

A leading institution at the heart of the digital society



EURECOM

EXIT UNIVERSITY of the CSE Master Program



KEY FACTS ABOUT EURECOM

300 Master students

75 Phd students

25 Professors

3

Main fields of
research and
teaching

Data Science

Digital Security

Communication Systems

A consortium of

9 universities

5 companies

and **1** institutional partner

300

Days of sun
on the
French Riviera





EURECOM
S o p h i a A n t i p o l i s

Academia

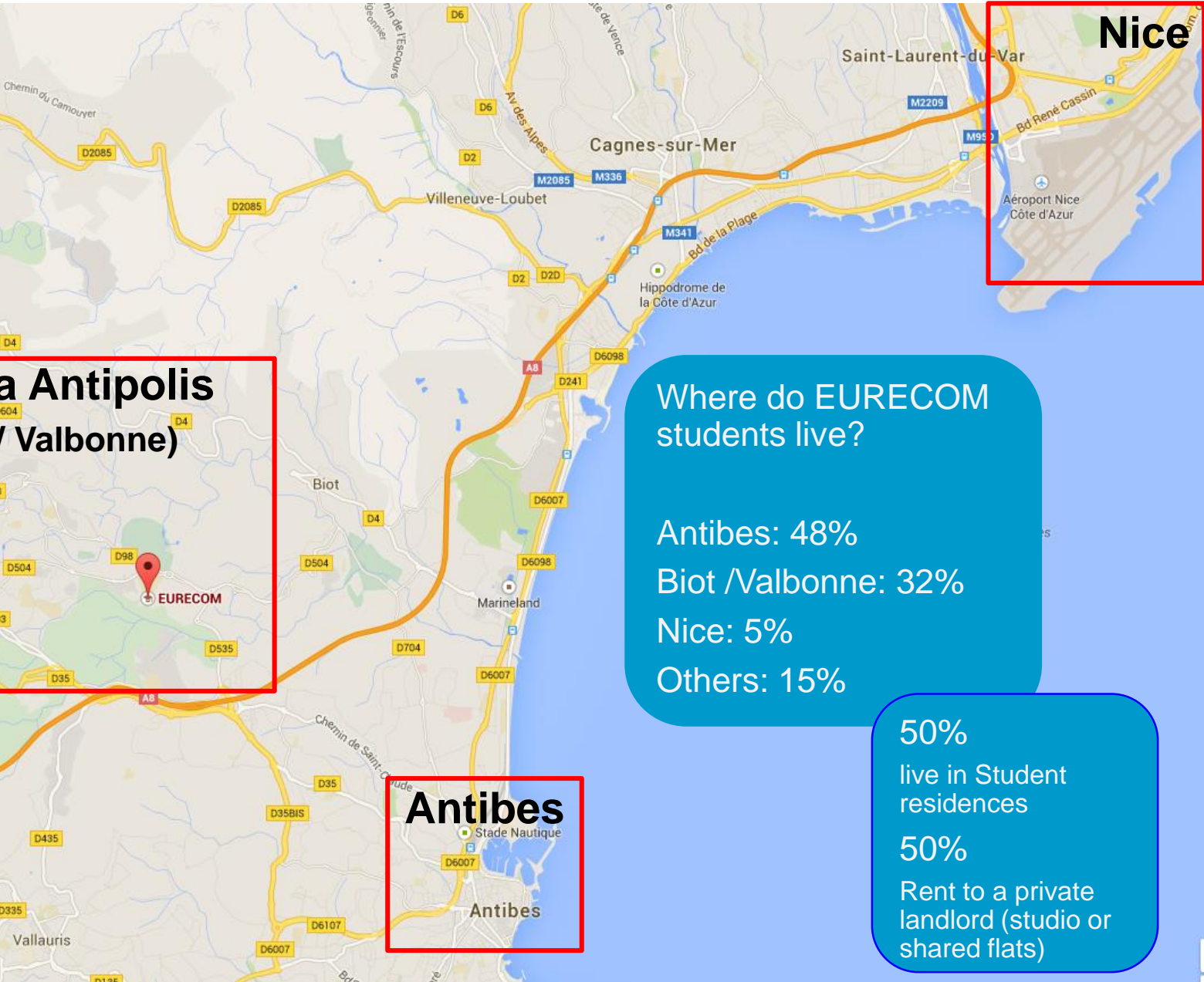


Industry and institution



EURECOM is part of a Brand New Campus called **SophiaTech** and benefits from cutting-edge facilities





