

THE PHD PROGRAM IN COMPUTER AND CONTROL ENGINEERING

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ENGINEERING**

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AGENDA

- The PhD program in Computer and Control Engineering
- The next Call for Applicants
- The Telecom Joint Application Lab



PHD

- It is the 3rd level in the university curricula
- It aims at training students to become researchers
 - In academia
 - In industry
- PhD students are a crucial resource in all research universities worldwide
- POLITO is investing significant resources to support its PhD programs



BECOMING A RESEARCHER

At the end of the curriculum, a PhD student should be able to autonomously perform research. This means:

- Identifying promising research areas
- Acquiring deep skills in the area
- Devising, developing and evaluating innovative ideas and solutions
- Disseminating them in the worldwide research community (writing papers, presenting his/her work at conferences)
- Interacting with other researchers from industry or academia
- Attracting resources (i.e., preparing successful research projects)
- Tutoring students
- ...

PHD LIFE

Each PhD student

- is followed by a supervisor
- works on a specific research project
- is integrated and works in a research group
 - participates in research projects
 - with companies
 - within National or European projects
 - studies the literature and state-of-the-art in his/her area of interest
 - prepares and publishes papers
- follows some ad hoc courses (on specialized or interdisciplinary topics)
- may also be involved in some active teaching activities (e.g., following labs).



PHD GOALS



The goal of a PhD student is to make research

Hence, he/she is expected to

- become aware of the status of the art in his/her research area
- develop new ideas
- prove their effectiveness/limitations (normally in an experimental manner)
- submit papers to conferences and journals
- present papers at conferences and interact with the worldwide research community in his/her field

PhD students are also typically involved in research projects

- with companies
- funded by public bodies (e.g., the European Commission).

PHD GRANTS

They amount to about 1,300 € / months (net).

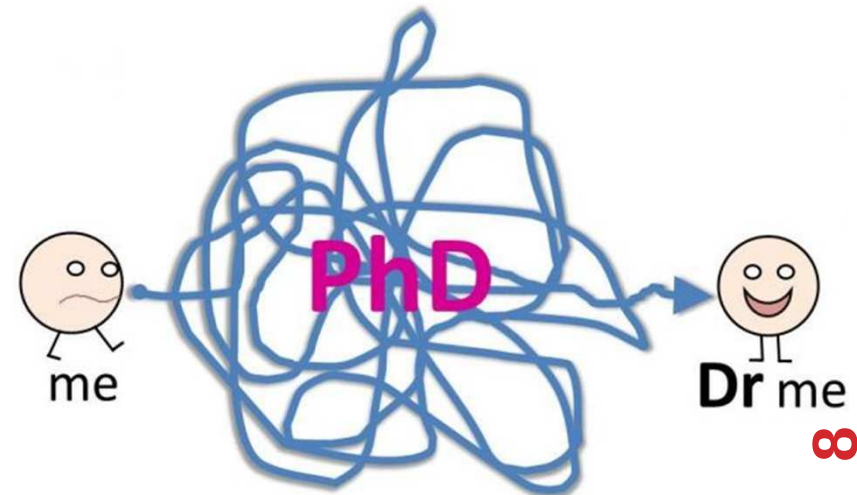
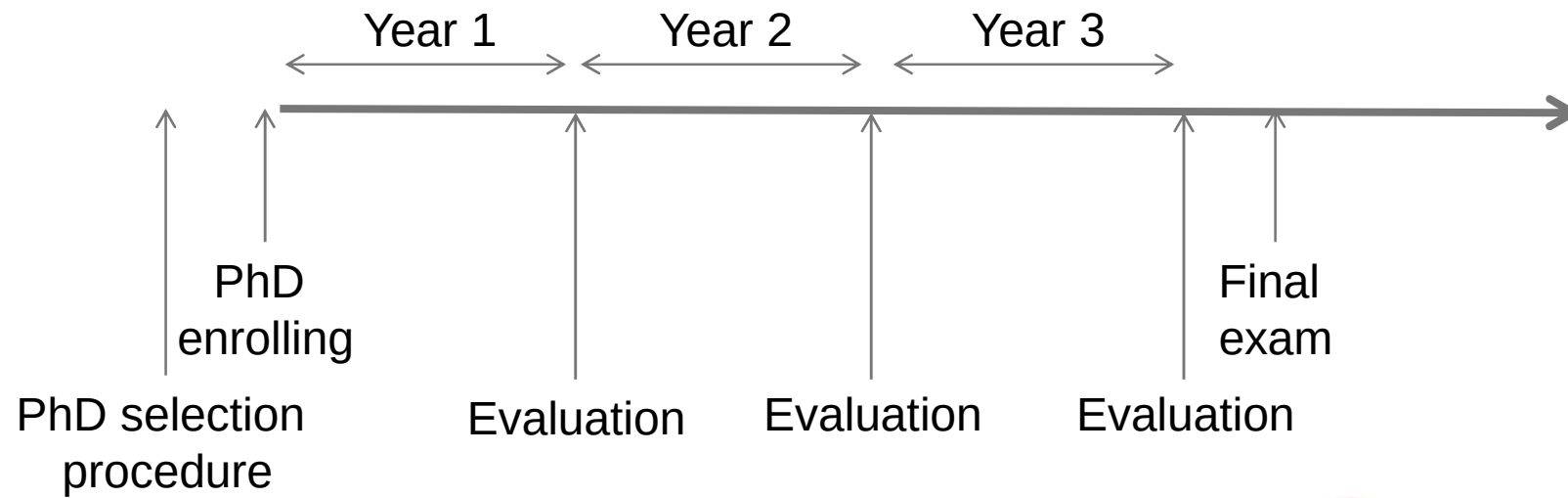
This amount is increased by 50% during the period the student possibly stays abroad during his/her PhD.

