

Two years postdoc position in signal processing and Monte Carlo methods applied to epidemiology

Supervised by B. Pascal, J. Idier and S. Bourguignon

Laboratoire des Sciences du Numérique de Nantes (LS2N), France

Description of work

The purpose of the postdoc position is to design Markov Chain Monte Carlo samplers accompanied with or including hyperparameter selection for credibility interval estimation of epidemiological indicators, e.g., for the reproduction number R_t of Covid19.

Host institution and place of work

The recruited candidate will be hired by the Centre National de la Recherche Scientifique (CNRS). CNRS is a the largest state-funded french research institution, employing researchers in all fields from exact sciences to humanities. He/she will integrate the Laboratoire des Sciences du Numérique de Nantes (LS2N), in the Signal, Image and Sounds (SIMS) team (<https://www.ls2n.fr/equipe/sims/>).

Collaboration with: B. Pascal (Junior researcher, LS2N), Jérôme Idier (Research director, LS2N), Sébastien Bourguignon (Assistant professor, LS2N)

Consortium:

- P. Abry (Research director, LP-IXXI)
- G. Fort (Research director, IMT)
- B. Pascal (Junior researcher, LS2N)