



**Gerrymandering Workshop
October 8-9, 2018**

SPEAKER TITLES/ABSTRACTS

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“Compactness Profiles and Reversible Sampling Methods for Plane and Graph Partitions”

Many of the most commonly used compactness measures associate a single value to each component of a given partition. However, these methods can fail to distinguish between several different types of unusual shapes. In this talk, I will introduce several compactness profiles that measure compactness at different scales, using both continuous and discrete techniques. Additionally, I will describe new methods for sampling partitions of a given graph using spanning trees to form a reversible Markov chain.