Advice and Guidance on MSc Projects

Please note that a project registration form must be submitted to us by no later than **Wednesday of week 7, Hilary Term (2nd March 2016)**. It should be handed to Sarah Retz (room 112).

In addition to this, you will need to submit a project proposal. The project proposal must be handed in to Sarah Retz no later than **Monday of week 1, Trinity Term (25th April 2016).**

Available projects can be found here:

http://www.cs.ox.ac.uk/teaching/studentprojects/MSCinCS

Project Registration

You should submit the registration form with either a single project title, together with a signature of the supervisor, or a list of at least three projects for which you have (or are doing) the stated prerequisites. We would encourage you to talk to potential supervisors and select a specific project if possible. However, if you are not able to do this, then the Projects Committee will endeavour to find a suitable person to supervise one of the projects you have listed. If you do supply a list projects you are interested in, then please make sure that they are selected from at least two different possible supervisors.

Although some students do projects that are jointly supervised with another department or industry you should remember that the project has to be relevant to computer science and should demonstrate your understanding and ability to exploit and integrate the material you have learnt from the courses you have taken.

Please note the regulations stipulate that you must demonstrate a link between your project and the taught part of the course.

In making your choice of project, you may wish to look at previous projects held in the Library and online here: http://www.cs.ox.ac.uk/msctheses. Below are some that were awarded a distinction in the MSc in Computer Science, 2014 and 2015*:

Assael, Ioannis-Alexandros	*Bayesian Optimization for Heteroscedastic Functions*
Bogdanovic, Miroslav	*Deep apprenticeship learning for playing video games*
Campbell, Simon*	*Non-uniformities in the RC4 Stream Cipher*
Chan, Iat*	*Input Method Engine by Long Short Term Memory Recurrent Neural Network*
Cheng, Jianpeng	*Investigating the Role of Prior Disambiguation in Deep-learning Compositional Models of Meaning*

Das, Sudakshina	*Information Flow Analysis and Handling Library Calls*
Demiraj, Alban	*Deep Learning for Natural Learning*
Devlin, Matthieu	*Predicting Graphical Passwords*
Fouilloux, Clement	*Analysis, Design and Modelling of DNA Biosensors*
Jin, Lin*	*Communication Efficient Distributed Optimization*
Kanjanabose, Rassadarie	*An Empirical Study on Parallel Coordinates and Scatter Plots*
Kotzias, Dimitrios	*Multi-Instance Deep Learning*
Li, Shijian	*Verifying Haskell Programs Using Higher-Order Model Checking*
Lyon, Aurore	*Novel QRS-based biomarkers for risk stratification in hypertrophic cardiomyopathy*
Markovikj, Dejan	*Deep Apprenticeship Learning for Playing Games*
Perez Orozco, Bernardo*	*Learning relational structures from birdsong*
Schleich, Maximilian*	*Learning Regression Models over Factorized Joins*
Shakespeare, Hillary	*Making Clicks More Valuable: Increasing Engagement with Interactive Surveys*
Sher, Varshita*	*An Empirical Study on Perception of Correlation using Scatter Plots*
Turc, Iulia-Raluca	*Recurrent Neural Networks for Statistical Machine Translation*
Whitaker, James Meredith	*Steganalysis in Overlapping Images*
Whitby, Max*	*The Construction and Verification of Asynchronous Components Built from Chemical Reaction Networks*
Wijesuriya, Viraj*	*An integrated approach to model learning and model verification*

Please make sure that you also read the section in the MSc Course Handbook on projects.

Please also be aware that in Trinity Term there will be a session on writing skills. All students are expected to attend as this will provide you with helpful guidance for your project. Details on the time and location will be provided nearer to the time.

Project proposals fall into two categories: there are specific proposals put forward by members of the department which can be discussed with the academic concerned,

and some members of the department have put forward general areas in which they would be prepared to supervise projects.

If you have a project of your own in mind you can discuss it with the academic whose interests fall into this area.

Please complete the Project Registration Form and return it to Sarah Retz in room 112 by **Wednesday of week 7, Hilary Term (2nd March 2016).**