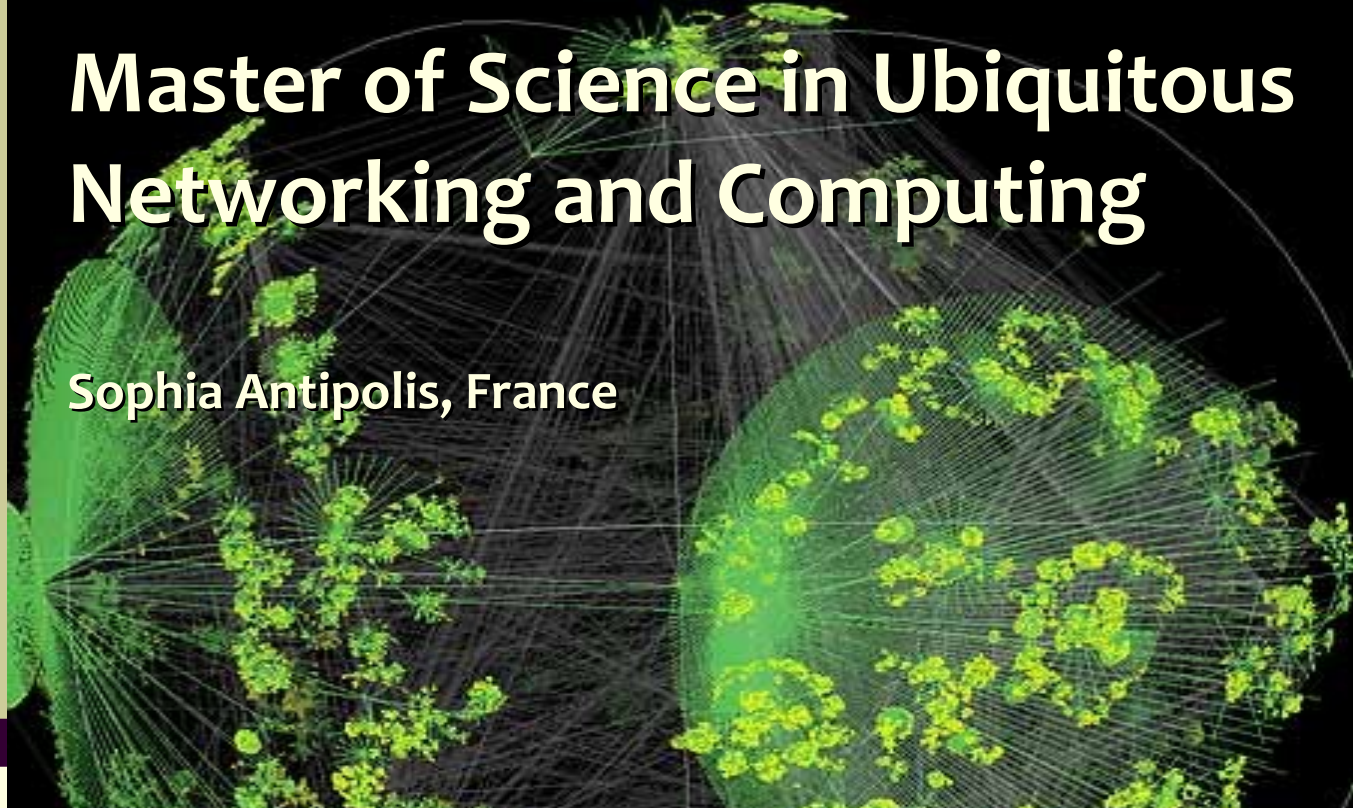


Master of Science in Ubiquitous Networking and Computing

Sophia Antipolis, France



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<http://ubinet.unice.fr>

Environment

- **University of Nice-Sophia Antipolis** . Courses will be given at the Polytech Nice-Sophia, the French engineering school from University of Nice Sophia-Antipolis within the Master IFI (Informatique : Fondements et Ingénieries).
- **CNRS**. The Centre National de la Recherche Scientifique (National Center for Scientific Research) is a government-funded research organization, the largest fundamental research organization in Europe, under the administrative authority of France's Ministry of Research.
- **I3S** is a Joint Research Unit between the University of Nice Sophia Antipolis (UNS) and the CNRS.
- **INRIA**, the French national institute for research in computer science and control, operating under the dual authority of the Ministry of Research and the Ministry of Industry, is dedicated to fundamental and applied research in information and communication science and technology (ICST).

