

## Personal information

Last and First name

Email(s)

Web Site

**Invernizzi Luca**

*invernizzi.l@gmail.com*

<http://lucainvernizzi.net>

## Education

Period

Qualification

University

Period

Qualification

University

Period

Qualification

University

Period

Qualification awarded

University

Thesis

Period

Qualification awarded

University

Thesis

Period

Qualification awarded

University

Thesis

**Since September 2010**

PhD student in Computer Science, working on Web Security (advisors: G. Vigna, C. Kruegel)

UNIVERSITY OF CALIFORNIA, SANTA BARBARA [<http://www.ucsb.edu>]

**October 2009 - March 2010**

Visiting Scholar in the Mathematics dept. (prof. M. Chiba), working on Autonomous Underwater Vehicles

UNIVERSITY OF HAWAII AT MANOA [<http://www.uhm.hawaii.edu>]

**August 2008 - November 2008**

Visiting Scholar in the Mechanical Engineering dept. (prof. F. Bullo), working on Autonomous Land Vehicles

UNIVERSITY OF CALIFORNIA, SANTA BARBARA [<http://www.ucsb.edu>]

**October 2007 - July 2010**

Master's Degree in Control Engineering, Vehicles Control specialization (110/110 cum laude)

UNIVERSITY OF PISA [<http://www.unipi.it>]

A differential geometric approach to path planning and control design for autonomous underwater vehicles.

**October 2004 - June 2010**

Diploma in Engineering (100/100 cum laude). SSSUP Fellowship (*Allievo Ordinario*).

SANT'ANNA SCHOOL OF ADVANCED STUDIES [<http://www.sssup.it>]

Spatially-distributed decentralized coverage control.

**October 2004 - October 2007**

Bachelor's Degree in Computer Engineering (110/110 cum laude). Diploma of *Path of Excellence*.

UNIVERSITY OF PISA [<http://www.unipi.it>]

Localization of non-collaborative sound sources with a wireless sensor network.

## Professional Experience

Period

Main activity

Name of employer

Period

Main activity

Name of employer

Period

Main activity

Name of employer

**July 2011 - September 2011**

Software Engineering Intern, pentesting and improving the security of Ruby on Rails applications, including a payment-processing system.

APPFOLIO [<http://www.appfolio.com>]

**May 2010 - August 2010**

*Google Summer of Code* Student, adding online synchronization to "Getting Things GNOME", a task management software for the GNOME Desktop

GOOGLE and the GNOME FOUNDATION [<http://www.gnome.org>]

**March 2009 - June 2009**

Creation of a web site for the "ANGELS Project", an European Project on underwater swarm robotics

CRIM LABORATORY - SANT'ANNA SCHOOL OF ADVANCED STUDIES [<http://www.theangelsproject.eu>]

## Open Source Contributions

Period

Main activity

Name of employer

Period

Main activity

**Since May 2011**

Mentoring of *Google Summer of Code* and *Gnome Women Outreach* students

GOOGLE and the GNOME FOUNDATION

**Since July 2009**

Developer in the "Getting Things GNOME" open source LINUX/GNU software (<http://gtg.fritalk.com>). Member of the GNOME foundation. Contributions to several other open source projects (PLAYER robotic framework, Tarantula and Brakeman RoR security tools, Eucalyptus...)

## Competitions

Period

Project

Context

Period

**Since November 2010**

Member of the organizing team of the iCTF 2010 and 2011, the biggest online hacking competition.

SECLAB team at UNIVERSITY OF CALIFORNIA, SANTA BARBARA [<http://ictf.cs.ucsb.edu>].

**April 2008 - September 2008**

Project Development of a robotic exapod for the european academic competition EUROPEAN SPATIAL AGENCY - LUNAR ROBOTIC CHALLENGE (finalist team)

Context PESAPOD team at SANT'ANNA SCHOOL OF ADVANCED STUDIES [<http://pesapod.blogspot.com>].

## Skills

### Technical skills

- Backend programming: Python, Ruby, C,  $\mu$ -controllers languages, various others used opportunistically (C++, C#, Java...)
- Databases: Sql, CouchDB
- Web: Rails, Css, Html, Javascript
- Hacking: binary reversing (IDA Pro...), network packets crafting, Snort...
- Operations: Puppet, Munin/Nagios, RabbitMQ, Eucalyptus, Rightscale, AWS EC2, Ldap...
- Simulation and numerical analysis: Matlab, Simulink, Mathematica
- Typesetting:  $\text{\LaTeX}$

### Mother tongue(s)

#### Self-assessment

European level<sup>(\*)</sup>

#### English

#### French

#### Spanish

### Italian

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user
B1	Independent user	B1	Independent user	A2	Basic user	A1	Basic user	A2	Basic user
B1	Independent user	B1	Independent user	A2	Basic user	A2	Basic user	A2	Basic user

<sup>(\*)</sup>Common European Framework of Reference (CEF) level

## References

**Jon Walker** CTO at Appfolio

**Christopher Kruegel** Associate Professor of Computer Science at the University of California, Santa Barbara

**Giovanni Vigna** Full Professor of Computer Science at the University of California, Santa Barbara

**Andrea Caiti** Full Professor of Maritime Systems at the University of Pisa

**Monique Chyba** Full Professor of Mathematics at the University of Hawaii at Manoa