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Sean Skwerer* (sean.skwerer@yale.edu). *Regression for Tree Structured Populations.*

Modern imaging techniques have enabled the acquisition of samples from populations of anatomical tree structured objects such as dendrites and parts of the vascular system. Regression of a sample of brain artery trees, represented as points in a CAT(0) space, will be presented. General challenges and existing approaches for treespace based analyses of tree structured data objects will be discussed. (Received September 22, 2015)