

Graduate School in **Statistics** and **Actuarial Sciences** in Belgium



Académie **Louvain**



Académie **Wallonie-Bruxelles**



Académie **Wallonie-Europe**



Our Graduate School ...

The Graduate School in Statistics and Actuarial Sciences is providing the ideal forum for contact and collaboration between all researchers in areas related to statistics, biostatistics, econometrics, biometrics, psychometrics, ... , or related to actuarial sciences.

Becoming a PhD student of our School, you will work in a stimulating environment, open to discussion and exchanges, and you will have the opportunity to develop inter-disciplinary work based on a common methodology.

Your life as a PhD student ...

Also, a major opportunity for you will be to follow intensive short courses, taught by experts in their research areas, which will be organized regularly by the School.

Moreover, you will be stimulated to organize by and for yourself scientific activities (e.g. internal seminars, international young researcher days,...). This kind of challenge yields high motivation and allows you to widen your international collaboration and to open your mind to different areas of specialisations.

Finally, the School actively supports exchanges between students, researchers and professors both for education and research, for example by promoting common projects and joint thesis advisors.

... in the heart of Europe

One of the objectives of the School is to offer you a high quality training to and by research. We, the members of the Graduate School, are working in research teams in a number of geographically close-by Belgian universities. As such we benefit from numerous diverse international contacts. Centrally situated in Europe, Belgium with its capital Brussels maintains connections to its partners both in its neighbouring countries and all over the world.

This is the ideal environment for organising regular research seminars and scientific meetings from which you as a PhD student will benefit through regular advertisements and guidance by your advisor.

ULB

Institut de Recherche en Statistique
(ECARES)

Centre Transdisciplinaire en Modélisation
Stochastique

Service des Sciences Actuarielles
du Département de Mathématique

Département de biostatistique de
l'École de Santé Publique



Services de statistique du Département de
Mathématique

Service d'informatique médicale et
Biostatistique



UCL
Université
catholique
de Louvain

Institut de Statistique

Institut des Sciences Actuarielles

Unité d'épidémiologie, biostatistique
et méthodes opérationnelles de la
Faculté de médecine



Unité de Statistique et Informatique



Unité de Statistique

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What it is all about :

Statistics is an extremely diverse field – on the interaction between developing methodology and applications. Whether you are e.g. fascinated by mathematics and probability as the foundations, by designing a clinical study or by modelling the insurance or financial markets, this is the right place for you. Of course applications are more diverse and can be found, basically, in all fields of human activity, including the natural and medical sciences as well as engineering, economics, and the social sciences.

Our Graduate School and our PhD programs in various directions are a reflection of that diversity. Below are some concrete examples.



Statistics is diverse ...

You might be a student interested in developing statistical methodology from a more theoretical point of view. You will first concentrate on deepening your knowledge in mathematical statistics, probability theory, or stochastic processes. Later you might apply your developments to solve a data analysis or modelling problem. Or you will rather start from a statistical problem and you will search and further develop the appropriate methodological and/or computational tools. In both cases you have a variety of fields to choose from : industrial quality control, psychometrics, chemometrics, bioinformatics, spatial statistics, econometrics, official statistics, survey statistics, ...

... as are the Actuarial Sciences ...

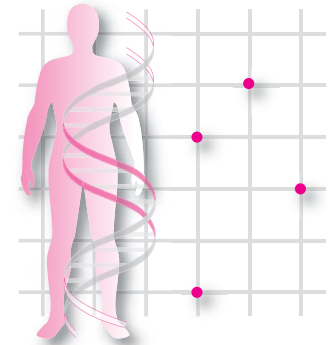
If you are attracted by the risk management for insurance companies, pension-funds and banks, start discovering the financial challenges of the future, learn how to model the uncertainty of insurance, pension and financial markets, how to draw the calculation of what tomorrow will be done, at the intersection of probability, statistics, finance, economy, and demography.



And what about Biostatistics?

Quetelet with life tables, Galton and Pearson with regression, Fisher and Hill with randomization : famous pioneers in biostatistics because they were medical problem oriented.

If you are interested in statistics for solving problems that arise in human biology, medicine, and all health aspects of the human community, look at biostatistics. In clinical or prevention trials, in genetics, in epidemiology and search for sources of health risk, or in health services research, you will learn to stay on the bridge between statistical theory and scientific investigation in biomedicine.



Become a PhD student of our School ...

Diverse as they are, all those profiles, however, have one point in common: their ultimate objective remains extracting relevant information in order to help people to optimize their decisions.

Join our Graduate School and enjoy our diversity in meeting and discussing with your peers and your teachers!