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HIERARCHICAL BAYESIAN FUNCTIONAL DATA ANALYSIS AND ITS APPLICATIONS

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In many scientific application, one observes responses measured over a grid of discrete values, termed functional observations. In this talk I will talk about a couple of novel functional data analytic methods motivated by real oncology experiments. In the first case, the responses are inherently functional and are hierarchically correlated. In the second case, it of interest to model the effect of a functional covariate on a scalar response.