Title: Using linear models and data science methods to explain how much of the environmental variation is explained using genetic data.

There are various ways to quantify the genetic information in terms of environmental variation, but most of the studies use just one or two factors, and use simple linear models like regression or ecological methods like mantel test to explain this relationship. What this leads to is a very small portion of variation being explained by these factors. We in this study select large number of environmental factors, and some genetic and physiological factors, and use modern data science tools to come up with the best model that explains this relationship.