



Vaios Papaspyros

Robotics & Machine Learning Engineer

Experience

03/18 - Now **Research Intern** [École Polytechnique Fédérale de Lausanne, Lausanne, Switzerland](#)

Team: Laboratoire de Systèmes Robotiques (LSRO)
Research Topic: Self-Adaptive Mixed Societies of Animals and Robots.
Supervisors: Frank Bonnet, Francesco Mondada.

11/17 - 02/18 **Robotics Software Engineer** [Myrmex Inc., Ilioupoli, Greece](#)

06/17 - 11/17 **Research Engineer** [MEAD, Univ. of Patras, Patras, Greece](#)

Team: Applied Mechanics Lab
Research Topic: Unmanned Heterogeneous Swarm of Sensor Platforms.
Funding: European Defense Agency (EDA) "EuroSWARM" Project.

05/16 - 10/16 **Research Intern** [Inria Nancy Grand-Est, Nancy, France](#)

Team: LARSEN/Resibots
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".

Address

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Mail

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Web & Git

Personal Website
Twitter
LinkedIn
Github
Bitbucket

OS Preference

Linux ★★★★★
Windows ★★★★★
MacOS ★★★★★

Languages

Greek ★★★★★
English ★★★★★
French ★★★★★

Education

09/12 - 11/17 **M.Eng in Computer Engineering & Science** [Univ. of Patras, Patras, Greece](#)

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.

09/10 - 06/12 **High School** [Costeas-Geitonas School, Athens, Greece](#)
GPA: 19.2 / 20

2013 - Now **Online Courses** [Coursera, MIT and Stanford open courseware](#)

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

Papaspyros, V., Chatzilygeroudis, K., Vassiliades, V. and Mouret, J.B., 2016.

Safety-Aware Robot Damage Recovery Using Constrained Bayesian Optimization and Simulated Priors

BayesOpt 2016: Proceedings of the International Workshop on "Bayesian Optimization" at NIPS 2016 | **Supplementary Video**

Reviews

2017 - NIPS Workshop - BayesOpt 2017

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

Programming Assignments & Experience

AI,
Machine Learning,
& Robotics

Interested in advancing in this field

- Research intern at Inria - Intelligent Trial & Error with the iCub humanoid robot.
- Research intern at EPFL - Self-Adaptive Mixed Societies of Animals and Robots.

C/C++

Co-author to **robot_dart**

robot_dart is a flexible and generic C++11 wrapper for DART and is suitable for evolutionary computation

C/C++

Contributor to **limbo**

limbo is a highly templated C++11 Bayesian optimization framework.

C/C++

Experienced with: Boost, LEDA, OpenMP, CUDA, OpenCL, OpenGL, data structures, posix threads, TCP/IP protocols.

Python

Experienced with: matplotlib, numpy and the waf build system.

Multiple assignments using python for data analysis or algorithmic design (e.g. Aho-Corasick).

Matlab/Octave

Plenty of experience with data analysis using Matlab.

University assignments for: Scientific Computation, Digital Telecommunications (quantizer, huffman code, PCM, FSK, PSK implementations) courses. Also, assignments for the online course "Machine Learning" (Coursera).

Java/Android

Java and JavaFX, multiple Android data structure APIs.

Multiple university assignments requiring the use of Java and JavaF and Android development. Also, a few personal Android projects.

Databases

MySQL, sqlite, JDBC

University assignments: Database design, implementation & deployment.

Web

HTML, CSS, PHP, Javascript

Examples of assignments: Simple mailing list manager (with a simple interface) using the campaign monitor php API, courrier-like complete system.

Competitions

02/2013

IEEEExtreme9.0

IEEE

Team "Tokyooo" | Ranked top 25% worldwide.

Certifications

English Language

Cambridge

Proficiency Level (C2)

French Language

International Centre for French Studies

DELF (B2)

European Computer Driving Licence (ECDL)

ECDL Foundation

International Certificate in IT Skills

Cambridge

Summary of 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

Summary of language skills

Greek

Native

English

Fluent - Professional working proficiency

French

Moderate - Limited working proficiency

Interests

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

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