minmacs

Graduate School in Mathematics & Computer Science

MULTISITE GRAD'SCHOOL

Caen, Rouen, Le Havre

RÉPUBLIQUE FRANÇAISE
Liberté
Égalité
Fraternité

Normandie Université

UNICAEN UNIVERSITÉ CAEN NORMANDIE

UNIVERSITÉ LE HAVRE NORMANDIE

UNIVERSITÉ DE ROUEN

ENSI CAEN

INSA ROUEN NORMANDIE

RÉGION NORMANDIE

The **MINMACS Grad'School** is a joint graduate school of the mathematics and information sciences departments of the three major universities (Caen, Le Havre and Rouen) and Grandes Écoles (ENSICAEN and INSA Rouen Normandie) in Normandy.

The Master's degree program focuses on the interface between mathematics and information sciences with two majors, namely «Mathematical Informatics» and «Data Science», as well as several high-profile interdisciplinary challenges in digital sciences. The program is suitable for those who wish to pursue research by undertaking a PhD and those wishing to enter industry.

MISSIONS

The students, selected according to the highest standards, will be offered:

RESEARCH
In-Lab Embedding, Seminars, Summer School, Workshops, Conferences

TRAINING
Master and Phd Programs, Excellence Scholarships, Personalised Curriculum, Mentorship

INTERNATIONAL MOBILITY
Mandatory, Double-Diploma Agreements, Exchange Programs

TWO MAJORS
"MATHEMATICAL INFORMATICS" & "DATA SCIENCE"

Flagship applications: health, mobility, green energy

MAJOR "MATHEMATICAL INFORMATICS"
- Algebra
- Arithmetics and Number Theory Probability ands Random Structures Dynamical Systems
- Agorithmics and Combinatorics Cryptology

MAJOR "DATA SCIENCE"
- Statistical Data Analysis Machine Learning
- Artificial Intelligence Imaging Sciences & Computer Vision
- Mathematical Modeling, Pdes, Optimization Numerical Analysis & Scientific Computing

KEY NUMBERS

RESEARCH
- **6** laboratories in maths and CS
- **1** doctoral school
- **400** faculty members
- Labs in Shanghai ranking
- Major prizes
- Internationally recognized expertise in digital sciences
- Artificial Intelligence chairs & fundings

TRAINING
- **250** Graduate Master students/ year in our master programs
- **230** Grandes Ecoles graduate students/year

- **160** PhD students
- **40** PhD co-supervised abroad
- **46** PhD defended/y
- **20%** of foreign students in Master's programs
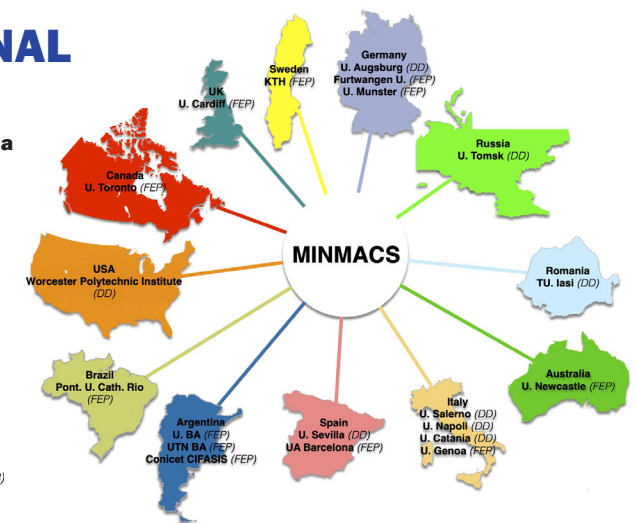- Unique training in digital security, data science and imaging

TECH TRANSFER
- **3** innovation clusters
- Normandy French Tech
- **1** HPC center: CRIANN
- **20** startups
- Innovation prizes and awards
- **32** patents
- **1** common lab with industry

INTERNATIONAL NETWORK

Partners with double-diploma and exchange program commitments

DD: double-diploma agreements (total: 8)
FEP: formal exchange-program agreement (total: 13)

Sweden KTH (FEP)
Germany U. Augsburg (DD) Furtwangen U. (FEP) U. Munster (FEP)
UK U. Cardiff (FEP)
Russia U. Tomsk (DD)
Canada U. Toronto (FEP)
USA Worcester Polytechnic Institute (DD)
MINMACS
Romania TU. Iasi (DD)
Brazil Pont. U. Cath. Rio (FEP)
Australia U. Newcastle (FEP)
Argentina U. BA (FEP) UTN BA (FEP) Conicet CIFASIS (FEP)
Spain U. Sevilla (DD) UA Barcelona (FEP)
Italy U. Salerno (DD) U. Napoli (DD) U. Catania (DD) U. Genoa (FEP)