EUROPEAN SILICON VALLEY

EURECOM is located in the heart of SOPHIA ANTIPOLIS



2,330	companies
36,300	jobs
4,500	researchers
5,000	students
70	nationalities

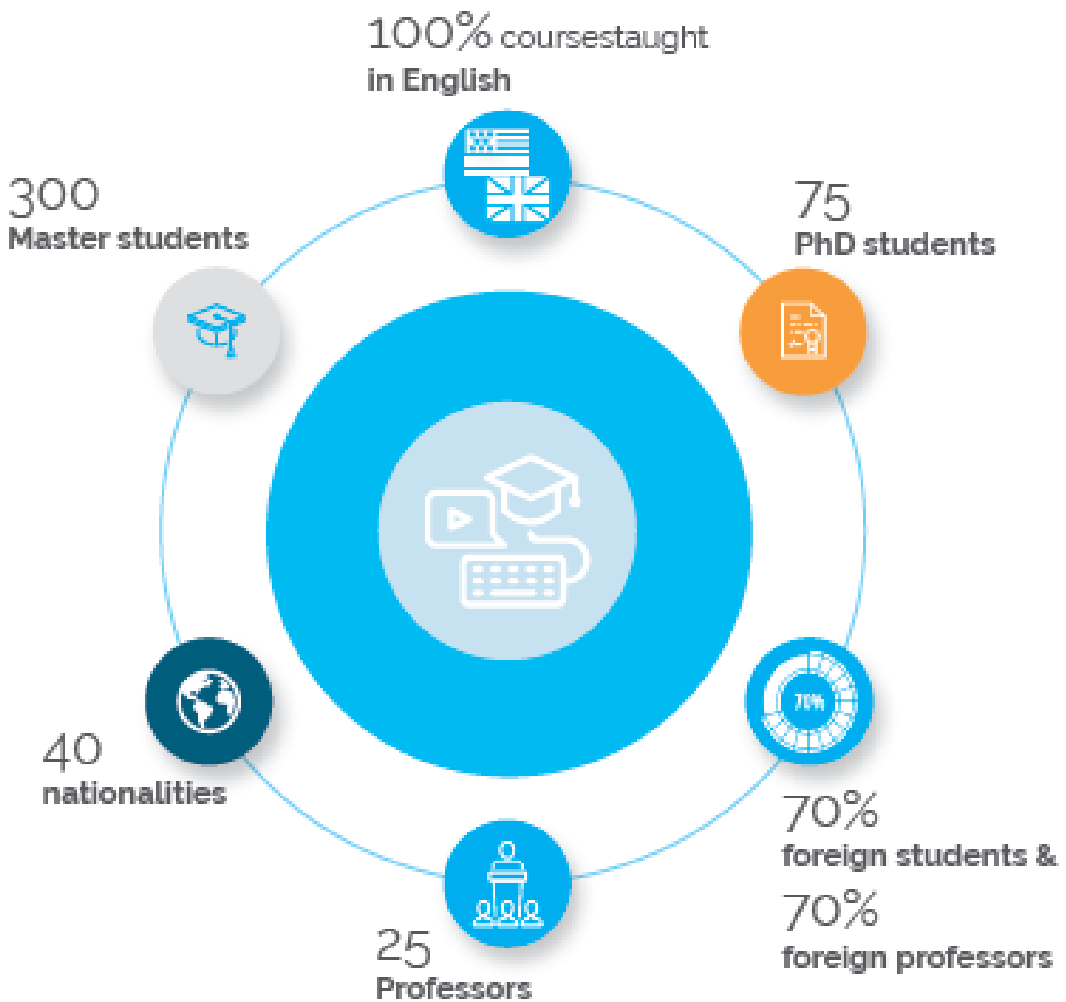
One of the largest techno-parks in Europe

Some of the top companies offering internship opportunities to our Master & Post Master students:



DLR, NXP, Magnetti Marelli, PSA, KMPG, Delivery Hero Germany, Technicolor, HP, Nokia, CEA, Accenture

Diversity is not the exception: it's the norm !



EURECOM IS EXIT UNIVERSITY IN :



With a 2nd year specialization **Mobile and Cloud Security**

The specialization **Mobile and Cloud Security** focuses on mobile systems and the security and privacy issues thereof, with a strong focus on android based smartphones and wireless protocols.