Master IFI (head P. Salvan)

- Architecture Logicielle (AL)
- Cryptographie, Systèmes, Sécurité et Réseaux (CSSR)
- Informatique Ambiante et Mobile (IAM)
- Informatique et Mathématiques Appliquées à la Finance et l'Assurance (IMAFA)
- Interfaces Homme-Machine (IHM)
- Knowledge and Information System (KIS)
- Système Complexe (SC)
- Vision, Image et Multimédia (VIM)

Two International Tracks with 100% english taught courses:

- Ubiquitous Networking and Computing (Ubinet)
- Computational biology (CB)

More Info : http://computerscience.unice.fr/20_Master.php

Scientific Program of Ubinet

M2 Semester 1, October-February - 30 ECTS (European Credits Transfer System)

- 12 courses (24 ECTS)
- A personal project (6 ECTS)

M2 Semester 2, March-August - 30 ECTS

6-month paid full time internship in one of the research team Indes, Maestro and Planete (INRIA), Aoste, Mascotte and Oasis (INRIA/I3S), Signet, Modalis and Rainbow (I3S) or with one of our renowned industrial partners Orange Labs, SAP, THALES, AMADEUS, etc.

Teaching language: English

A french course is organized for foreign students during the first semester.

Scientific Program

- Period 1 (12 ETCS):
 - Evolving Internet : Architectural Challenges I
 - Algorithms for Telecommunication I
 - Performance Evaluation of Networks I
 - Wireless Networks I
 - An algorithmic approach of Distributed Systems
 - Foundations and models for the design of on-chip systems and networks.
- Period 2 (12 ETCS) :
 - Mandatory Courses : (4 ETCS)
 - Large scale distributed systems
 - Middleware for ubiquitous computing
 - Menu Courses : (4 courses to be chosen among 7)
 - Evolving Internet II
 - Performance Evaluation II
 - From BitTorrent to privacy
 - Algorithms for Telecoms II
 - Application security and intrusion detection
 - Wireless networks II
 - Compute and Data Clouds

Personal project (6 ECTS)

- Research activity part of the UbiNet program – 6 ECTS
- The project corresponds to 120 hours of work.
- Conducted before the Internship

- It consists either in
 - study of the state of the art,
 - problem analysis,
 - solution design,
 - prototype development, etc.

- The supervisor provides 1 h/week support (face to face or e-mail).

- Student should at the end
 - write a report describing their work,
 - demonstrate the program they developed and
 - make an oral presentation in front of a jury.

Internship (30 ECTS)

- Full time research activity during 6 months (March – August) in one of the research team
 - Maestro and Planete (INRIA),
 - Mascotte, Aoste and Oasis (INRIA/I3S),
 - Signet, Modalis and Rainbow (I3S)

or with one of our renowned industrial partners Orange Labs, SAP, THALES, AMADEUS, Thomson Technicolor, Alcatel, etc...

The students

Scholarship program opened to outstanding students

- **In 2009/2010**, ~40 applications, 13 students accepted from: Argentina, China, France, India, Italy, Lebanon, Morocco, Pakistan, Poland, Tunisia, Vietnam, Cameroon, Ivory Coast
- **In 2010/2011**, ~60 applications, 18 students accepted from: Vietnam, Columbia, Bangladesh, Argentina, Ethiopia, Sri-Lanka, Lebanon, Madagascar, India, Tunisia, Benin, France
- **In 2011/2012**, 72 applications, 15+2 students accepted from: Cambodge (3), Canada, Colombie, Cote d'Ivoire, Ethiopie, Italie (2), Maroc, Sri-lanka, Ukraine (2), Vietnam (2).

