

PhD Student on “Stochastic approach for the internal behavior modelling of long memory systems” at the University of Bordeaux, France

Supervisor: Christophe Farges (christophe.farges@ims-bordeaux.fr)

Employment: 3 years, full French PhD salary (\approx 1500 euros per month after taxes) + insurances, conditional to positive admission into the doctoral school

Key dates: To receive full consideration, applicants need to contact the supervisors no later than July 2018. Position starts in October 2018

Context: This work will be carried out in the CRONE team of IMS Laboratory in Talence (close to Bordeaux, south of France). One of the main research topics of the team is the development of analysis and design methods based on fractional order differentiation. Fractional order models are indeed able to describe accurately, and with a limited number of parameters, the input output behavior of so-called long memory models in various fields such as electrochemistry ; heat science ; biology ; mechanics ; acoustics ; robotics ; electronic engineering ; image processing ; economics. The objective of the PhD thesis is the study of internal stochastic processes that can generate a long memory input-output behavior (that can be captured accurately using fractional order models).

Candidate profile: The candidate will have a MS degree in Applied Mathematics, Control Systems, or related disciplines.

For more information please visit :

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