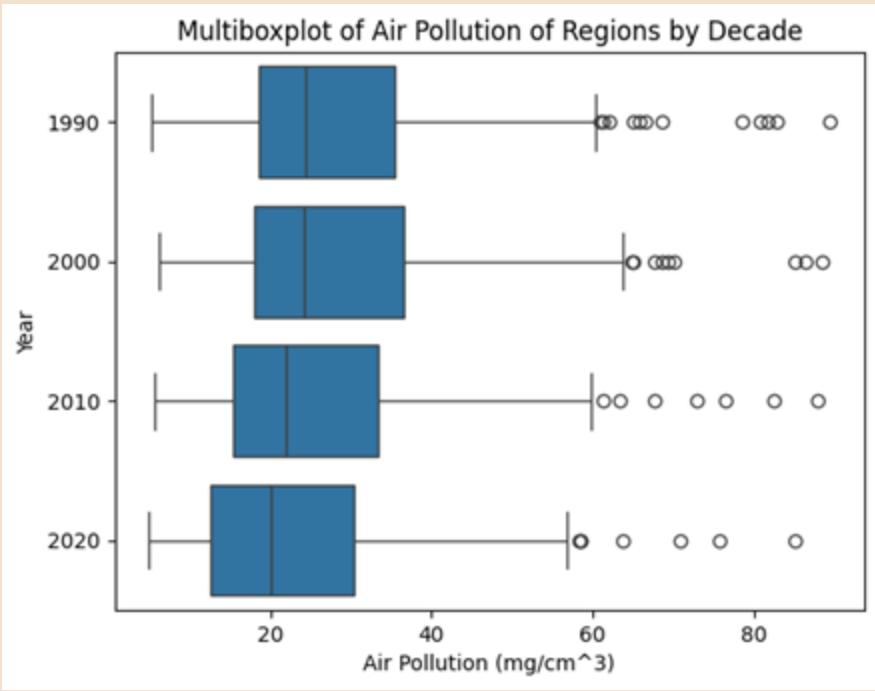
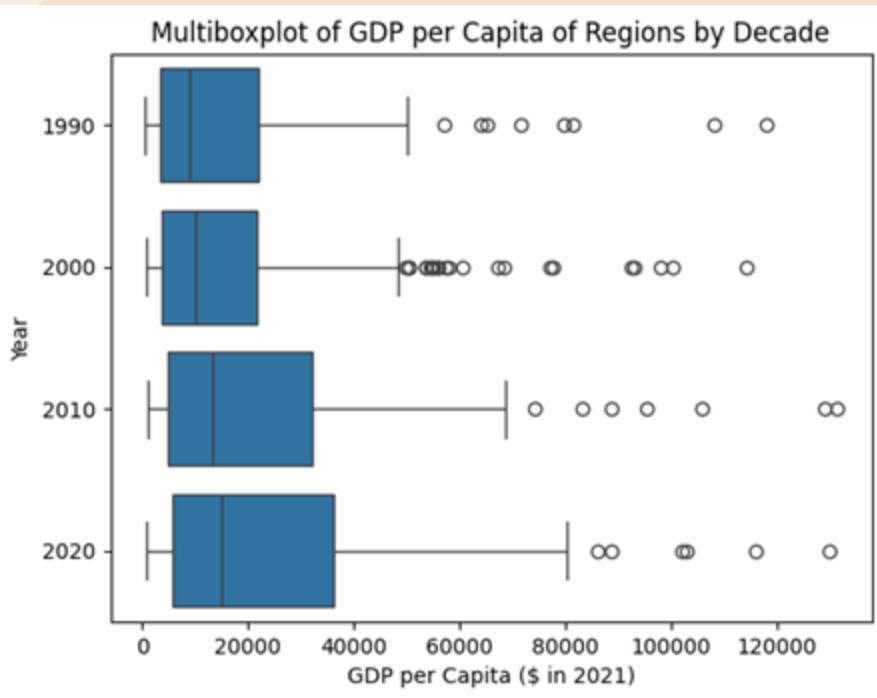


