing, analysis, management, search and retrieval of digital images and digital video. Emphasis on image and video characteristics, 2-D sampling and transforms, quantization, coding, transmission of still and moving images, enhancement, (non-linear) filtering and image analysis, feature extraction, classification, summarization.

TECHNICAL SKILLS

<i>Programming Languages</i>	C/C++, Python, ML, Matlab, Prolog, SQL, Java, Haskell, HTML/CSS Assembly Languages: Intel 8085/8086, AVR ASM
<i>Operating Systems</i>	Linux/UNIX (Arch-primary OS, Manjaro, Debian, Ubuntu), Windows, Mac OS X
<i>Tools</i>	Eclipse, Vim, Git, Pacman, Awesome(WM), \LaTeX Parallel Programing: OpenMP, MPI Python Tools: Numpy, Matplotlib

ACHIEVEMENTS

- June 2011 | Highest Diploma Certification in Classical Guitar, Honors
- May 2008 | 1st Place, National Greco-Roman Wrestling Student Championship

EXTRACURRICULAR ACTIVITIES

Cine-noisi

Active member of the group of young people "Cine-noisi", who was granted by the *Youth In Action EU program*, action 1.2 Youth Initiatives, for the creation of the short movie "KANENAS" (Translation: Nobody). The whole project had a social impact, referring to the loneliness of the elderly, through a learning process of the young people who implemented the project and who developed their personal and social competencies.

Traditional Dances

- Current teacher at Traditional Dances Department, of National Technical University of Athens.

- Active participation to the group "Chorovates".
- Diploma with Honors, for graduation of the historical Pontian group "Argonaytoi-komnhnoi".

Chess

1st Place Diploma, Inter-Secondary School Championship.

Athletic Activity

8 Greco-Roman Wrestling Titles referring to Local Championships or Qualification Rounds towards National Championship.

Remembering Dances

Actively participated in the Exchange "*Recordando Danzas*" as a part of the *Youth in Action* program of the *European Union* (7-15 June 2009, Spain).

First Poetry Prize-Premier Prix de Poesie

1st Prize for the participation, with a team of classmates from secondary school, to the Greek poetry competition "Francophonie 2007".

LANGUAGES

GREEK | Mother tongue

ENGLISH | Advanced Certificate-Michigan(2006)