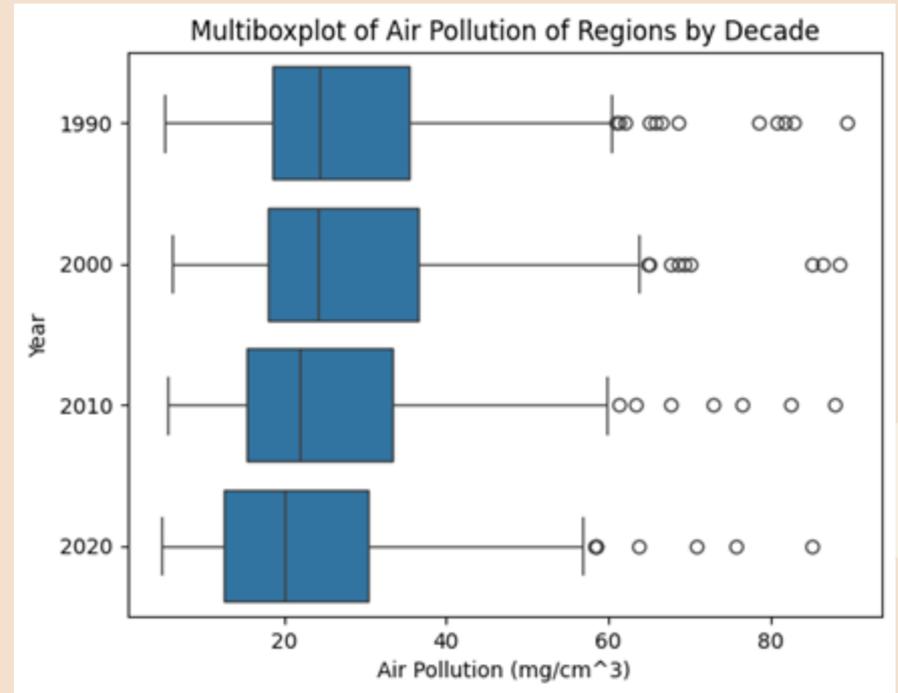
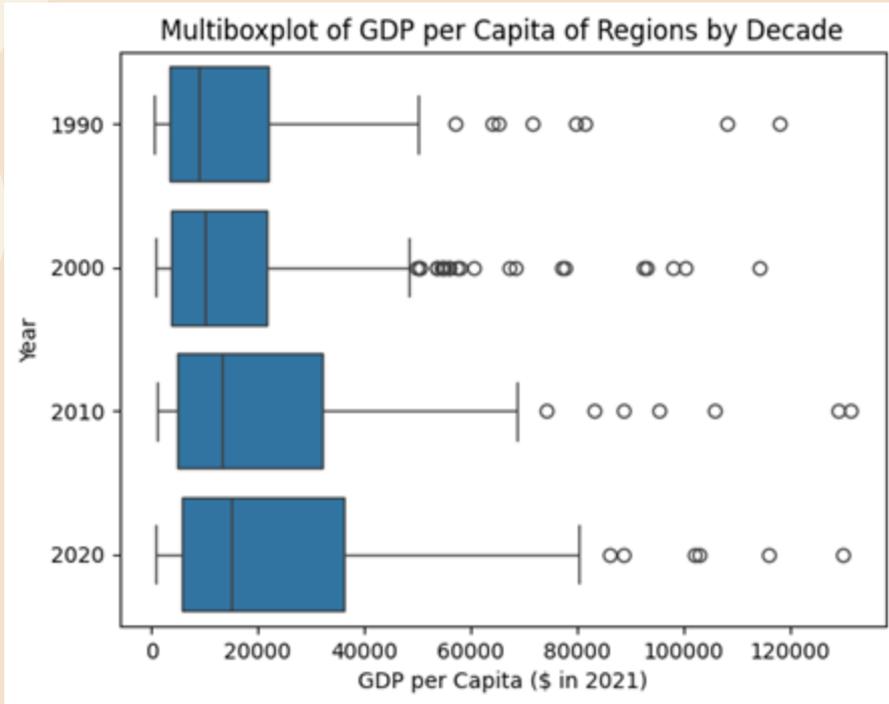


