

Top Data Visualizations

Data Visualization Contest
GOVT16/QSS17
(Spring 2022)

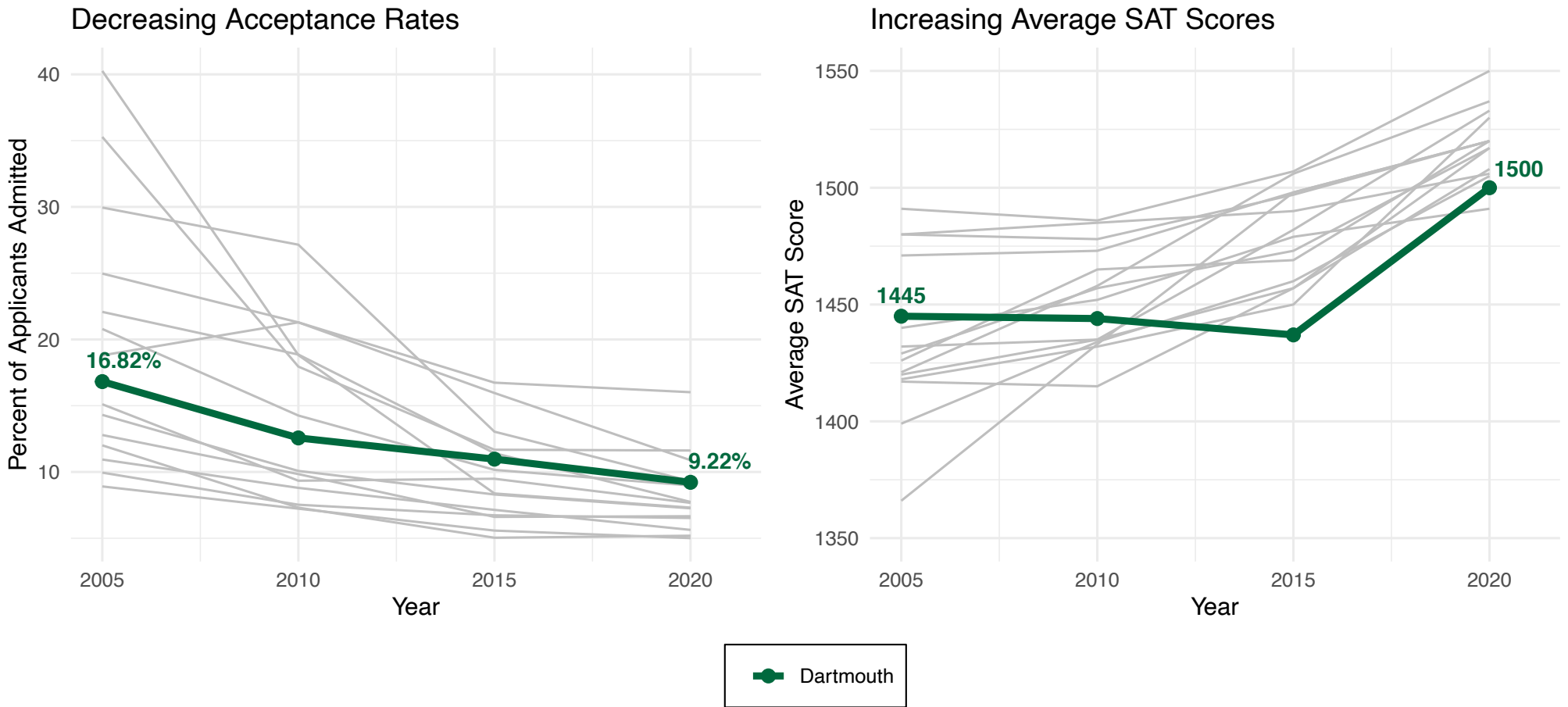
The DV Mug Winners –





Acceptance Rates Fall as Average SAT Scores Rise at Top Universities (2005–2020)

Graphs Depict the 15 Highest-Ranked Universities from *Niche 2022 Best Colleges in America* Rankings

