

1155-00-370

**Hannah E Wheelen\*** ([hwheelen@princeton.edu](mailto:hwheelen@princeton.edu)). *Will math and data ever completely remove humans from the redistricting equation?*

As data collection and technology has advanced over the past decade, the twists and turns of political district boundaries have often been finely tuned to produce specific political outcomes. Meanwhile, mathematics has become a powerful tool for analyzing such political decisions as well as proposing new ways to draw district maps. Practitioners, however, warn that the human element in mapmaking should never be replaced by technology—only aided by it. For instance, the desire for a simple, unified mathematical approach that applies to every state neglects the intricacies of each state’s geography and political climate. This talk will look at state specific applications of statistical reasoning where human involvement has been a necessary factor. We will learn from examples in Virginia, North Carolina, and New Jersey, and discuss how we can continue to use math to assure the 2021 redistricting cycle is much more representative of the people than the last. (Received January 19, 2020)