# Is there a significant relationship between Air Pollution and GDP per Capita?

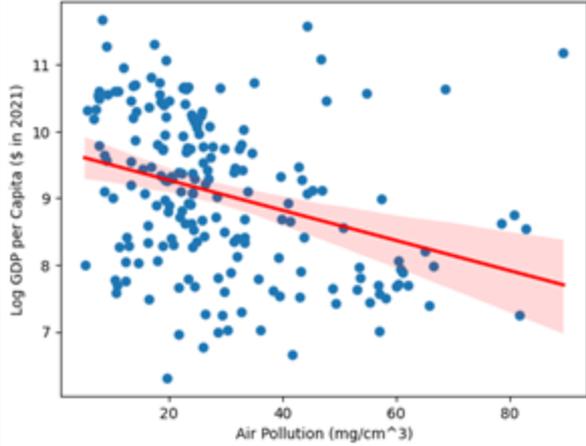
Jay Zheng, Darren Cen,  
Kurt Habazin

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

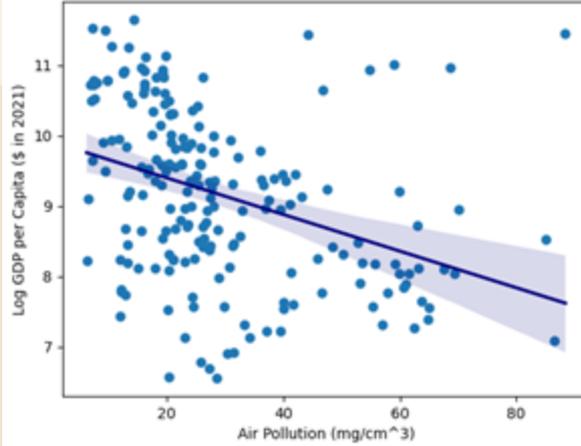
*Multi-Boxplot showing the distribution of regions that meet the dataset criteria*



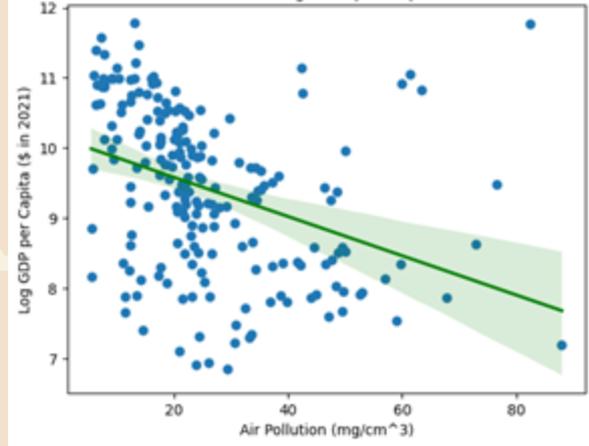
Air Pollution vs Log GDP per Capita in 1990



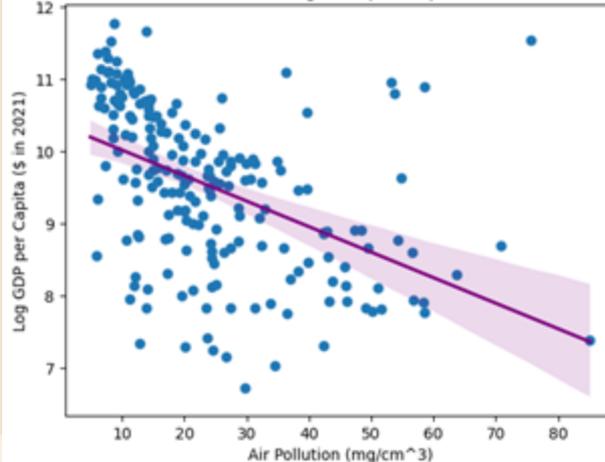
Air pollution vs Log GDP per Capita in 2000



Air Pollution vs Log GDP per capita in 2010



Air Pollution vs Log GDP per Capita in 2020



### Intercepts and Slope

1990:  $y = 72.4841 - 4.7716(\log\_gdp)$

2000:  $y = 76.8958 - 5.2389(\log\_gdp)$

2010:  $y = 72.2306 - 4.9248(\log\_gdp)$

2020:  $y = 76.8958 - 5.2389(\log\_gdp)$

### P-Values of Beta 1

1990:  $2.724245e-16$

2000:  $7.064683e-08$

2010:  $5.317763e-08$

2020:  $1.021743e-12$