



The Institute of Statistics, Biostatistics and Actuarial Sciences (ISBA) of the Université catholique de Louvain (UCLouvain), Louvain-la-Neuve, Belgium, and

The Namur Institute for Complex Systems (naXys) of the Université de Namur (UNamur), Namur, Belgium

have vacancies for

2 PhD positions

as part of their joint 2020 *Action de recherche Concertée* (ARC) call entitled “Imperfect Data: From Mathematical foundations to Applications in Life sciences” (IMAL).

Job description

Preference will be given to candidates with interest and experience in one or several of the following topics :

- survival analysis
- regression models
- measurement errors
- high-dimensional statistics
- functional data analysis

The candidates will work in a mixed research group consisting of 6 academic members together with their PhD students and postdocs. The research group works on a variety of research questions dealing with imperfect data, ranging from theoretical to more applied problems, using both Bayesian and frequentist approaches. Areas of applications include environmental sciences and medical statistics.

- *Position 1 (ISBA, UCLouvain)* : supervision of the PhD student by Anouar El Ghouch, Philippe Lambert, Catherine Legrand, Eugen Pircalabelu or Ingrid Van Keilegom.
- *Position 2 (Department of Mathematics and naXys, UNamur)* : supervision of the PhD student by Germain Van Bever.

Job requirements

Master degree in (bio)statistics or a related discipline. The diploma must have been obtained with at least distinction or an equivalent grade. Good knowledge of written and spoken English is required. Knowledge of French is not required.

Terms of employment

A tax-free monthly grant of up to 4 years. The candidate might be involved on a small scale into some teaching activities.

Research environment

Both institutes are renowned research centres of high international reputation offering a very stimulating working environment. The Institute of Statistics, Biostatistics and Actuarial Sciences (ISBA: <http://www.uclouvain.be/isba>) is composed of around 30 pre- and postdoctoral researchers working under the supervision of 10 full-time professors, in a variety of fields of methodological and applied statistics, including biostatistics and actuarial sciences. The Namur Institute for Complex Systems (naXys, <http://www.naxys.be>) is composed of 80 members, among which 25 pre- and postdoctoral students and 11 full-time professors in the Department of Mathematics (to which the candidate for Position 2 will be attached). The Institute is active in the field of complex systems, with a broad expertise in applied mathematics and statistics.

The candidates will be integrated into the Graduate School in Statistics and Actuarial Sciences which offers them an up-to-date training in their field via regular seminar series, short courses and workshops, all in English and often given by international short and long-term visitors. The candidates will also benefit from ISBA's and naXys' large international research network, with numerous academic contacts, including those to neighboring fields (medicine, agronomy, social science, economy, finance and engineering) as well as collaborations with industry.

Information

For further information, please contact

- Prof. C. Legrand (catherine.legrand@uclouvain.be) (chair).
- Prof. A. El Ghouch (anouar.elghouch@uclouvain.be)
- Prof. Ph. Lambert (philippe.lambert@uclouvain.be),
- Prof. E. Pircalabelu (eugen.pircalabelu@uclouvain.be),
- Prof. I. Van Keilegom (ingrid.vankeilegom@uclouvain.be), or
- Prof. G. Van Bever (germain.vanbever@unamur.be).

For administrative questions or for more information regarding the application procedure, please contact Nancy Guillaume (UCLouvain: nancy.guillaume@uclouvain.be) or Pascale Hermans (UNamur: pascale.hermans@unamur.be).

Application

Please send the following documents to N. Guillaume (nancy.guillaume@uclouvain.be) **and** P. Hermans (UNamur: pascale.hermans@unamur.be).

- a letter of motivation, **clearly** mentioning the position(s) for which you are applying
- your curriculum vitae
- a list of passed courses and grades
- copy of diplomas
- at least one reference letter to be sent by email directly by the referee.

The closing date for application is **22 June 2020** (applications received after June, 22nd will be considered as they arrive, until the position is filled). Only duly completed applications can be taken into account.

Starting date

1 October 2020, or at another date to be agreed upon by all parties.