

## PhD studentships in Chemical Informatics for Olfaction

Contact:

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A PhD studentship is available in Chemical Informatics for Olfaction, with Principal Investigator Dr Michael Schmuker. Potential topics include:

- Pattern recognition in chemical space
- Structure-activity relationships for odorant receptors
- Scent prediction for small molecules

We investigate how chemical structure gives rise to a percept of scent. We collaborate with neuroscientists and perfumers to gain insight into how the brain extracts information from the chemical world. We analyse structure-activity relationships between odorants and their receptors in the nose, and potential relationships between molecular structure and the human percept of scent.

We are looking for highly motivated candidates who are keen to explore the interface between the chemical world and the brain. Previous experience in Machine Learning (supervised and unsupervised learning) or Molecular Modelling is a plus.

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](mailto: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](mailto:l.nicholls@herts.ac.uk). The short-listing process will begin on 8 January 2018.