# samsi

NSF·Duke·NCSU·UNC

# Causal Inference Program Opening Workshop
# December 9-11, 2019

**SPEAKER TITLES/ABSTRACTS**

**Jared Murray**
University of Texas, Austin

"Bayesian Nonparametric Models for Treatment Effect Heterogeneity: model parameterization, prior Choice, and posterior summarization"

We describe different approaches for specifying models and prior distributions for estimating heterogeneous treatment effects using Bayesian nonparametric models. We make an affirmative case for direct, informative (or partially informative) prior distributions on heterogeneous treatment effects, especially when treatment effect size and treatment effect variation is small relative to other sources of variability. We also consider how to provide scientifically meaningful summaries of complicated, high-dimensional posterior distributions over heterogeneous treatment effects with appropriate measures of uncertainty.