

Senior Research Associate - University of Bristol - School of Mathematics

“New Approaches to Bayesian Data Science”

The position is for up to four years.

Interview Date: Early October 2019

Apply at <http://www.bristol.ac.uk/jobs/find/> (reference ACAD103715)

We invite applications for a Post-Doctoral Research Associate to join the School of Mathematics at the University of Bristol to work with Prof. Christophe Andrieu (School of Mathematics) and Prof. Mark Beaumont (Life Science) on new approaches to tackle Bayesian inference in complex statistical models arising in particular in the area of Health Science, with a focus on genetics and/or epidemiological aspects.

The position is associated with a £3M programme funded by EPSRC, Bayes4Health (<http://www.lancaster.ac.uk/newbayes/>), and brings together research groups from the Universities of Lancaster, Bristol, Cambridge, Oxford and Warwick. Active collaboration across the partner institutions, other project partners and the programme grant CoSInES (<http://www.cosines.org>) is expected. The position is for up to four years.

You should have, or be close to completing, a PhD in Statistical Science, Machine learning or a related discipline. You will work directly with the investigators to undertake and support the research necessary to achieve the project aims. This will include, for example, publishing in leading statistical/application journals, presentation of research at workshops and conferences, developing code implementing new statistical methods, and active involvement in project meetings. You will be experienced in one or more of the following areas: Bayesian statistics, computational statistics, statistical machine learning, statistical genetics, inference for epidemics. You will have demonstrated the ability to develop new statistical methodology. We are particularly keen to encourage applicants with strong methodological and computational skills and are looking to put together a team of researchers with skills that cover theoretical, methodological and applied statistics. A demonstrable ability to produce academic writing of the highest publishable quality is essential.

Candidates who are considering making an application are strongly encouraged to contact Prof. Christophe Andrieu ([c.andrieu@bristol.ac.uk](mailto:c.andrieu@bristol.ac.uk)) to discuss the programme in greater detail.