Ubinetters 2009/2010

- 12 students got the Master Diploma in 2009/2010. In 2010/2011, 9 are doing a PhD:
 - 5 in Sophia Antipolis (either INRIA, I3S or LEAT),
 - 1 in Toulouse,
 - 1 in University of Bretagne South,
 - 1 in East China Normal University (ECNU),
 - 1 in Thomson Technicolor, Paris.
- 3 are working in the industry
 - Network Engineer, Google, Dublin, Ireland
 - Network Engineer, Fortinet, Sophia Antipolis
 - Software Engineer, TeamExpert, Paris



Ubinetters 2010/2011

- 14 students got the Master Diploma in 2010/2011. In 2012, 10 are doing a PhD:
 - 5 in Sophia Antipolis (either INRIA, I3S 2 collabor Industry),
 - 1 in Toulouse, ISAE
 - 1 INRIA lille,
 - 1 Clermont ferrand
 - 1 in Finland University Oulou,
 - 1 Irland UCD Dublin

- 4 are working as engineers
 - 2 Network Engineer, INRIA
 - Network Engineer Sri lanka
 - Software Engineer, Vietnam

To apply

■ Contacts :

Ubinet	Master Scientific Committee	ubinet@unice.fr
Guillaume Urvoy Keller	Head of the Master Ubinet	urvoy@unice.fr I3S

■ Visit <http://ubinet.unice.fr>

- **December - April** : First Round of applications
- **Mid May** : Final notification of acceptance for the 1st round

Applying in the first round increases the chances of getting a scholarship

- **May - mid-June** : Second Round of applications
- **End of June**: Final notification of acceptance for the second round

The Professors

Sara Alouf
Research Scientist INRIA

Konstantin Avratchenkov
Research Scientist INRIA

Chadi Barakat
Research Scientist INRIA

Jean-Claude Bermond
*Research Director CNRS,
Project-Team Leader Mascotte*

Gérard Berry
INRIA and French Academy of Sciences

Denis Caromel
*Professor Université Nice-Sophia Antipolis,
Project-Team Leader Oasis*

Ilaria Castellani
Research Scientist INRIA

David Coudert
Research Scientist INRIA

Walid Dabbous
*Research Director INRIA,
Project-Team Leader Planète*

Olivier Dalle
Associate Professor Université Nice-Sophia Antipolis

Frédéric Giroire
Research Scientist CNRS

Frédéric Havet
Research Scientist CNRS

Fabrice Huet
Associate Professor Université Nice-Sophia Antipolis

Stéphane Lavirotte
Associate Professor Université Nice-Sophia Antipolis

Arnaud Legout
Research Scientist INRIA

Guillaume Urvoy-Keller
*Professor , Université Nice-Sophia Antipolis
Project-Team Leader Signet*

Johan Montagnat
*Research Scientist CNRS,
Project-Team Leader Modalis*

Joanna Moulierac
Associate Professor Université Nice-Sophia Antipolis

Philippe Nain
*Research Director INRIA,
Project-Team Leader Maestro*

Giovanni Neglia
Research Scientist INRIA

Stéphane Pérennes
Research Scientist CNRS

Michel Riveill
*Professor Université Nice-Sophia Antipolis,
Project-Team Leader Rainbow*

Manuel Serrano
*Research Director INRIA,
Project-Team Leader Indes*

Jean-Yves Tigli
Associate Professor Université Nice-Sophia Antipolis

Institutions involved



Centre National de la Recherche Scientifique
<http://www.cnrs.fr>



**Laboratoire d'Informatique, Signaux et
Systèmes de Sophia Antipolis**
<http://www.i3s.unice.fr/>



Université de Nice Sophia Antipolis (UNS)
<http://portail.unice.fr>



**Institut National de Recherche en
Informatique et en Automatique**
<http://www.inria.fr>