Title: On the testability of the CAR assumption

In recent years a popular non-parametric model for coarsened data is an assumption on the coarsening mechanism called Coarsening At Random (CAR). It has been conjectured in several papers that this assumption cannot be tested by the data, i.e., the assumption does not restrict the possible distributions of the data. In this talk we will show that this conjecture is not always true; an example will actually be current status data, for which we will show that there exists a set of distributions of the data which can be separated from the possible distributions you
get assuming CAR by two linear tests. We will also give exact conditions when the conjecture is true, and in doing so, we will introduce a generalized version of the CAR assumption. As an easy consequence we will show that in right-censored data, the CAR assumption cannot be tested.