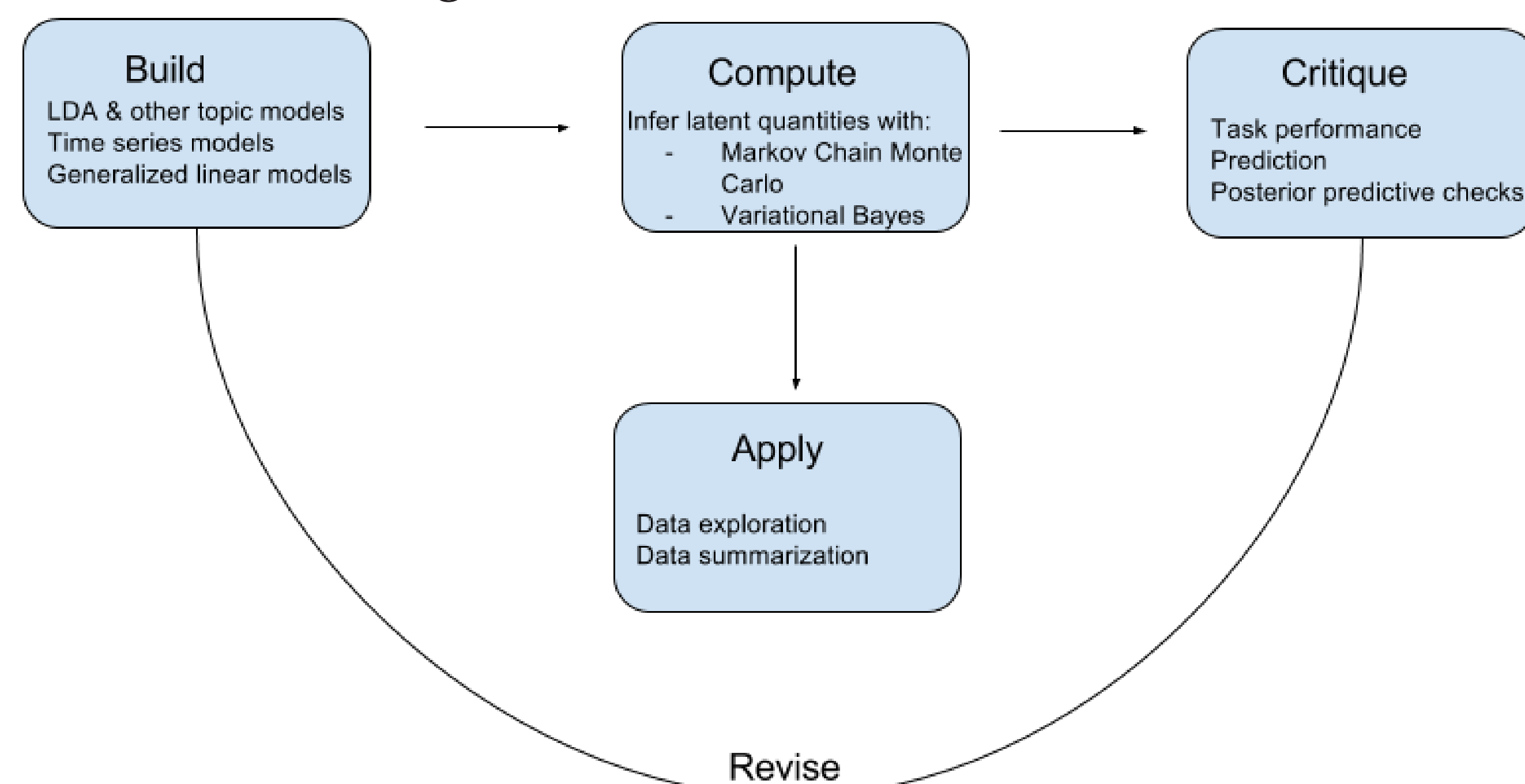


We introduce topic modeling as a tool when analyzing textual data. We illustrate our methods with analyses of New York Times transcripts and tweets from three days in March 2016. We argue that such analyses will be useful in mass communications and journalism research. These methods are especially useful for identifying topics, or themes, in large collections of texts, when reading each piece individually is impractical.

Social media users flood us with tweets, status updates, and blog posts. Data analysis with topic models enable researchers to identify themes, or topics, in a collection of texts. We present results from separate analyses of 1) New York Times articles from March 19, 20, and 21, 2016 and 2) a collection of tweets (from Twitter) from the same three days. Our manuscript contains computing code to reproduce our findings.



