

# 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 **Doctoral Assistant** [EPFL, Lausanne, Switzerland](#)

**Team:** Mobots @ Biorobotics laboratory (Biorob).  
**Research Topic:** Self-Adaptive Mixed Societies of Animals and Robots.  
**Thesis director:** 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.

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

## Teaching

02/19 - 06/19 **Robotics practicals | Robot Operating System (ROS) basics**  
4h / week - 1<sup>st</sup> year Master of Robotics

[EPFL](#)

## Publications

### • Peer-Reviewed Journals

Aug 2019 *Bidirectional interactions facilitate the integration of a robot into a shoal of zebrafish *Danio rerio**, **Papaspnyros V**, Bonnet F, Collignon B, Mondada F.  
[PLoS One](#)

TBD *A data-driven method for reconstructing and modelling social interactions in moving animal groups*, Escobedo R, Lecheval V, **Papaspnyros V**, Bonnet F, Mondada F, Sire C, Theraulaz G. **Under review**

### • Peer-Reviewed Workshops

Dec 2016 *Safety-aware robot damage recovery using constrained bayesian optimization and simulated priors*, **Papaspnyros V**, Chatzilygeroudis K, Vassiliades V, Mouret JB. [Proceedings of the International Workshop on "Bayesian Optimization" at NIPS 2016](#)

## Reviewer

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

**IISA** 10th International Conference on Information, Intelligence, Systems and Applications. [2019](#)

## Open-source project contributions

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.

## Honors & Awards

05/2018 **SwissZebra Conference**  
3<sup>rd</sup> prize for best poster (100 CHF).

## Programming skills

Advanced	<b>C &amp; modern C++, Boost, Eigen, Python, <math>\text{\LaTeX}</math>, Robot Operating System (ROS), Matlab/Octave, bash scripting, Policy-based design</b>
Intermediate	<b>OpenMP, CUDA, OpenGL, Java, MySQL &amp; Sqlite, HTML 5, CSS, PHP, Javascript</b>

## Interests

- Machine Learning & AI
- Robotics
- Programming
- Basketball & Music