PhD studentships in Olfactory Biocomputation

We solicit applications for a fully funded PhD position in the Biocomputation Research group at the University of Hertfordshire. Our research on Olfactory Biocomputation encompasses the following topics:

- Olfactory computing in insects and vertebrates
- The role of stimulus dynamics in olfaction
- Chemical “receptive fields” of odorant receptors
- Neuromorphic computing and bio-inspired signal processing for chemical sensing

Our spectrum of methods covers data science and machine learning, simulation of spiking networks, cheminformatics, and neuromorphic computing. For a list of recent projects and publications please refer to the web pages of the BioMachineLearning Project (http://biomachinelearning.net) and the Biocomputation Group (http://biocomputation.herts.ac.uk/).

The successful candidate should ideally have previous experience in one or more of our research methods, but a keen interest in our research topics is considered pivotal. Excellent programming skills are required and should be documented upon application. Most of our code is written in Python. Depending on the area of work, the successful candidate will join our collaborative research with excellent experimental research groups, e.g. by Prof. Andreas Schaefer (Francis Crick Institute, London), Dr. Markus Knaden and Dr. Silke Sachse (Max-Planck Institute for Chemical ecology, Jena, Germany).

The student will be supervised by Drs. Michael Schmuker (m.schmuker@biomachinelearning.net) and Volker Steuber (v.steuber@herts.ac.uk). Informal enquiries by email prior to application are encouraged and very welcome.