Outcomes:

- Design analysis tools to identify and evaluate weaknesses in mobile devices and applications
- Develop practical protection mechanisms to ensure the safety of mobile devices and applications and Cloud systems
- Develop the ability to effectively communicate results and solutions to stakeholders

DESCRIPTION

Compulsory courses

8 ECTS

Mobile Systems and Smartphone Security
Security and privacy for Big Data and Cloud

5 ECTS
3 ECTS

Elective courses

10 ECTS

Mobile Applications and Services
Mobile Communication Systems
Distributed Systems and Cloud Computing
Machine Learning and Intelligent System

5 ECTS
5 ECTS
5 ECTS
5 ECTS

Compulsory I&E Courses

6 ECTS

I&E Study

6 ECTS

French or another foreign language for French speakers
Semester project

1 ECTS
6 ECTS

Master thesis

30 ECTS

HANDS-ON APPROACH

- **Balanced approach between theoretical input and practical application (Labs, Challenges..)**
- **Guest Speakers from the Industry** <https://call.lifesizecloud.com/5922694>
- **Semester long projects on relevant industrial topics**
- **Visits in nearby companies and introduction to new technologies**



MASTER THESIS

- **Minimum 22 weeks (March to August)**
- **Where:**
 - Industrial Company
 - R&D Lab (recommended for a follow-up PhD)
- **How:**
 - EURECOM provides support for mailing and contacts
 - Students are also encouraged to search for a placement on their own
- **Defense at EURECOM in front of a jury
(one academic + one external expert)**

OPPORTUNITIES IN SOPHIA ANTIPODIS

EURECOM students can browse a database of several hundreds of offers, fueled by the efficiency of its network of partners and relationships with **local, national** and international companies.

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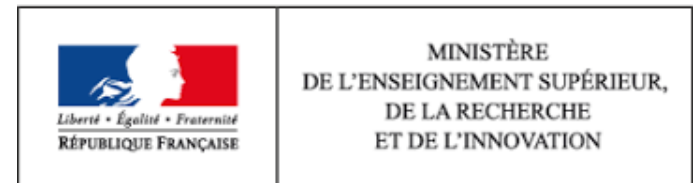


EMPLOYABLE MASTER in BOOMING FIELD

EIT DIGITAL Student will obtain a:

MASTER IN DIGITAL SECURITY

Master's program ("Diplôme National de Master") is fully accredited by the French State and co-delivered by the Institut Mines Télécom,



Master obtained the SecNumedu certification by the National Cybersecurity Agency of France (ANSSI)



Security Dept Organization

- **Three research axes:**

- (1) Security Protocols and Applied Cryptography

- (2) Software & System Security

- (3) Biometrics and Digital Media



Cryptography and Privacy Enhancing Technologies



Antonio Faonio



Melek Önen



Massimiliano Todisco

Cryptography

- Zero-Knowledge Proofs & Public-Key Crypto
- Leakage & Tamper-resilient Crypto

Privacy-preserving Biometrics (TReSPAsS-ETN, RESPECT)

- Cryptography for Biometrics
- Privacy preserving Signal Processing

PETs for Big Data (PAPAYA)

- Cryptography and Machine Learning
- Privacy preserving Data Analytics

S&P for IoT (UpriseloT)

- Distributed Source of Trust
 - Privacy preserving Data Collection
-

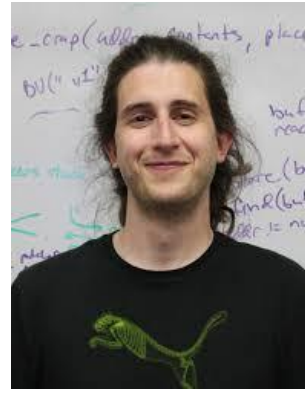
Software & System Security (S3) Group



Davide Balzarotti



Aurélien Francillon



Yanick Fratantonio
(CISCO Thalos)



Marc Dacier

- Web Security
- Online Frauds and Cybercrime
- Malware & Binary Analysis
- Operating System Security
- Computer Forensics

- Embedded System Security
- Reverse engineering
- Wireless Security
- Critical Infrastructure Security
- Android and Mobile Security

→ <http://s3.eurecom.fr/>

Biometrics and Digital Media



Jean-Luc Dugelay



Nicholas Evans

Security and Privacy

- Anti-spoofing, hybrid speaker and utterance verification
- Embedded biometric recognition
- Soft biometrics
- Drones

