



Vaios Papaspyros

PhDc in Machine Learning & Robotics @ EPFL

Experience

06/18 - Now **Research Assistant** [EPFL, Lausanne, Switzerland](#)

Team: Mobots @ Laboratoire de Systèmes Robotiques (LSRO).
Research Topic: Self-Adaptive Mixed Societies of Animals and Robots.
Supervisors: Frank Bonnet, Francesco Mondada.
Funding: Swiss National Science Formation (SNF).

03/18 - 05/18 **Research Intern** [EPFL, Lausanne, Switzerland](#)

Team: Mobots @ 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: EuroSWARM 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.

Education

06/18 - Now **Doctor of Philosophy - PhD Candidate** [EPFL, Lausanne, Switzerland](#)
Robotics, Control, and Intelligent Systems.

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

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

General Information

Nationality: Greek
Birthday: 28/04/1994

Address

Lausanne Area
Canton de Vaud,
Switzerland

Telephone

+30 698 2253076
(Greek)

Mail

b.papaspyros@
gmail.com
vaios.papaspyros@
epfl.ch

Web & Git

Personal Website
Twitter
LinkedIn
Github
Bitbucket

OS Preference

Linux ★★★★★
Windows ★★★★★
MacOS ★★★★★

Languages

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

Publications

• Peer-Reviewed Workshops

Dec 2016 **Safety-Aware Robot Damage Recovery Using Constrained Bayesian Optimization and Simulated Priors**, V. Papaspyros, K. Chatzilygeroudis, V. Vassiliades, J.B. Mouret. [BayesOpt](#)

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

• Posters

May 2018 **Self-Adaptive Mixed Societies of Animals and Robots**, V. Papaspyros, F. Bonnet, F. Mondada. [SwissZebra 2018](#)

Awarded 3rd prize for best poster.

Reviewer

BayesOpt International workshop on bayesian optimization of the Neural Information Processing Systems (NIPS) Conference. [2017](#)

Programming Assignments & Experience

AI,
Machine Learning,
& Robotics

Interested in advancing in this field

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

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).

Honors & Awards

05/2018 **SwissZebra Conference**
3rd prize for best poster.

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

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 - Full Professional working proficiency
French	Moderate - Limited working proficiency

Interests

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