

Vaios Papaspyros – Curriculum Vitae

Address	11 Acheloou, Vrilissia, 15235, Athens, Greece	Phone	+30 6982253076
Date of Birth	28 th April 1994	Email	b.papaspyros@gmail.com
Nationality	Greek	Linked-in	https://gr.linkedin.com/in/bpapaspyros
		Github	https://github.com/bpapaspyros
		Bitbucket	https://bitbucket.org/bpapaspyros

Experience

June 2017 - Present **Applied Mechanics Lab, Mechanical Eng. & Aeronautics dept., University of Patras, Greece**
Research Engineer

Research Topic: Unmanned Heterogeneous Swarm of Sensor Platforms.

Funding: European Defense Agency “EuroSWARM” Project.

May 2016 - Oct 2016 **Inria Nancy Grand-Est, LARSEN/Resibots Team, Nancy, France**
Research intern

Internship Title: Intelligent Trial & Error with the iCub humanoid robot.

Research Topic: Robot damage recovery with safety constraints.

Supervisor: Jean-Baptiste Mouret.

Funding: ERC “ResiBots” Project.

Related Publications: “Safety-Aware Robot Damage Recovery Using Constrained Bayesian Optimization and Simulated Priors”.

Education

Sep 2012 - Present **Computer Engineering & Informatics Department, University of Patras Greece**
Undergraduate Student

CEID offers a 5 year undergraduate program which is a master equivalent (300 ECTS). During these five years is offered a wide variety of computer engineering and science courses, including lab hours and course projects concerning main problems of the computer science field. Main interests in the area of programming, AI & machine learning and algorithm design.

July 2012 **Costeas-Gitonas School, Athens, Greece**
High School | Final Grade: 19.2/20

Became acquainted with the field of computer science, earning the International Certificate in IT skills (Cambridge) and ECDL core diplomas. Furthermore, I studied basic HTML and C programming as a part of the computer science course.

2013 - Present **Online Courses**
Coursera, MIT Open Courseware, Stanford Center for Professional Development

I have attended over 10 courses covering a wide range of topics such as Machine Learning, Software Engineering, Android Development, Parallel Programming, Linear Algebra, Computer Architecture, Data Structures, Digital Signal Processing, etc.

Activities

Oct 2012 - Feb 2014 **ROBOTICS CLUB (POLYMECHANON TEAM), University of Patras, Greece**
Member

Worked on developing a graphical user interface using ROS for the project "Polymechanon". Developed more programming skills in accordance with guidelines followed by the community. Gained a lot of useful knowledge about version control systems and code documentation. Furthermore, I studied the basics in the theory of robotics, including basic forward and inverse kinematics.

Publications

PEER-REVIEWED
WORKSHOPS

Safety-Aware Robot Damage Recovery Using Constrained Bayesian Optimization and Simulated Priors, *Vaios Papaspyros, Konstantinos Chatzilygeroudis, Vassilis Vassiliades, Jean-Baptiste Mouret, BayesOpt 2016: Proceedings of the International Workshop on "Bayesian Optimization" at NIPS 2016 | Supplementary Video.*

Projects

PROGRAMMING

■ C/C++ -

- **Co-author to robot_dart**, a policy based, highly templated C++11 generic robotics simulator ideal for evolutionary computation.
- **Contributor to limbo**, a highly templated C++11 Bayesian optimization framework.
- **University assignments** requiring extensive use of the **Boost**, **LEDA**, **OpenMP**, **CUDA** and **OpenCL** C/C++-APIs. Furthermore, assignments focusing on C++ object oriented design & programming, **OpenGL** graphics, data structures, sorting algorithms, HTTP request parser, posix threads, TCP/IP server-client implementations.

■ **Python** - Implementations including the Aho-Corasick algorithm and genetic programming problems. Plenty of experience with matplotlib, numpy and the waf build system.

■ **Java/Android** - University assignments including swing and JavaFX development. Android applications including micro controller communication.

■ **SQL & JDBC** - University assignments combining SQL database design & implementation as well as GUI support through JavaFX and JDBC (for SQL database handling).

■ **Matlab/Octave** - University assignments for the Scientific Computation and Digital Telecommunications (quantizer, huffman code, PCM, FSK, PSK implementations) courses. Furthermore, assignments for the online course Machine Learning (Coursera).

■ **HTML/CSS/PHP/Javascript** - Simple mailing list manager (with a simple interface) using the campaign monitor php API.

MACHINE
LEARNING
AND
ROBOTICS

- Interested in advancing in this field.
- Research intern at Inria - Intelligent Trial & Error with the iCub humanoid robot.
- Worked on developing a GUI for the "Polymechanon" project.

Competitions

- **IEEEExtreme9.0** (Oct 2015) Team "*Tokyooo*" | Ranked top 25% worldwide.

Skills

ADVANCED: C/C++(11), Python, Java, Matlab/Octave, MATLAB, bash scripting, Object Oriented Design & Programming, Policy-based design

INTERMEDIATE: Robot Operating System (ROS), OpenMP, CUDA, OpenGL, MySQL & Sqlite, HTML 5, CSS, PHP, Javascript

Certificates

- English - Proficiency Level (C2), Cambridge Certificate
- French - DELF (B2), International Centre for French Studies
- European Computer Driving Licence (ECDL)
- International Certificate in IT Skills

Languages

GREEK: Native
ENGLISH: Fluent - Professional working proficiency
FRENCH: Limited working proficiency

Interests

- Machine Learning
- Programming
- Basketball
- Artificial Intelligence
- Robotics
- Music/Guitar