1. Fit latent Dirichlet allocation (LDA) models, separately, to 1) our collection of tweets and 2) our collection of print media articles from the New York Times
2. Visualized the topic modeling results with word clouds
3. Assessed resulting topics for coherence

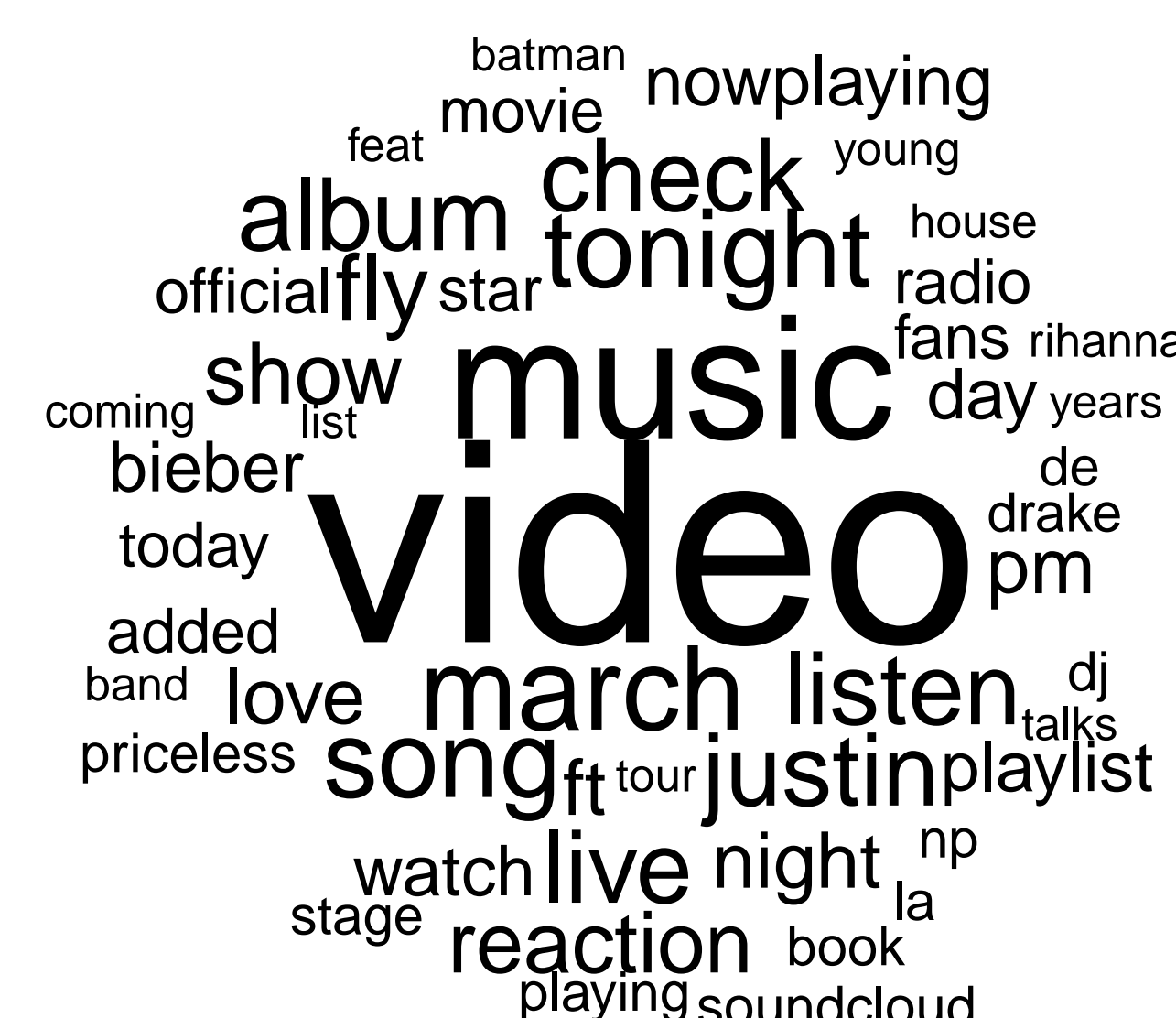


Figure 1: Word cloud for one topic (from a 20-topic model) of tweets from March 19, 20, and 21, 2016.



