

Vaios Papaspyros

PhDc in Machine Learning & Robotics @ EPFL

General Information

Nationality: Greek
Birthday: 28/04/1994

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Web & Git

Personal Website 
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OS Preference

Linux ★★★★★
MacOS ★★★★★
Windows ★★★☆☆

Languages

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

Experience

- 06/18 - Now **Doctoral Assistant** [EPFL, Lausanne, Switzerland](#)
Team: Mobots @ Francesco Mondada Group (FMO1).
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

• Winter Semester

- 02/21 - 06/21 **Basics of Mobile Robotics** [EPFL](#)
2h / week - 1st year Master of Robotics
- 02/20 - 06/20 **Basics of Mobile Robotics** [EPFL](#)
2h / week - 1st year Master of Robotics

• Spring Semester

- 02/21 - 06/21 **Robotics practicals | Robot Operating System (ROS) basics** [EPFL](#)
4h / week - 1st year Master of Robotics
- 02/20 - 06/20 **Robotics practicals | Robot Operating System (ROS) basics** [EPFL](#)
4h / week - 1st year Master of Robotics
- 02/19 - 06/19 **Robotics practicals | Robot Operating System (ROS) basics** [EPFL](#)
4h / week - 1st year Master of Robotics

Publications

• Journals

- Sep 2020 *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. [Philosophical Transactions of the Royal Society B](#)
- 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](#)

• Conferences

- May 2021 *Exploring a Handwriting Programming Language for Educational Robots*, El-Hamamsy L., **Papaspnyros V.**, Kangur T., Mathex L., Giang C., Skweres M., Bruno B., Mondada F. [Proceedings of the 12th International Conference on Robotics in Education](#)

• 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

IROS	International Conference on Intelligent Robots and Systems.	2020 , 2021
IISA	10th International Conference on Information, Intelligence, Systems and Applications.	2019
BayesOpt	International workshop on bayesian optimization of the Neural Information Processing Systems (NIPS) Conference.	2017

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 rd prize for best poster (100 CHF).
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Programming skills

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

Interests

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