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A Principled Bayesian Workflow for Data Analysis

The Bayesian approach to data analysis provides a consistent and flexible way to handle uncertainty in all observations, model parameters, and model structure using probability theory. However, building Bayesian models in a principled way remains a highly complex task requiring not only statistical skills, subject matter knowledge, and programming, but also awareness of the decisions made in the process of data analysis. All of these aspects can be understood as part of a single Bayesian workflow. In my talk, I will highlight some of my recent contributions in this area and discuss plans for future research.