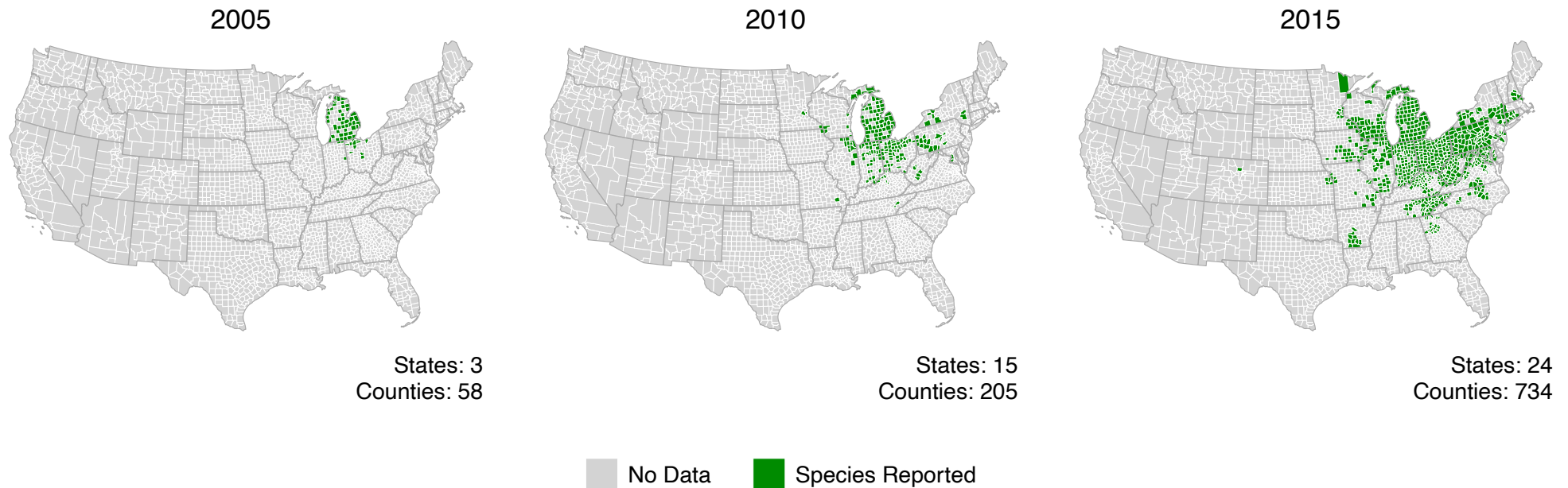


Source: College Scorecard Data and 2022 Niche Best Colleges in America Rankings

The figures reveal an inverse correlation between undergraduate acceptance rates and average SAT scores at select universities from 2005-2020. - **Eleanor Clark '24**



The Geographic Range of Invasive Emerald Ash Borer Beetles in the Continental United States Expanded Substantially Between 2005 – 2015



Source: EDDMapS by the University of Georgia

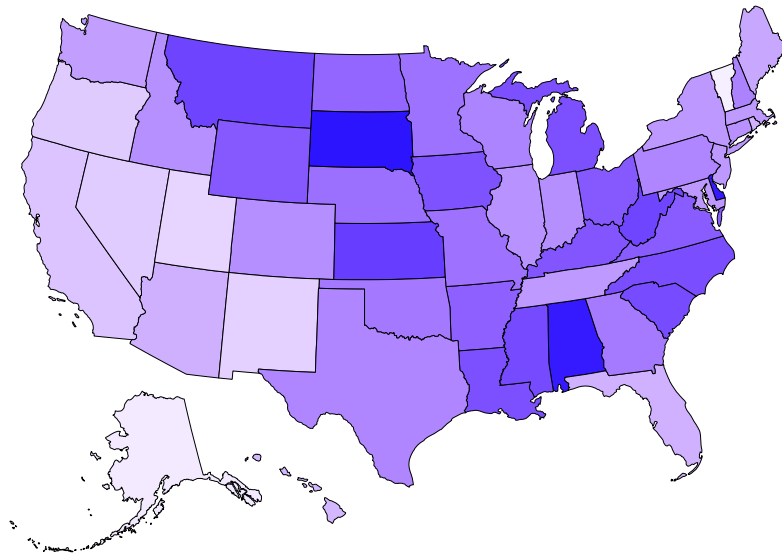
This figure shows the extensive expansion of the Emerald Ash Borer's range in the United States between 2005 and 2015. Since the invasive beetle was first discovered on American soil in Michigan in 2002, it has rapidly spread to at least 27 states and killed over 100 million ash trees. - **Michael Chan '23**