Automated border control

- Centralised, rapid identity verification

Media signal processing

- Acoustic echo cancellation, artificial bandwidth extension to super-wide bandwidth
- Online speaker diarization
- Deep-learning
- RGB-D, plenoptic sensors
- Open-set acoustic context recognition

INDIVIDUAL ASSISTANCE

- **Human-size school:
Accessible professors and
staff**
- **Favorable professor/students
ratio**
- **A whole team dedicated to
student's administrative life**
 - Administrative assistance: Health insurance, housing, bank account...
 - Help to find a flat and an internship



EURECOM
Student Affairs Team

LANGUAGE AND CULTURAL TRAINING

- A 3-week Intensive program of French language and cultural visits organised in September
- Included in the program (Free of charge for Exchange Students)
- Weekly French courses throughout the academic year



STUDENT ACTIVITIES

EURECOM has a very active Student's association organises many events all year long to fully enjoy your stay in France.



Weekend of Integration



International Meal



International Study trip



Ski Weekend



Many sport activities



Graduation and Alumni Events

STUDENT ACTIVITIES

EURECOM's localization allows our students to enjoy culture, sports and discovery.



60 km from Italy



Gateway to main European Cities with low cost flights



Fine Arts



**Like the cinema ?
Enjoy the Festival de Cannes**

FANCY LIVING IN A VILLA?



*1h30 from the
sky slopes*



30 min the beach



TESTIMONY



HELEN 

EIT student
2018/1019

« Hi all, my name is Helen and I spent my second year of the EIT master in security and privacy at EURECOM in the sunny South of France.

After an very intensive first year at the University of Twente in the Netherlands, I moved to France in August. Already months before I got lots of help from the great administrative team of EURECOM concerning all aspects of moving: finding a flat, insurances, bank accounts, etc.

Many thanks to Gwenaëlle, Philippe, and all the others! You're amazing!

In September, we were offered a free language course to get started with French while having the time to explore a bit the beaches and the mountains, and to meet the other students. It was a great time.

My two favourite courses were BigSec and MobiSec. The professors are extremely passionate, and the material is based on recent research accompanied by interesting practical challenges.

But my personal highlight of the semester was the semester project were we could support professors and PhD students with recent research and explore (+ solve) highly relevant problems that can even end in a publication.

Finally, EURECOM has a great database for finding internships which makes it very easy to get into contact with companies for the master thesis.

To conclude, I enjoyed my time at EURECOM a lot and I am extremely thankful for all the help and support I got there. Many thanks :) »

TESTIMONY

“ My experience at EURECOM was awesome!

Everything started from the early moments I entered the university before the actual courses. I went there to finalize some bureaucratic stuff and immediately realized two things: the first one is the location that was so beautiful, surrounded by the woods and completely isolated from the traffic of the city and the second one is the great help I received from the EURECOM staff.

They are kind, funny and always with a prompt response, and I never had an issue that they couldn't resolve.

Professors are really competent and I found an environment that pushed me hard into my studies, motivating me to do my best.

Another great thing about EURECOM is that it is small and you start knowing all the other students from the early moments, especially if you join all the awesome activities that they organize. You feel you are more in a big family rather than in a public institution.

If this is not enough, I should mention that the weather is always sunny there and you can enjoy a very beautiful see in the weekend.

In conclusion, EURECOM is a perfect match between what you can learn and what you can do, that combines together the competence of its professors and the entertainment of the location. »



PAOLO 

EIT student
2018/1019

TESTIMONY

I spent only 6 months in EURECOM, but I will always treasure it! This was an extremely positive experience for me both from the social and academic point of view. I made so many friends, mainly for all the social events organized by the student organization in EURECOM, like the weekend of Integration.

The teachers were always available to help me with any issues I had. Some of the courses were hard, but still manageable.

But, what really stands out in EURECOM is the amount of help received by its staff...Gwenaëlle and Alexia were always available to help with any issue (even paying taxes to the French government or getting accommodation aid). Audrey was extremely helpful in finding an internship and managing all the paperwork.

In EURECOM I didn't feel like just a student in a University, but more like part of a community with the common goal to get us in the path of a good career!



FATIMA 

EIT student
2018/1019

Academic Coordinator CYBER SECURITY:

Marc Dacier (master-eit-cse@eurecom.fr)



Administrative Coordinator CSE

Philippe Benassi (philippe.benassi@eurecom.fr)



[Link to the Digital Security Department](#)

www.eurecom.fr/en