



SAID BUSINESS SCHOOL, University of Oxford

SEMINAR SERIES / Trinity 2013

For further information please contact the Cabdyn Administrator:

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Seminar webpage:  
[www.cabdyn.ox.ac.uk/complexity\\_seminars.asp](http://www.cabdyn.ox.ac.uk/complexity_seminars.asp)

Sandwiches and drinks will be provided

Please note: although the seminar programme detailed was correct at time of printing, seminar arrangements are subject to change - for the latest information, please check the seminar webpage.

## 'Analytical approaches to network dynamics'

**Thilo Gross**

Department of Engineering Mathematics,  
Merchant Venturers School of Engineering, University of Bristol

Tuesday 30<sup>th</sup> April 2013, 12.30 -14.00

Andrew Cormack Seminar Room, Saïd Business School

### ABSTRACT:

In this talk I will revisit a number of well-studied problems concerning dynamics on and of networks. My aim is to identify the overarching features that have made analytical progress in these problems possible. Building on these insights I will show some examples of my recent work where the same principles are applied to solve current problems. Among other results I will present a method to design temporal motifs that have distinct implications for the dynamics on a network regardless of the embedding network structure.