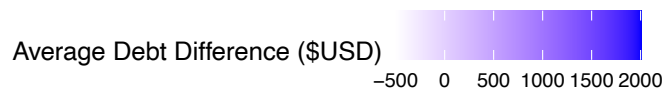
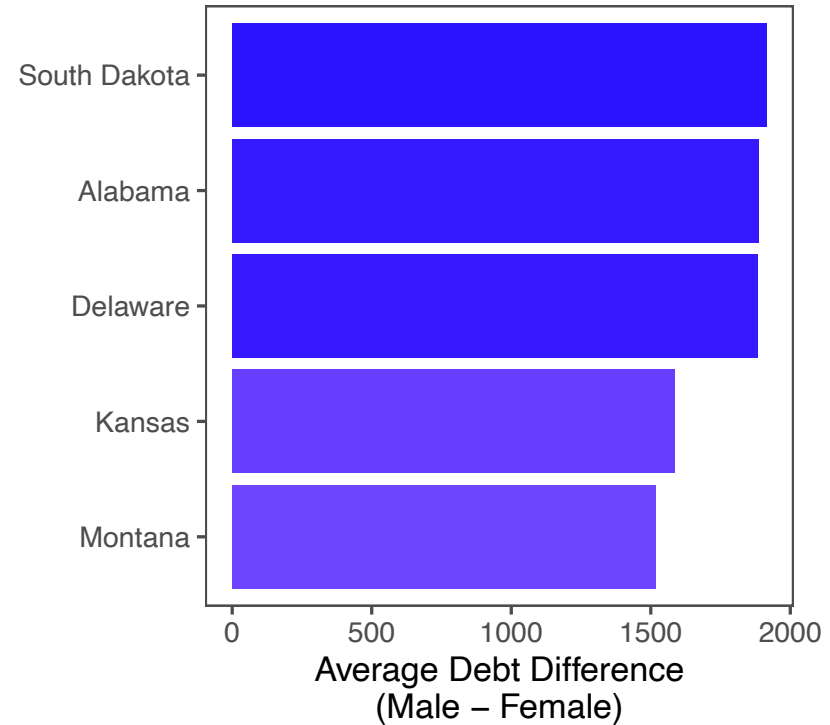
Data shows that on average, by state, men completing college have more debt than their female counterparts

Source: College Scorecard

US Map of college debt differences by gender
(Male – Female)



