

# Vaios Papaspyros

PhDc in Machine Learning & Robotics @ EPFL

## General Information

**Nationality:** Greek  
**Birthday:** 28/04/1994

## Address

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## Web & Git

Personal Website   
Twitter   
LinkedIn   
Github   
Bitbucket 

## OS Preference

Linux ★★★★★  
Windows ★★★★★  
MacOS ★★★★★

## Languages

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

## Experience

- |   |                                   |                                       |
|---|-----------------------------------|---------------------------------------|
| 06/18 - Now   | <b>Research Assistant</b>         | EPFL, Lausanne, Switzerland           |
| <b>Team:</b> Mobots @ Laboratoire de Systèmes Robotiques (LSRO).<br><b>Research Topic:</b> Self-Adaptive Mixed Societies of Animals and Robots.<br><b>Supervisors:</b> Frank Bonnet, Francesco Mondada.<br><b>Funding:</b> Swiss National Science Formation (SNF).  |                                   |                                       |
| 03/18 - 05/18   | <b>Research Intern</b>            | EPFL, Lausanne, Switzerland           |
| <b>Team:</b> Mobots @ Laboratoire de Systèmes Robotiques (LSRO).<br><b>Research Topic:</b> Self-Adaptive Mixed Societies of Animals and Robots.<br><b>Supervisors:</b> Frank Bonnet, Francesco Mondada.   |                                   |                                       |
| 11/17 - 02/18   | <b>Robotics Software Engineer</b> | Myrmex Inc., Ilioupoli, Greece        |
| 06/17 - 11/17   | <b>Research Engineer</b>          | MEAD, Univ. of Patras, Patras, Greece |
| <b>Team:</b> EuroSWARM team @ Applied Mechanics Lab.<br><b>Research Topic:</b> Unmanned Heterogeneous Swarm of Sensor Platforms.<br><b>Funding:</b> European Defense Agency (EDA) "EuroSWARM" Project.  |                                   |                                       |
| 05/16 - 10/16   | <b>Research Intern</b>            | Inria Nancy Grand-Est, Nancy, France  |
| <b>Team:</b> LARSEN/Resibots.<br><b>Internship Title:</b> Intelligent Trial & Error with the iCub humanoid robot.<br><b>Research Topic:</b> Robot damage recovery with safety constraints.<br><b>Supervisor:</b> Jean-Baptiste Mouret.<br><b>Funding:</b> European Research Council (ERC) "ResiBots" Project. |                                   |                                       |

## Education

- |  |  |                                 |
|--|--|---------------------------------|
| 06/18 - Now  | <b>Doctor of Philosophy - PhD Candidate</b>        | EPFL, Lausanne, Switzerland     |
| Robotics, Control, and Intelligent Systems.  |  |                                 |
| 09/12 - 11/17  | <b>M.Eng in Computer Engineering &amp; Science</b> | Univ. of Patras, Patras, Greece |
| <b>GPA:</b> 7.35 / 10<br><b>Diploma Thesis Subject:</b> Safety-Aware Intelligent Trial-and-Error for Robot Damage Recovery.<br><b>Grade:</b> 10/10.<br><b>Supervisors:</b> Ioannis Hatzilygeroudis, Jean-Baptiste Mouret.<br><b>Related Publications:</b> "Safety-Aware Robot Damage Recovery Using Constrained Bayesian Optimization and Simulated Priors". |  |                                 |

- |                       |                    |   |
|-----------------------|--------------------|---|
| 09/10 - 06/12         | <b>High School</b> | Costeas-Geitonas School, Athens, Greece |
| <b>GPA:</b> 19.2 / 20 |                    |   |

# 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 3<sup>rd</sup> 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**  
3<sup>rd</sup> prize for best poster.

## Competitions

10/2015      **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

## Programming skills

Advanced      **C/C++(11), Python, Boost, Eigen, Robot Operating System (ROS), Matlab/Octave,  $\text{\LaTeX}$ , bash scripting, Object Oriented Design & Programming, Policy-based design**

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

## 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