

# Queen Mary University of London

## School of Electronic Engineering and Computer Science

### PhD Studentship in Community and the Statistics of Communication

Applications are invited for a PhD Studentship to undertake research in the area of **mathematical models of social networks**, starting September 2011. The PhD project will conduct statistical investigations of the School's large corpus of chatroom logs and, on the basis of these investigations, will develop mathematical models of change in social networks. The aim is to discover relationships between changes in social group membership and communication patterns: it will address questions such as the magnitude, frequency and timescale of the changes in group membership, the extent to which these changes can be detected by changes in communication patterns, and the reliability of group members' own perspective on the dynamics of the social groups that they are members of.

This position, under the supervision of Dr. Graham White (<http://www.eecs.qmul.ac.uk/~graham>) and Dr Raul Mondragon (<http://www.elec.qmul.ac.uk/people/raul/index.htm>), is funded by a Queen Mary Doctoral Training Account. The successful candidate will be based within the Information, Media and Communication research group (<http://www.dcs.qmul.ac.uk/researchgp/imc/>) in the School of Electronic Engineering and Computer Science, Queen Mary University of London. Candidates should have a first or upper second honours degree or equivalent in either Computer Science and related scientific fields (Mathematics, Physics, or Engineering), or in the social sciences: whatever their background, they should be able to demonstrate some combination of mathematical skills together with the analytical skills characteristic of the social sciences, although we will be flexible about the balance between the two skill sets. The project will, however, involve some degree of data mining, so appropriate programming and statistical skills are also required.

The studentship will cover student fees and a tax-free stipend starting at £15,590 per annum and is available to candidates of all nationalities.

Informal enquiries can be made by email to Dr. Graham White: ([graham at eecs.qmul.ac.uk](mailto:graham@eecs.qmul.ac.uk)).

An application form can be obtained at <http://www.qmul.ac.uk/postgraduate/apply/>

**To apply please email the following documents to Dr. Graham White ([graham at eecs.qmul.ac.uk](mailto:graham@eecs.qmul.ac.uk)): a completed application form, a CV listing all publications, your representative publications in PDF format, 3 reference letters, a research statement and other relevant documents as requested (see [www.qmul.ac.uk/postgraduate/apply/](http://www.qmul.ac.uk/postgraduate/apply/)). These documents must also be submitted online following the instructions given in the link.**

**The closing date for the applications is 15 June 2011.**

**Interviews are expected to take place during w/c 20 June 2011.**