Top 5 states with the highest
debt differences by gender



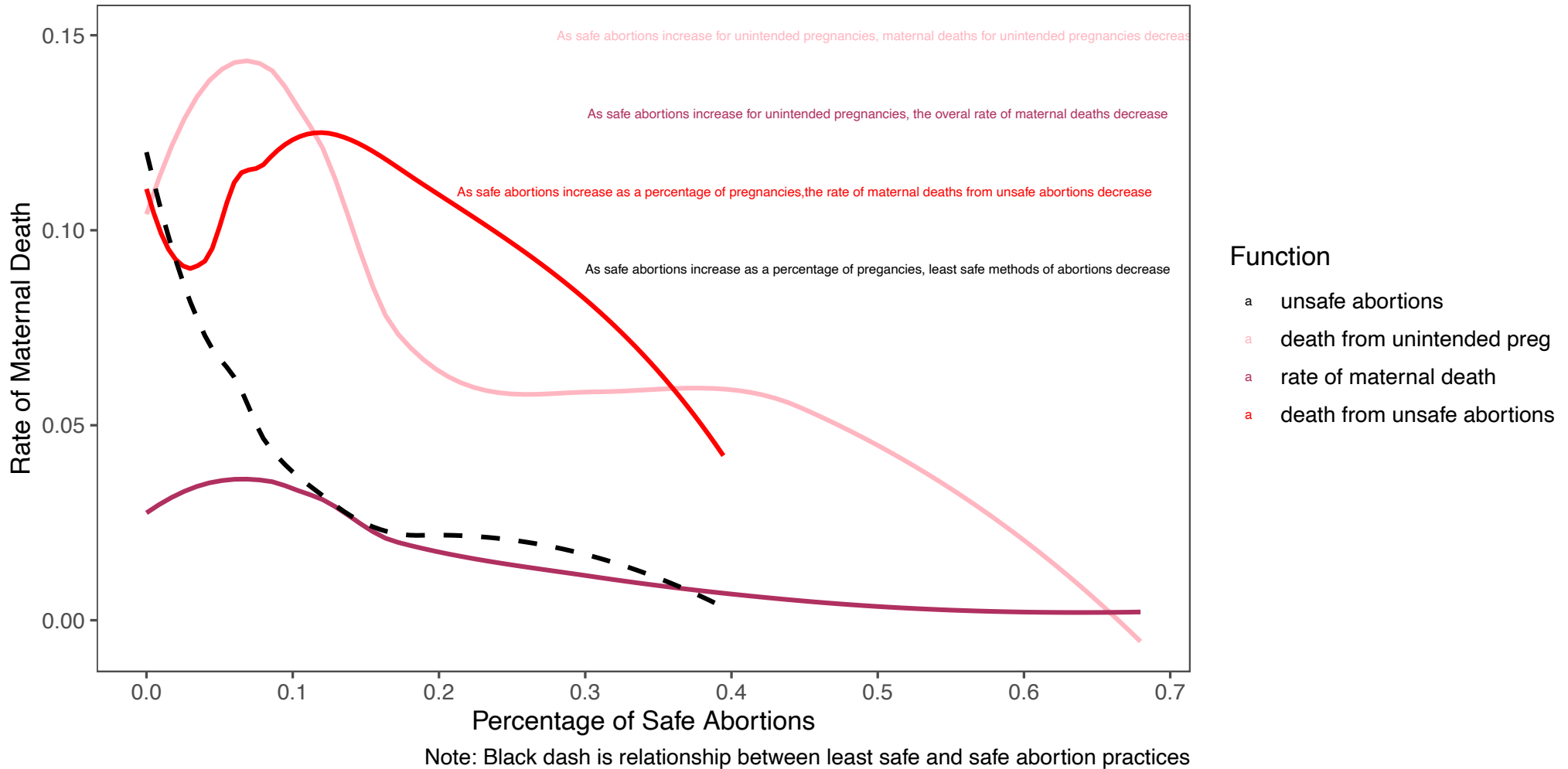
*Note: Data compiled from student data collected from 2018 to 2020

The figure shows that in most U.S. states, men graduate university with higher college debt than do their female counterparts. Further, it shows where the states with the highest debt discrepancies are geographically. The bar chart highlights the top 5 states with the biggest differences in debt by gender. - **John D'Avanzo, '25**



