

## **SOME NEW DEVELOPMENTS IN AGE-PERIOD-COHORT ANALYSIS**

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We review some new approaches to age-period-cohort (APC) analysis that we are developing. Our methods apply both to tables of rates that traditionally are the topic of analysis of APC models and to micro datasets in the form of a series of the repeated cross-section sample surveys that are increasingly available to sociologists. Our new methods integrate the APC analysis of tabulated data from tables of percentages or occurrence/exposure rates of events via a new estimator, termed Intrinsic Estimator, with the mixed random-fixed effects regression models or hierarchical APC analysis of the micro-data available in repeated cross-section surveys. As a substantive illustration, we apply our proposed methodology to data on verbal test scores from 15 cross-sections of the General Social Survey, 1974-2000. These data have been the subject of recent debates in the sociological literature. We show how our approach can be used to settle these debates by identifying and estimating the separate age, period, and cohort components of change.