Université Gustave Eiffel

Field of study Sciences and engineering

Training available in

Initial training Recognition of prior learning

How to apply :

https://www.univ-gustave-eiffel.fr/en/formation/applications-andenrolment/applications

Course venue :

Campus Marne la Vallée - Champs sur Marne - Bâtiment Copernic 5 Boulevard Descartes 77420 Champs-sur-Marne

Calendar :

Foundation classes for one month, then ten weeks of core modules, then eight weeks of specialisation, and finally three to six weeks of work placement, starting from April.

Contacts :

CARAYOL Arnaud (M1-M2)

NICAUD Cyril (M2) Academic coordinator

VANTIEGHEM Nicolas (M2)

Academic secretary Nicolas.Vantieghem@univ-eiffel.fr Phone number : 01 60 95 77 83 Building : Copernic Office : 2B179

SOLTANI Amel Gestionnaire VAE vae@univ-eiffel.fr

More information :

For further details : https://www.univ-gustave-eiffel.fr/international/etudiantsinternationaux Service Information,

Orientation et Insertion Professionnelle (SIO-IP) :

sio@univ-eiffel.fr / Tel : +33 1 60 95 76 76



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Master's degree Computer Science Mathematics and computer science



Institut d'électronique et d'informatique Gaspard Monge (IGM)

Master's degree M2

TO GET THERE

M1 in Mathematics or Computer Science, plus L2-level skills in the other discipline.

ACQUIRED SKILLS

Master's level in areas at the interface of mathematics and computer science: optimisation, analysis, geometry, combinatorics and machine learning. Development of research skills: autonomy, personal work on specialised themes,

Development of research skills: autonomy, personal work on specialised themes, literature review.

Advanced programming skills oriented towards applications in mathematics and computer science.

YOUR FUTURE CAREER

Students can pursue further studies with a PhD in mathematics or computer science.

Jobs in R&D in areas at the interface of the two disciplines, typically optimisation and machine learning.

Classes in machine learning, in particular, promote the development of professional skills that are highly sought after in the private sector, to make graduates immediately operational.

BENEFITS OF THE PROGRAM

This Master's is unique in France, covering both mathematics and computer science, with requirements in both disciplines. It is based on the teaching team's joint extensive experience, developed in the prestigious Bézout Labex.

More information



PROGRAM

SEMESTER 3

Basics in mathematics (ECTS:6) Basics in computer science (ECTS:6) Discrete and continuous optimization (ECTS:6) Probabilistic algorithms and combinatorics (ECTS:6)

- Combinatoire
- Géométrie

- Discrete geometry (ECTS:6) Fondements mathématiques des sciences de données Fondements informatique des sciences des données

SEMESTER 4

Stage (ECTS:18) Data Sciences (ECTS:6) Random graphs and graphons (ECTS:6) Algebraic combinatorics and formal calculus (ECTS:6) Grandes matrices aléatoires et applications (ECTS:6)