# Is there a significant relationship between Air Pollution and GDP per Capita?

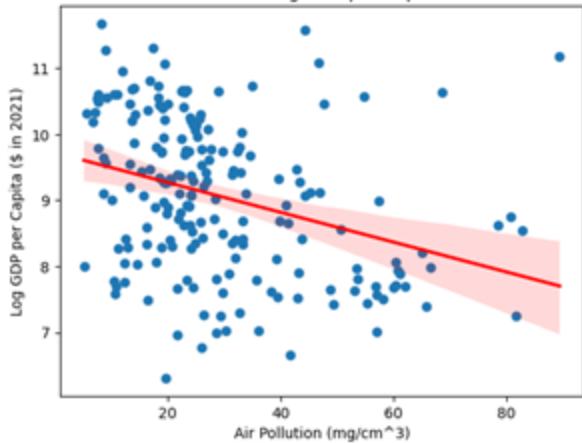
Jay Zheng, Darren Cen,  
Kurt Habazin

# Distributions of Air Pollution and GDP per Capita (1990-2020)

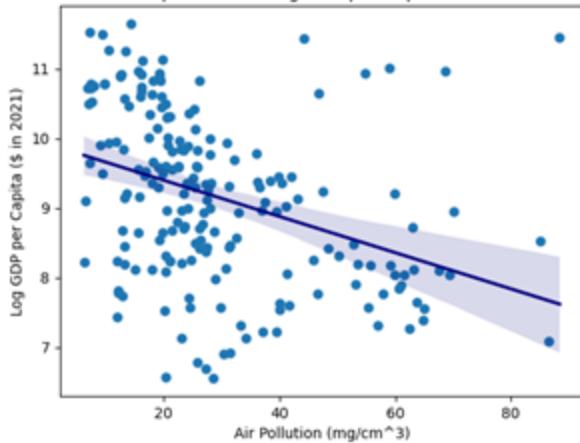
*Multi-Boxplot showing the distribution of regions that meet the dataset criteria*



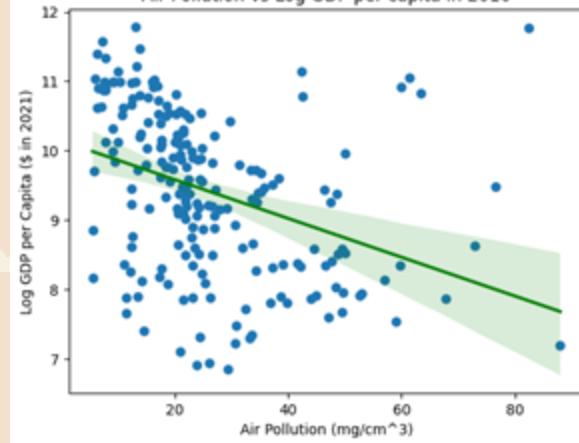
Air Pollution vs Log GDP per Capita in 1990



Air pollution vs Log GDP per Capita in 2000



Air Pollution vs Log GDP per capita in 2010



### Intercepts and Slope

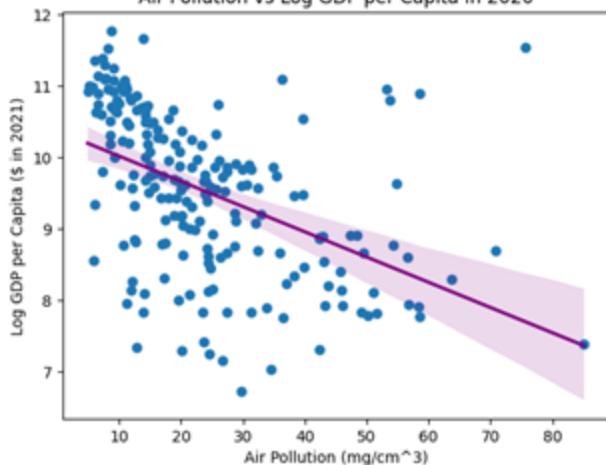
1990:  $y = 72.4841 - 4.7716(\log_{10} \text{gdp})$

2000:  $y = 76.8958 - 5.2389(\log_{10} \text{gdp})$

2010:  $y = 72.2306 - 4.9248(\log_{10} \text{gdp})$

2020:  $y = 76.8958 - 5.2389(\log_{10} \text{gdp})$

Air Pollution vs Log GDP per Capita in 2020



### P-Values of Beta 1

1990:  $2.724245e-16$

2000:  $7.064683e-08$

2010:  $5.317763e-08$

2020:  $1.021743e-12$