Maternal health requires safe abortions: Evidence from around the world

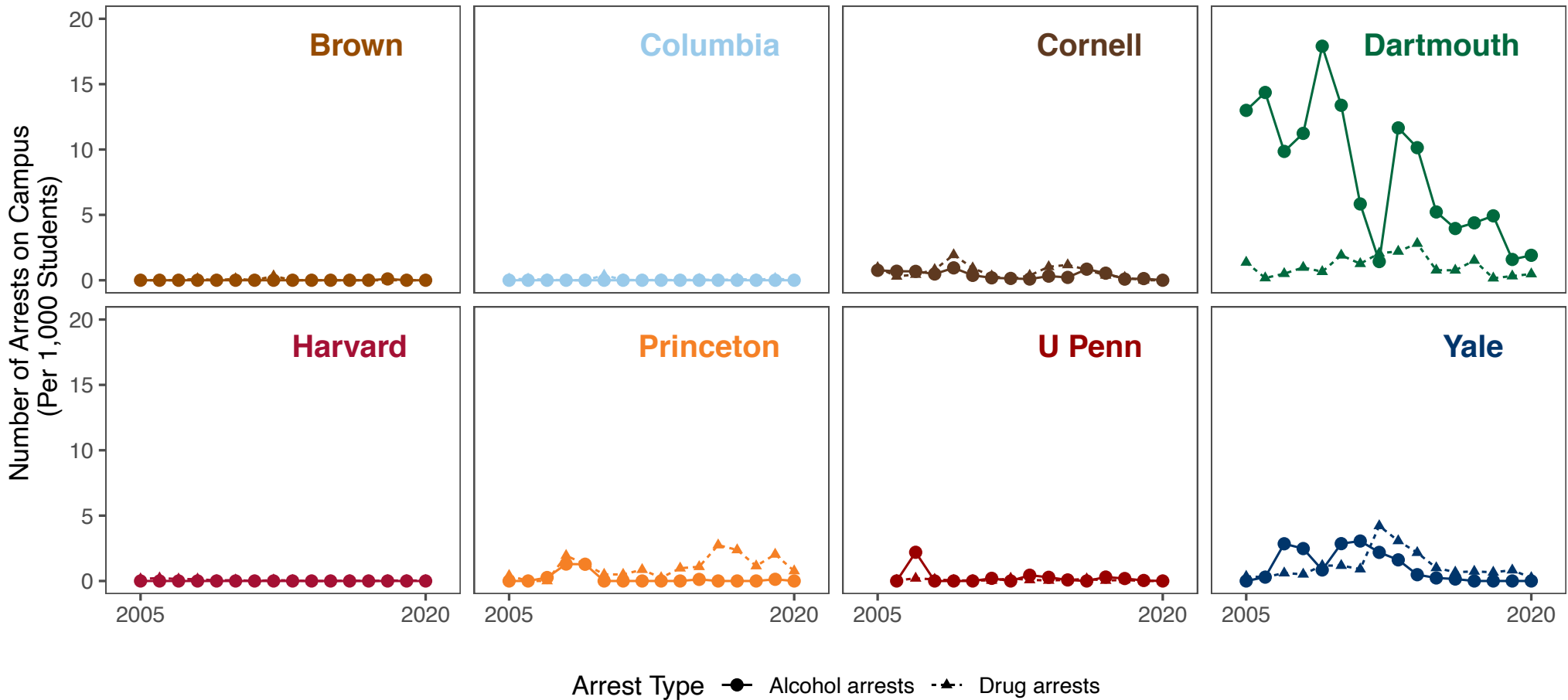
Source: AIU Codebook, data points from every country



Using data points from around the world, this figure shows the correlation between safe abortions, either as a percentage of all pregnancies or subsetting for unintended pregnancies, and lower maternal death rates from live births or unsafe abortions. Safe access to abortion is necessary around the world. - **Madeline Gochee '23**



Dartmouth Has Higher-Than-Average Number of On-Campus Alcohol and Drug Arrests Among Ivy League Schools



