

# Vaios **Papaspyros**

#### Robotics & Machine Learning Engineer

## **Experience**

**Address** 

Lausanne Area Canton de Vaud. Switzerland

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

**Telephone** 

+30 698 2253076 (Greek) 06/17 - 11/17 Research Engineer

MEAD, Univ. of Patras, Patras, Greece

Mail

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epfl.ch

**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".

#### Web & Git

Personal Website 😯

Twitter >

LinkedIn in

Github () Bitbucket 5

**OS Preference** Linux ★★★★★ Windows ★★★★★

MacOS ★★★★★

Languages

Greek \*\*\*\*

## **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.

English ★★★★★ French \*\*\*\*

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**

ΑI,

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 Telecomunications (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 IEEExtreme9.0 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), Mat-

lab/Octave, LATEX, bash scripting, Object Oriented Design & Program-

ming, Policy-based design

Intermediate OpenMP, CUDA, OpenGL, Java, MySQL & Sqlite, HTML 5, CSS, PHP,

**Javascript** 

## **Summary of language skills**

Greek Native

English Fluent - Full Professional working proficiency

French Moderate - Limited working proficiency

#### Interests

Machine Learning

Artificial Intelligence

Programming

Robotics

Basketball

Music/Guitar

Vaios Papaspyros