

University College London

Applications are invited for two PhD funding opportunities to conduct research in a branch of probability or statistics based in the [UCL Department of Statistical Science](#), commencing in September 2019. This funding is provided by the Engineering and Physical Sciences Research Council (EPSRC).

The studentships will be 4 years in duration (or 6 years for part-time candidates) and cover tuition fees at the UK/EU rate, an annual stipend (17,009 GBP in 2019/20) and a small allowance for consumables. To be eligible for a full award, applicants must normally have no restrictions on how long they can stay in the UK and have been ordinarily resident in the UK for 3 years prior to the start of the studentship.

The following projects are available (outline descriptions are provided in a separate document accessible from the below link). Alternatively, a candidate may propose their own topic, provided that it has already been discussed with a prospective supervisor in the department.

- (1) Analysis of Raman images for early detection of cancer
- (2) Bayesian functional data analysis with an application to modelling the effect of training on performance in sport
- (3) Causal inference in sequential off-policy scenarios, with applications to the digital economy
- (4) Economic modelling applications of reinforcement learning techniques
- (5) From massive to individualised path planning analysis
- (6) Modeling of contagion effects in financial markets
- (7) Stochastic models in genetics: using DNA sequence data to learn about population divergence and speciation

The requirement for admission to the MPhil/PhD in Statistical Science is a 1st class or high upper 2nd class Bachelor's degree, or a Master's degree with merit or distinction, in Mathematics, Statistics, Computer Science, or a related quantitative discipline. Overseas qualifications of an equivalent standard are also acceptable.

Further information, including details of how to apply, is available at:

https://atsv7.wcn.co.uk/search_engine/jobs.cgi?owner=5041394&ownertype=fair&jcode=1795365.

Applications will be considered on a rolling basis, the first batch on 31 March 2019, until the studentships are filled.