Source: Campus Safety and Security Statistics, Office of Postsecondary Education

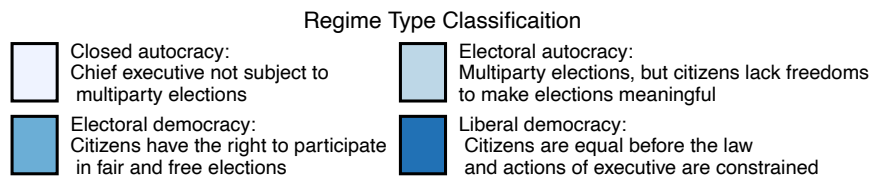
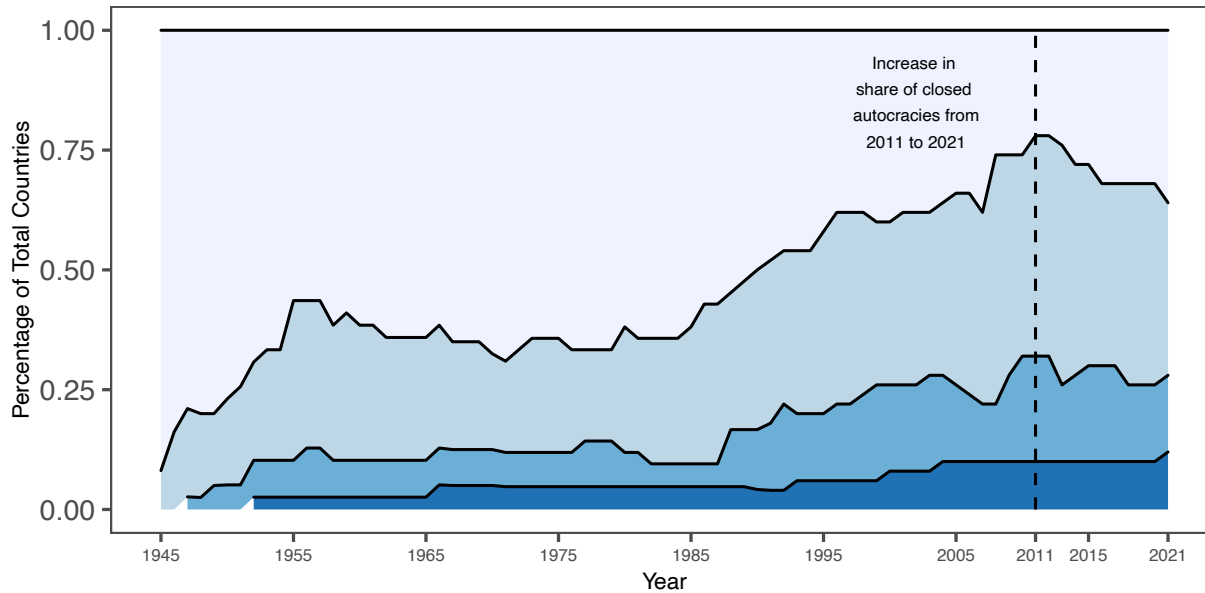
Over the last 15 years, some Ivy League schools have maintained a low record of on-campus arrests due to alcohol and drug violations. Others, such as Dartmouth, rank high in the number of arrests per 1,000 students. - **Lorraine Liu '22**



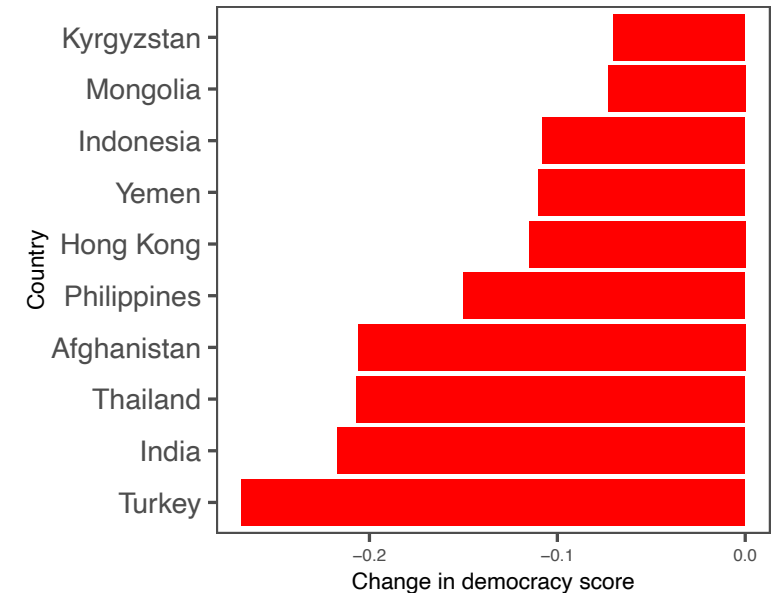
There has been an increase in countries classified as Closed Autocracies and an inclination towards more autocratic regimes in the last ten years in Asia