Figure 2: Word cloud for one topic (from a 20-topic model) of tweets from March 19, 20, and 21, 2016.



Figure 3: Word cloud for one topic (from a 20-topic model) of New York Times articles from March 19, 20, and 21, 2016.

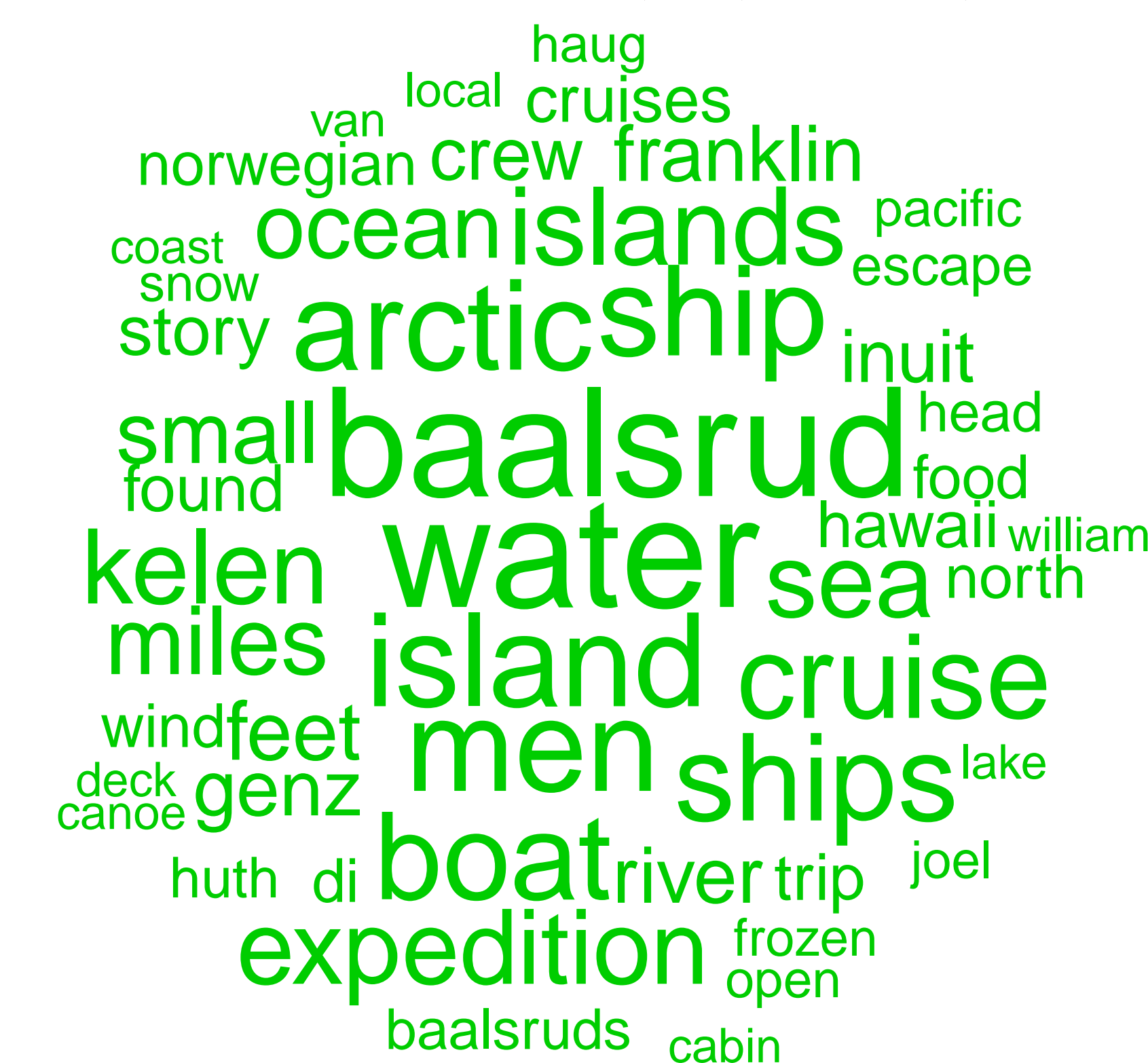


Figure 4: Word cloud for one topic (from a 20-topic model) of New York Times articles from March 19, 20, and 21, 2016.

DISCUSSION

- [1] David M Blei. Build, compute, critique, repeat: Data analysis with latent variable models. *Annual Review of Statistics and Its Application*, 1:203–232, 2014.