

Vaios Papaspyros – Curriculum Vitae

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Date of Birth	28 th April 1994	Email	b.papaspyros@gmail.com
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		Github	https://github.com/bpapaspyros
		Bitbucket	https://bitbucket.org/bpapaspyros

Experience

Nov 2017 - Present **Myrmex Inc., Ilioupoli, Greece**
Robotics Software Engineer

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**
Diploma/MEng | GPA: 7.35/10

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

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.

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](#).

Reviews

NIPS WORKSHOP
BAYESOPT 2017

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

Activities

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

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 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. Furthermore, courier-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

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

Skills

ADVANCED: C/C++(11), Python, Boost, Eigen, Robot Operating System (ROS), Matlab/Octave, ~~ELX~~ \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
- Artificial Intelligence
- Programming
- Robotics
- Basketball
- Music/Guitar