Share of Regime Types Over Time in Asia

1945 – 2021



Biggest decrease in liberal democracy score in the last ten years



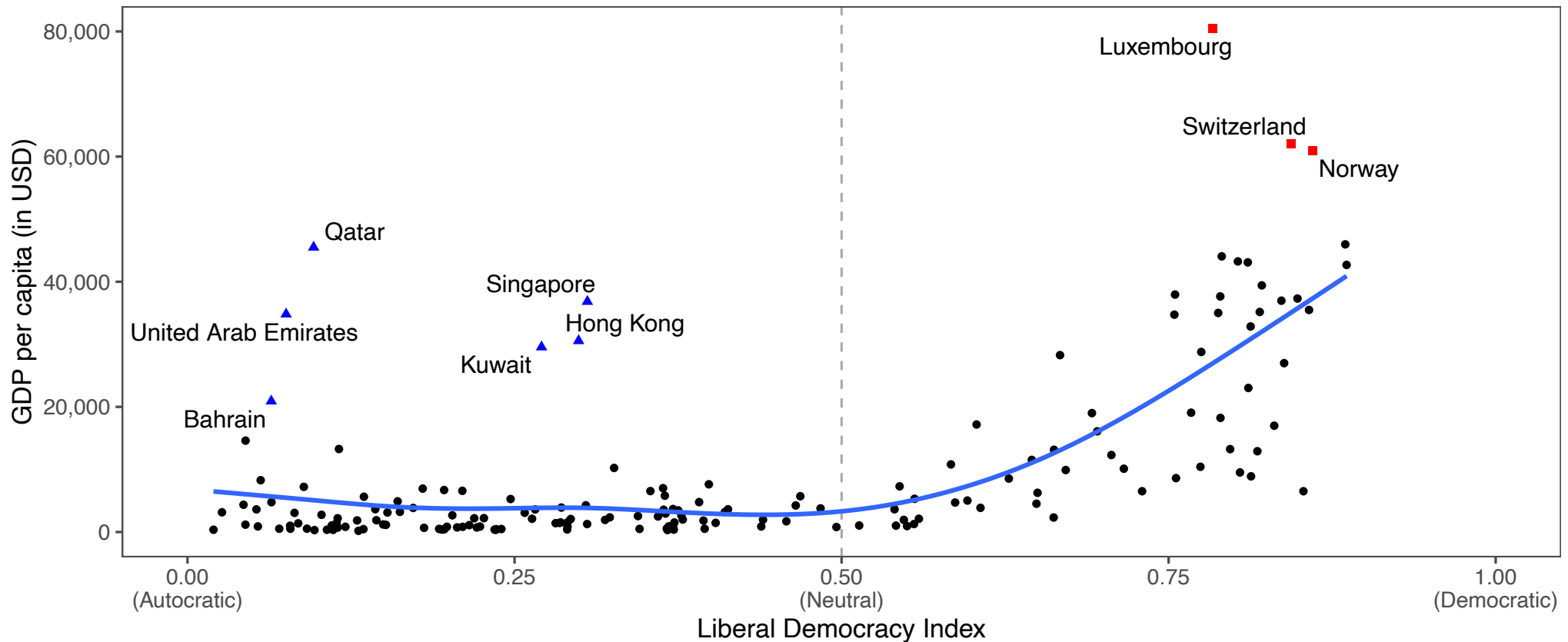
In the past ten years, Asia has had an increasing number of countries become classified as Closed Autocracies. Irrespective of classification, the liberal democracy scores of most Asian countries has decreased in the past ten years, demonstrating an inclination towards autocracy across Asia. - **Sharanya Majumder '24**



Democracy boosts a democratic country's economy, but not so for autocratic countries

Source: V-Dem, v12v; The World Bank data (1990–2022)

■ High libdem, very high GDP per capita ▲ Low libdem, comparatively high GDP per capita ● Others

