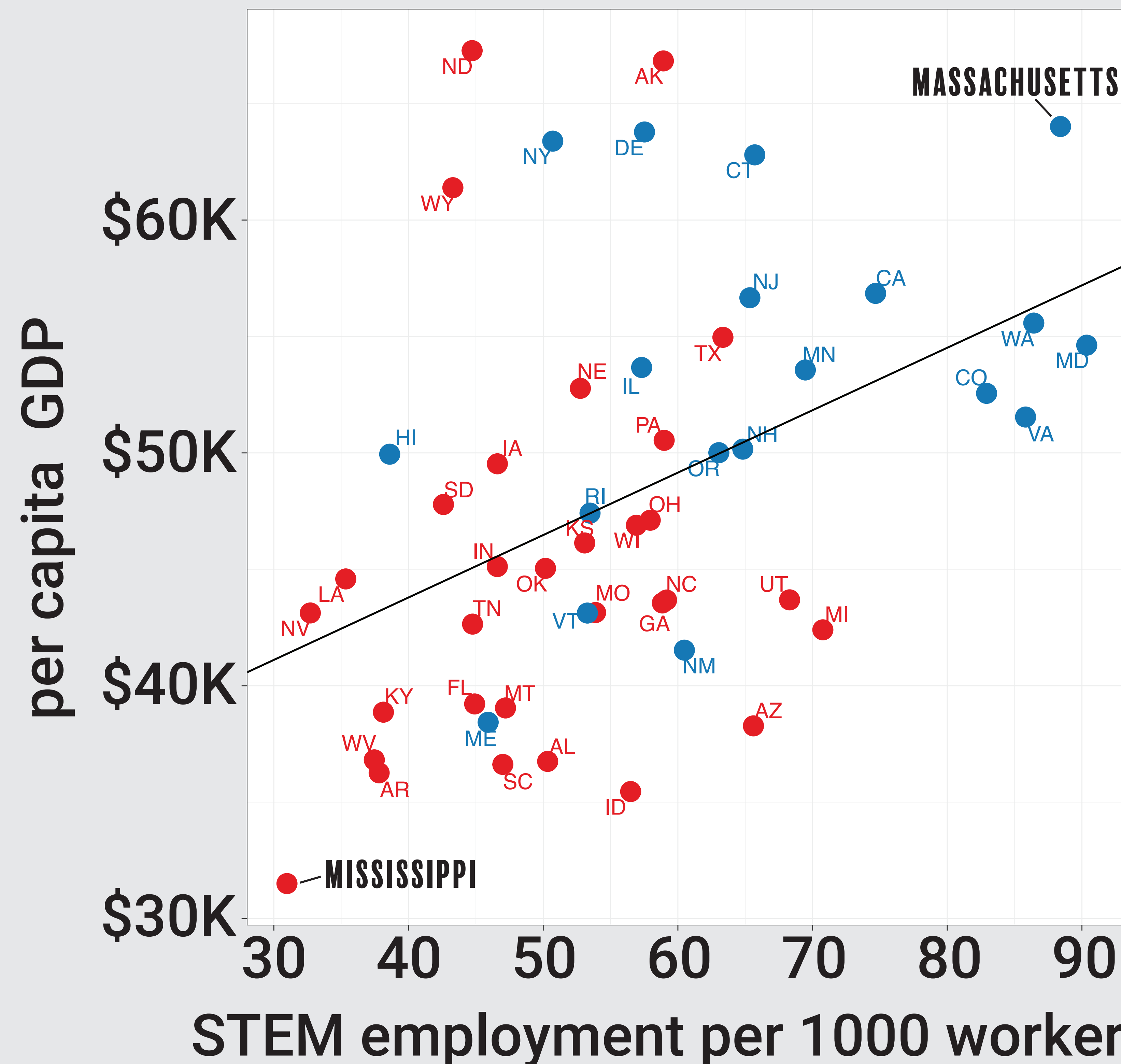


SCIENCE: why MASSACHUSETTS is *not* MISSISSIPPI

Correlation of STEM Employment and per capita GDP across 50 U.S. States



Linear model:

per capita GDP ~ STEM Employment

$R^2 = 0.1717$ $p\text{-value}_{(\beta>0)} = 0.00162$

2016 Electoral College Result:

● Democrat ● Republican

Sources:

STEM Employment:

Department of Labor: Bureau of Labor Statistics - Occupational Employment Statics, State Occupational Profiles May 2016 (<https://www.bls.gov/oes/tables.htm>), and category-1 STEM associated Standard Occupational Classification Codes designated by the (SOCPC) 2010 "Crosswalks" report on classification of STEM occupations (<https://www.bls.gov/soc/#crosswalks>).

Per-capita GDP:

Bureau of Economic Analysis - US Department of Commerce 2015 Annual NAICS per capita GDP (<https://www.bea.gov/regional/downloadzip.cfm>)

Electoral Results:

New York Times (<http://www.nytimes.com/elections/results/president>)

Analysis:

Analysis performed in the R language and environment for statistical computing. R Foundation for Statistical Computing, Vienna, Austria. (<https://www.R-project.org/>). Using the ggplot and ggrepel libraries (H. Wickham. ggplot2: Elegant Graphics for Data Analysis. Springer-Verlag New York, 2009; K. Slowikowski, J.O. Irisson. ggrepel, Repulsive Text and Label Geoms for 'ggplot2', 2016).

github.com/SubstantiaNegri/march-for-science