

**University of California, Irvine
Statistics Seminar**

Human Mobility, Model Selection, and Contingency Tables

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**Thursday, May 31, 2018
4 p.m., 6011 Bren Hall
(Bldg. #314 on campus map)**

In this work we develop a new framework for selecting graphical loglinear models that is suitable for analyzing hyper-sparse contingency tables. We show how multi-way contingency tables can be used to represent geolocated trace data collected from smartphones. This type of data has opened new research avenues in the study of human mobility. We analyze a dataset of geolocated tweets from South Africa that comprises 46 million latitude/longitude locations of 476,601 Twitter users that is summarized as a contingency table with 214 variables.

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<http://www.ics.uci.edu/about/visit/index.php>