Each student may receive extra money for his/her possible teaching activities.

Additional awards are also available for the best PhD students.



PHD CAREER



THE FINAL EXAM



At the end of his/her PhD period the student

- Is evaluated by the PhD committee
- If the evaluation is positive, he/she prepares a thesis describing his/her work and achievements
- The thesis and his/her achievements are evaluated by two independent reviewers
- If the evaluation is positive, he/she discusses his/her work in front of a commission composed of internal/external researchers
- If the evaluation is positive, he/she receives the PhD degree.

PHD CURRICULUM IN COMPUTER AND CONTROL ENGINEERING

It aims at training new researchers in the area of

- Computer engineering
- Control engineering
- Operational research

It is managed by the Dept. of Control and Computer Engineering (DAUIN)

About 20 PhD positions with grants will be open this year

Grants will come from

- Public bodies (POLITO, Eurecom, ISMB)
- Companies (e.g., Telecom Italia).

PHD SELECTION

It is based on the candidate CV and on an interview.

During 2016 it will be performed twice:

- In February/March (the Call will be published later in January)
- In June/July (the Call will be published later in May)

The main steps for the first 2016 selection procedure are

- NOW: The PhD committee selects and publishes a set of topics suitable for PhD activities (each with an associated advisor)
- February XX: deadline for submitting applications
- February/March: a selection committee ranks the applicants and selects the new students, based on their CV and an interview; some minimum requirements are defined and preliminarily checked by POLITO
- May 1: selected students start their activities with a temporary grant; each new student is assigned to the corresponding advisor
- November 1: the new students officially enrolls as PhD student.



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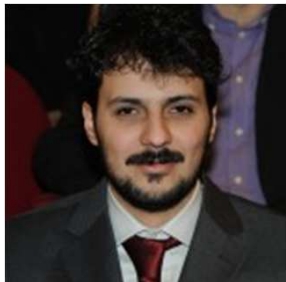
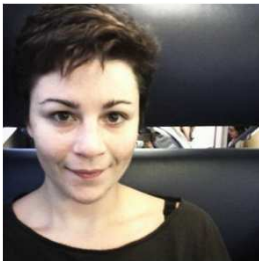
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Suggestions

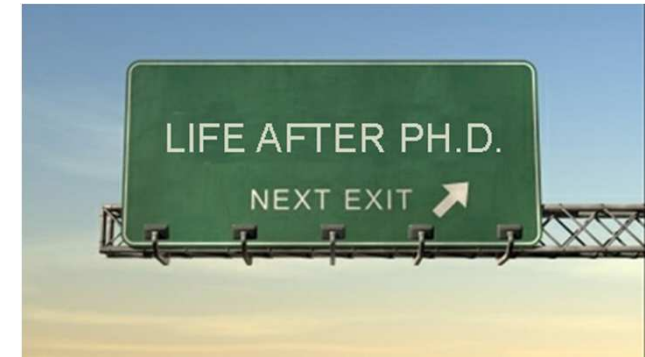
1. Look at the research proposals and select those you are interested in
2. Enter in touch with the corresponding advisor
3. Apply

