

PhD studentships in Neural Data Science

Contact:

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PhD studentships are available in Neural Data Science, with Principal Investigator Dr Michael Schmuker. Potential topics include

- Machine learning with noisy data
- Brain-inspired pattern recognition
- Olfaction-inspired signal processing for electronic gas sensors

Our general aim is to translate processes and algorithms from Biology and Neuroscience to Computing. We collaborate with world-leading neuroscience labs in the UK and abroad to investigate how the brain processes dynamic sensory information. As a member of the Human Brain Project we pioneer the use of novel, brain-inspired “neuromorphic” computer hardware for Data Science.

Our methods include supervised and unsupervised machine learning, simulations of spiking networks and neuromorphic computing, signal processing. For a list of recent projects and publications please refer to the web pages of the BioMachineLearning Project (<http://biomachinelearning.net>).

We are looking for candidates with one or more of the following skills:

- Data science and Machine Learning
- Computational Neuroscience
- Neuromorphic computing
- GPU computing
- Computer engineering

Successful candidates are eligible for a research studentship award from the University (approximately GBP 14,550 per annum bursary plus the payment of the standard UK student fees). Applicants from outside the UK or EU are eligible.

Please liaise with Principal Investigator Dr. Michael Schmuker prior to application, via email: m.schmuker@herts.ac.uk.

Application forms can be obtained from Mrs Lorraine Nicholls, Research Student Administrator, STRI, University of Hertfordshire, College Lane, Hatfield, Herts, AL10 9AB, Tel: 01707 286083, l.nicholls@herts.ac.uk. The short-listing process will begin on 8 January 2018.