



SAID BUSINESS SCHOOL, University of Oxford

## SUMMER SEMINAR 2011

Convenors: Felix Reed-Tsochas, Institute for Science, Innovation and Society,  
Saïd Business School  
Eduardo López, Saïd Business School

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

Tea, Coffee and  
cakes 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.

Thursday 14<sup>th</sup> July  
(4.00 - 5.30pm) James Martin Seminar Room

Dr Juyong Park

Department of Physics, Kyung Hee University, Seoul

'Markov Chains as descriptors of human mobility, and  
possible applications'

### ABSTRACT

Rapid advances in modern communication technology are enabling the accumulation of large-scale, high-resolution observational data of spatiotemporal movements of humans. Classification and prediction of human mobility based on the analysis of such data carry great potential in applications such as urban planning as well as being of theoretical interest. A robust theoretical framework is therefore required to study and properly understand human motion. We present the eigenmode analysis of human motion data gathered from mobile communication records, which allows us to explore the scaling properties and characteristics of human motion.

