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 (**^{1st} **March 2017)**. It should be handed to Sarah Retz-Jones (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 (24**th **April 2017).**

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 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 of the project that were awarded a distinction in the MSc in Computer Science in 2014, 2015 and 2016:

Student name	Year	Project title
Assael, Ioannis-Alexandros	2014	Bayesian Optimization for Heteroscedastic Functions
Bhatti, Shehroze	2016	Playing Doom with Deep Reinforcement Learning
Bigourdan, Pierre-Yves	2016	Distributed and Multi-Threaded Learning of Regression Models
Bogdanovic, Miroslav	2014	Deep apprenticeship learning for playing video games
Campbell, Simon	2015	Non-uniformities in the RC4 Stream Cipher
Chan, lat	2015	Input Method Engine by Long Short Term Memory Recurrent Neural
		<u>Network</u>
Cheng, Jianpeng	2014	Investigating the Role of Prior Disambiguation in Deep-learning
		Compositional Models of Meaning
Das, Sudakshina	2014	Information Flow Analysis and Handling Library Calls
Demiraj, Alban	2014	<u>Deep Learning for Natural Learning</u>
Devlin, Matthieu	2014	<u>Predicting Graphical Passwords</u>
Edwards, Davidson	2016	Prototyping a Web-based Framework to Interface with Human
		Resource Allocation Algorithms and Compare Human Resource

		Assignments
Fouilloux, Clement	2014	Analysis, Design and Modelling of DNA Biosensors
Funke, Ignacio	2016	The Span Construction Interpretations and Applications
Han, Dongge	2016	Mixed Strategy Nash Equilibria in Boolean Games
Hunter, David	2016	Improving Exploration in Deep Reinforcement Learning
Jin, Lin	2015	Communication Efficient Distributed Optimization
Kanjanabose, Rassadarie	2014	An Empirical Study on Parallel Coordinates and Scatter Plots
Kotzias, Dimitrios	2014	Multi-Instance Deep Learning
Li, Shijian	2014	Verifying Haskell Programs Using Higher-Order Model Checking
Lind, Christine	2016	Wearable Sensors for Post-Op Joint Rehabilitation
Liu, Siqi	2016	txt2calories: Nutrition Estimation via Natural Languages
Lyon, Aurore	2014	Novel QRS-based biomarkers for risk stratification in hypertrophic
		<u>cardiomyopathy</u>
Markovikj, Dejan	2014	<u>Deep Apprenticeship Learning for Playing Games</u>
Moscholios, Nicolaos	2016	<u>Automated Visualised Translation from English to British Sign</u>
		<u>Language</u>
Mossalam, Hossam	2016	Multi-Objective Deep Reinforcement Learning
Ocampo, Ernesto	2016	A Fast Molecular Double Docking Algorithm for Catalysis Prediction
Penman, Richard	2016	Web Data Extraction Optimization: From User Interaction To Web
Penman, Richard		<u>Server Communication</u>
Perez Orozco, Bernardo	2015	<u>Learning relational structures from birdsong</u>
Prastitis, Angelos	2016	<u>Inconsistency-Tolerant Query Answering On Probabilistic Databases</u>
Rathje, William	2016	A Rapid Method for Constructing Perceptually Uniform Color Spaces
		<u>from User Surveys</u>
Sadde, Alberto	2016	Consolidation of Haskell Programs Semantic fusion of maps, filters and
Sadde, Alberto		<u>folds</u>
Schleich, Maximilian	2015	<u>Learning Regression Models over Factorized Joins</u>
Shakespeare, Hillary	2014	Making Clicks More Valuable: Increasing Engagement with Interactive
		Surveys
Sher, Varshita	2015	An Empirical Study on Perception of Correlation using Scatter Plots
Snorrason, Arni	2016	<u>Visual Representation of Constraint Satisfaction Problems</u>
Tena Cucala, David	2016	<u>Datatype Reasoning in PAGOdA</u>
Tissier, Antoine	2016	Computer models and classification algorithms for drug cardiac
		<u>assessment</u>
Turc, Iulia-Raluca	2014	Recurrent Neural Networks for Statistical Machine Translation
Whitaker, James Meredith	2014	<u>Steganalysis in Overlapping Images</u>
Whitby, Max	2015	The Construction and Verification of Asynchronous Components Built
		<u>from Chemical Reaction Networks</u>
Wijesuriya, Viraj	2015	An integrated approach to model learning and model verification
Zhelezniak, Vitalii	2016	Boosting Radial Threshold Classifiers

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-Jones in room 112 by Wednesday of week 7, Hilary Term (1st March 2017).