LIST OF NEW PHD STUDENTS FOR 2015



Student		Advisor	Grant
ABUABIAH	MOHAMMAD	CERONE	POLITO
AVRAMENKO	SERHIY	VIOLANTE	DAUIN
AZIMI	SARAH	STERPONE	TELECOM
BARDINI	ROBERTA	BENSO	POLITO
BAZZANO	FEDERICA	LAMBERTI	TELECOM
CONOSCENTI	MARCO	DE MARTIN	TELECOM
COPPOLA	RICCARDO	MORISIO	TELECOM
DI CORSO	EVELINA	CERQUITELLI	POLITO
HEMMATPOUR	MASOUD	MONTRUCCHIO	POLITO
KARIMSHOUSHTARI	MILAD	NOVARA	GM
KAVOOSIFAR	MOHAMMAD REZA	BARALIS	EURECOM
MARCELLI	ANDREA	SQUILLERO	TELECOM
PRIMATESTA	STEFANO	BONA	TELECOM
REGANO	LEONARDO	LIOY	DAUIN
RICUPERO	GIUSEPPE	CHIUSANO	DAUIN
RIZZO	ROBERTO GIORGIO	MACII E.	POLITO
ROSANO	MARIANGELA	PERBOLI	ISMB
SAVARESE	FRANCESCO	CABODI	Magneti Marelli
TOMMOLILLO	CARLO	CALAFIORE	POLITO
TRAPANI	STEFANO	INDRI	COMAU
VITICCHIE'	ALESSIO	LIOY	DAUIN

PAST PHD STUDENTS



- Edoardo CALIA (1992): now Deputy Managing Director at ISMB, Torino
- Letizia JACCHERI (1995): now Full Professor at the Norwegian University of Science and Technology, Trondheim, Norway
- Rakesh AGARWAL (2006): now Vice President at JPMorgan Chase & Co., Bengaluru, India
- Patricia LAGO (1997): now Full Professor at Vrije Universiteit, Amsterdam, The Netherlands
- Fabio MAINO (1998): now Distinguished Engineer at CISCO, San José, US
- Dante MALAGRINO' (2000): now Chief Product Officer at Embrane, Santa Clara, US
- Davide QUAGLIA (2002): now Assistant Professor at University of Verona
- Riccardo SCANDARIATO (2004): now Senior Lecturer at Chalmers University, Sweden
- Paolo FALCARIN (2004): now Reader at University of East London, UK
- Luis David PRIETO MARTÍNEZ (2005): now Deputy Rector at Universidad Javeriana, Bogotá, Colombia
- Andrea CAPILUPPI (2005): now Lecturer at Brunel University London, UK
- Massimiliano SCHILLACI (2007): now Senior Engineer at STMicroelectronics, Aosta
- Michelangelo GROSSO (2007): now Senior Engineer at ST-POLITO, Torino
- Leticia BOLZANI (2007): now Associate Professor at PUCRS, Porto Alegre, Brazil
- Jose Alejandro OSPINA (2008): now at Deimos Space, Madrid, Spain
- Niccolò BATTEZZATI (2008): now at Magneti Marelli, Torino
- Alberto TONDA (2008): now Assistant Professor at INRA, France
- Fredy RUIZ (2009): now Assistant Professor at Universidad Javeriana, Bogotá, Colombia
- Alberto SCIONTI (2011): now Assistant Professor at University of Siena
- Cesare CELOZZI (2012): now at CISCO, San José, US
- Federico TOMASSETTI (2013): now Software Architect at Tripadvisor, Dublin, Ireland
- Hafeez UR REHMAN (2014): now Assistant Professor at the National University of Computer & Emerging Science, Pakistan
- Daniele ROLFO (2015): now at Thales Alenia Space, Torino
- Davide SABENA (2015): now at GM, Torino

FOR FURTHER INFORMATION

<http://www.phd-dauin.polito.it/index.html>