Vaios Papaspyros – Curriculum Vitae

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Date of Birth	28th April 1994	**Github**	https://github.com/bpapaspyros
Nationality	Greek	**Bitbucket**	https://bitbucket.org/bpapaspyros

Experience

Jun 2017 - Nov 2017
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 (EDA) "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: European Research Council (ERC) "ResiBots" Project.
Related Publications: "Safety-Aware Robot Damage Recovery Using Constrained Bayesian Optimization and Simulated Priors".

Education

Sep 2012 - Sep 2017
Computer Engineering & Informatics Department, University of Patras, Greece
Master of Engineering (M.Eng) | *GPA:* 7.34/10

Diploma Thesis Subject: Safety-Aware Intelligent Trial-and-Error for Robot Damage Recovery.
Grade: 10/10.
Supervisors: Ioannis Hatzilygeroudis, Jean-Baptiste Mouret.

- Jul 2012
Costeas-Gitonas School, Athens, Greece
High School | *GPA:* 19.2/20

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

Publications

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.*

Reviews

NIPS WORKSHOP
BAYESOPT 2017

Reviewer for the BayesOpt 2017 Workshop of the Neural Information Processing Systems (NIPS) Conference.

Programming Assignments & Experience

LANGUAGES
& APIS

- **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: ***Boost***, ***LEDA***, ***OpenMP***, ***CUDA***, ***OpenCL***, ***OpenGL***, data structures, posix threads, TCP/IP.

- **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 Telecomunications (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. Furthermore, courrier-like complete system.

MACHINE
LEARNING
& 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

- **IEEExtreme9.0** (Oct 2015) Team *"Tokyooo"* | Ranked top 25% worldwide.

Skills

ADVANCED: C/C++(11), Python, Boost, Eigen, Robot Operating System (ROS), Matlab/Octave, LaTeX, bash scripting, Object Oriented Design & Programming, Policy-based design

INTERMEDIATE: OpenMP, CUDA, OpenGL, Java, 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