**Identifiability of Discrete Models with Hidden State**

(Work in progress) I show that, for a discrete model, the identifiability problem can be cast as a system of multivariate polynomial equations. This has some immediate consequences; for instance, an infinite-horizon dynamic model is identified if and only if it is identified at some finite horizon T. More generally, identifiability of a given model is not robust to common variations of the model specification, which explains why general results have been surprisingly elusive. I suggest an alternative procedure which will help the practitioner decide if their model is identified on a case-by-case basis. The procedure applies to a wide class of models: static, dynamic, persistent heterogeneity, regime switching, single-agent, multi-agent, etc. Although my examples are small-dimensional, I outline specific research directions which will contribute to bringing larger problems within reach.