#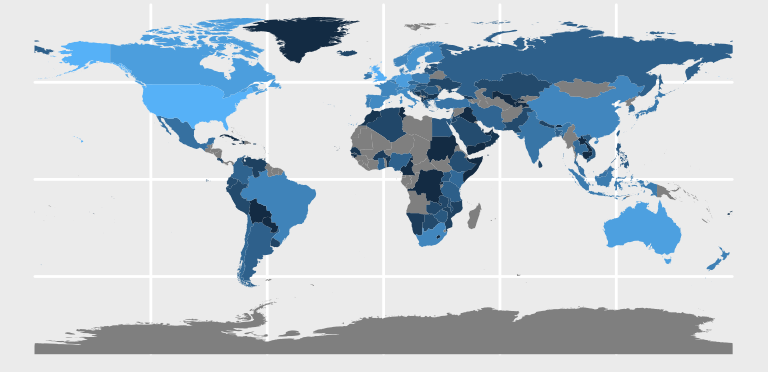 cluster_2 First Author Only