Hamilton Institute Student Seminar Series

# Estevão Prado, Maths & Stats / Hamilton Institute

**Title:** An introduction to Bayesian Additive Regression Trees

**Abstract:** In this talk, I will introduce a machine learning algorithm called Bayesian Additive Regression Trees (BART) that can be used either for classification or regression. Essentially, BART can be defined as a statistical model based on a “sum of trees” that combines likelihood and priors. Also, I will introduce the basic concepts of Bayesian inference as well as highlight the fundamental differences between similar methods, such as Random Forests, and present the work we have been developing on this topic.