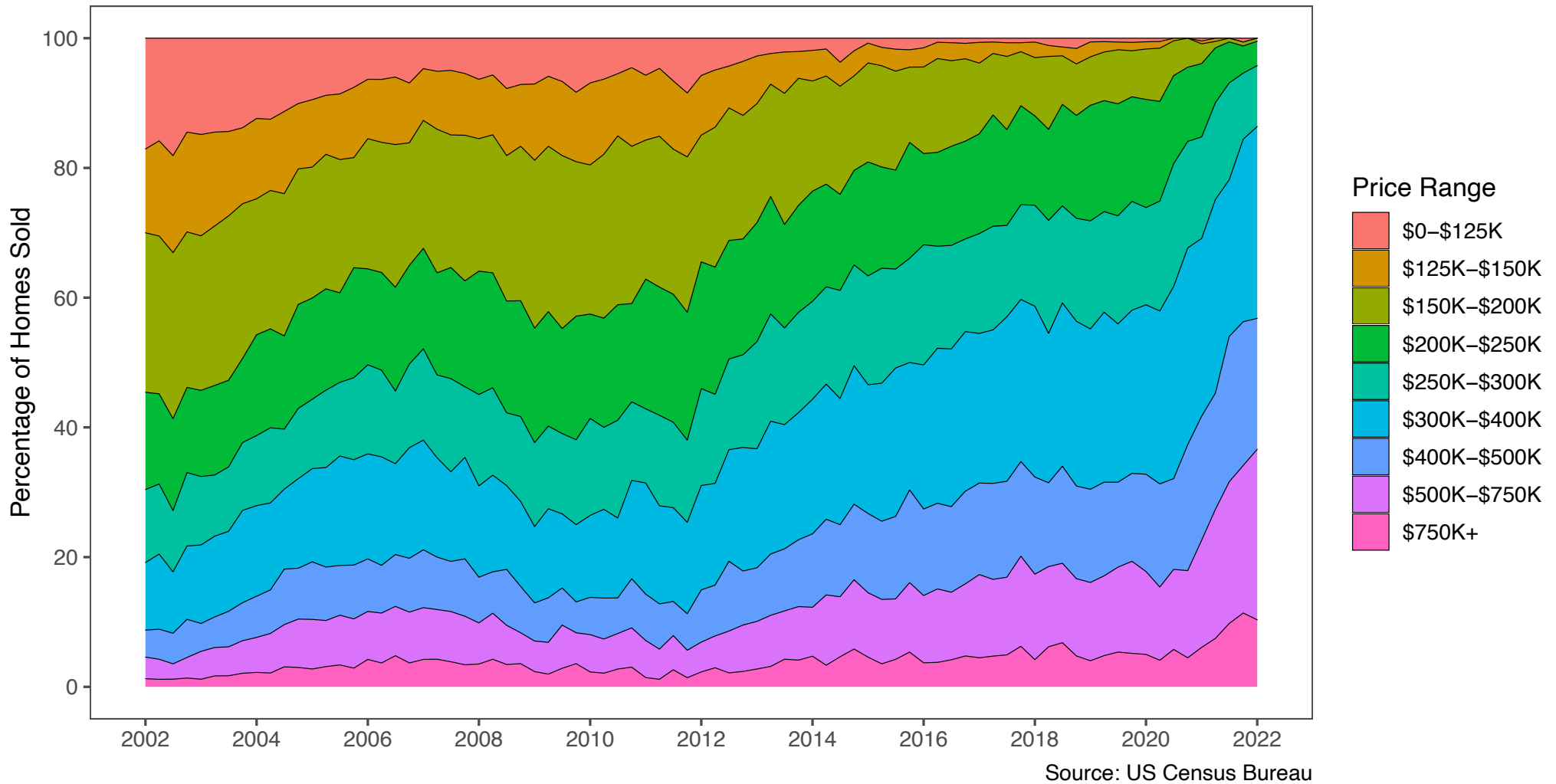


Note: The fitted line is based on the general additive model.

This figure explores how a country's economy is correlated with its democracy level. The more democratic a democratic country is, the higher its GDP per capita, i.e., the greater economy it has. Autocratic countries tend to share similar GDP per capita, i.e., similar economic conditions. - **Lucy Ruji Shao '23**



US Homes Are Getting More Expensive



This figure shows the distribution of prices for houses sold in the United States over the past two decades. - **Rylan Tribush '22**