

Fully Funded Doctoral Studentship in Deep Learning for Neuroimaging

Student Fee Status : Home

Supervisor: Dr Ana Namburete

Start Date: October 2022

The Department of Computer Science at the University of Oxford is offering **one** fully funded DPhil studentship for home students at the intersection of two themes: Artificial Intelligence, and Computational Biology and Health Informatics. The candidate will work under the supervision of Dr Ana Namburete, to commence in the next academic year (October 2022).

The successful applicant will join the [Oxford Machine Learning in NeuroImaging \(OMNI\) Lab](#). This multi-disciplinary group spans across Computer Science, Biomedical Engineering, Clinical Neurosciences, and Obstetrics. Research focuses on the combination of machine learning and advanced image analysis to understand spatial and temporal processes of structural maturation and deterioration of the human brain from large-scale population data. In this doctoral project, the aim will be to develop deep learning-based tools that are not biased to a particular population, and are thus applicable to out-of-distribution data.

The group regularly presents their work at leading conferences in Medical Image Analysis, Computational Medicine, and NeuroImaging. The successful candidate will have the opportunity to collaborate with other members of group, and to utilise the methods, models and software developed in the group towards their own research objectives.

Please see the links for more information about [Dr Ana Namburete's research](#) and the [OMNI Laboratory](#).

The studentship will provide an annual stipend (at the UKRI rate) at least £15840 per annum for 3.5 years (42 months). The studentship will also cover the costs of course tuition fees **at home level**. Research students in the Department of Computer Science are also provided with a fund for travel to conferences and workshops (subject to approval).

Applicants must satisfy the usual requirements for studying for a doctorate at Oxford, and apply for admission via the [DPhil in Computer Science](#), quoting studentship reference **22-CS-AN**. Candidates are expected to have a strong computational and/or mathematical background, with undergraduate studies in Computer Science, Engineering, Physics, Mathematics or related disciplines. Candidates must also have good writing, communication and presentation skills (see the University's web pages on the [DPhil in Computer Science](#) for details).

For further information or for informal discussions about suitability, please contact Dr Ana Namburete (ana.namburete@cs.ox.ac.uk). For further information about the studentship or the application process, please e-mail [Computer Science Graduate Admissions](#).