

SAID BUSINESS SCHOOL, University of Oxford

SEMINAR SERIES / Hilary 2012

Convenor: Felix Reed-Tsochas, Institute for Science, Innovation and Society, Saïd Business School

For further information please contact the Cabdyn Administrator:

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Seminar webpage: www.cabdyn.ox.ac.u k/complexity_semina rs.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.



Tuesday 7th February (12.30pm - 2.00pm) Seminar Room A

Dr Co-Pierre Georg

Interdisciplinary Group of Complex Systems, Department of Mathematics, Universidad Carlos III de Madrid

"Interbank networks, contagion, and common shocks"

ABSTRACT

This paper proposes a dynamic multi-agent model of a banking system with central bank. Banks optimize a portfolio of risky investments and riskless excess reserves according to their risk, return, and liquidity preferences. They are linked via interbank loans and face stochastic deposit supply. Evidence is provided that the central bank stabilizes interbank markets in the short-run only. Comparing different interbank network structures, it is shown that moneycenter networks are more stable than random networks. Systemic risk via contagion is compared to common shocks and it is shown that both forms of systemic risk require different optimal policy responses.





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