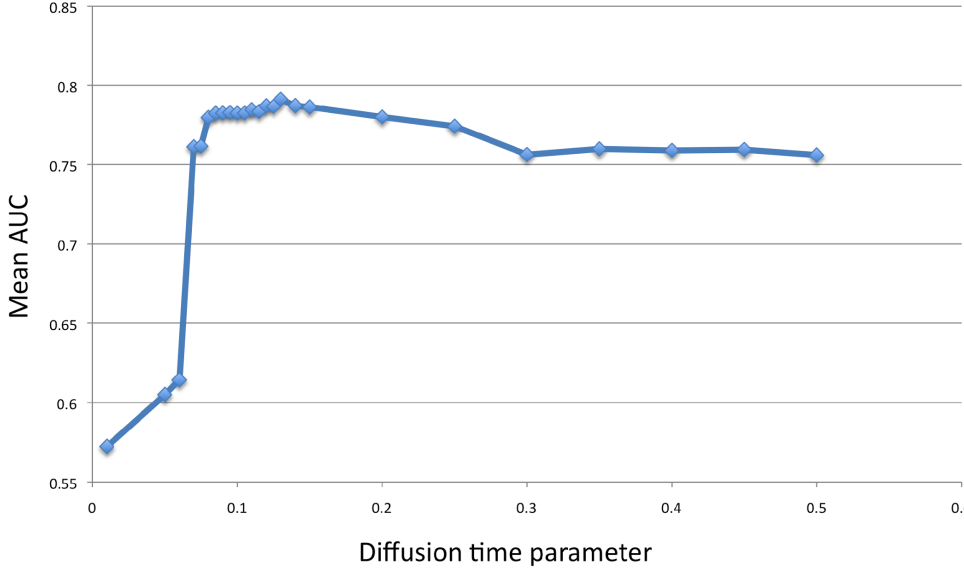Prior performance with varying diffusion time parameter