Guns, Germs, and Murders

Firearms Increased Homicides after the COVID-19 Pandemic

Silvia Pedersoli (Stanford University)

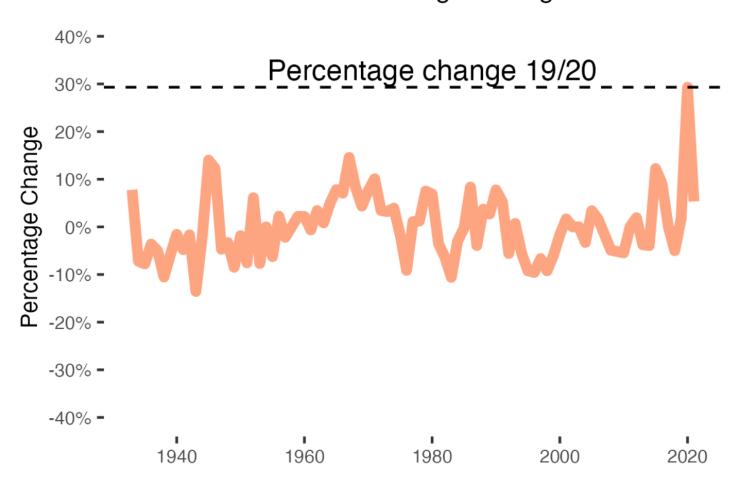
Paolo Pinotti

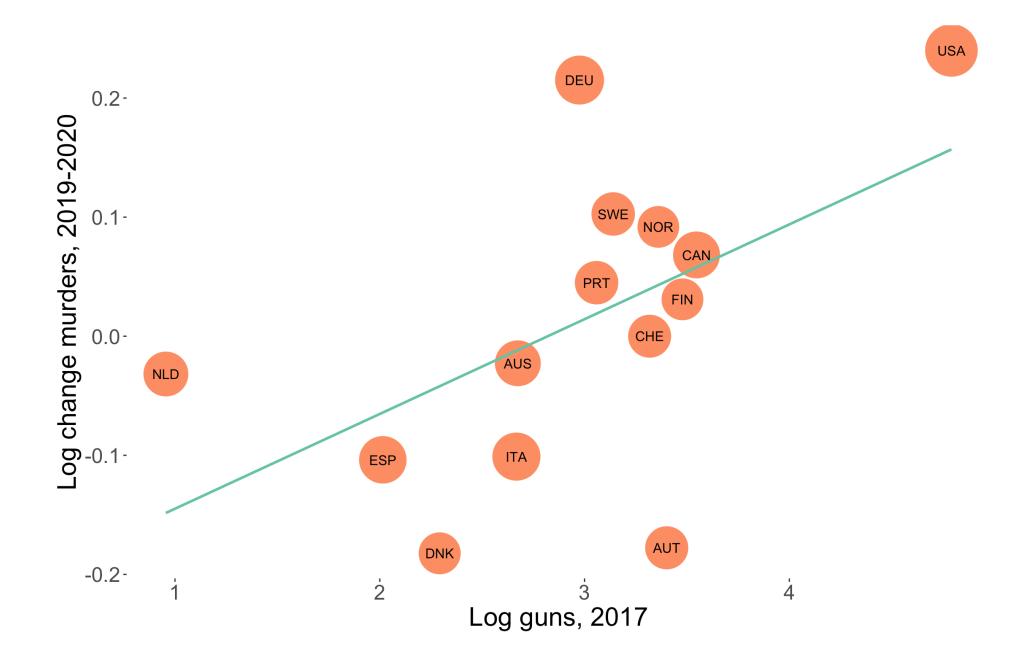
(Bocconi University)

Diego Zambiasi

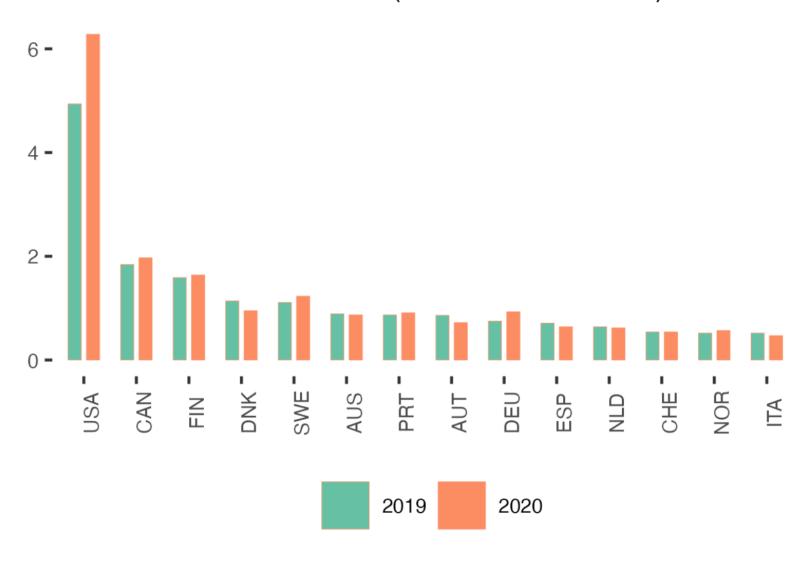
(Newcastle University)

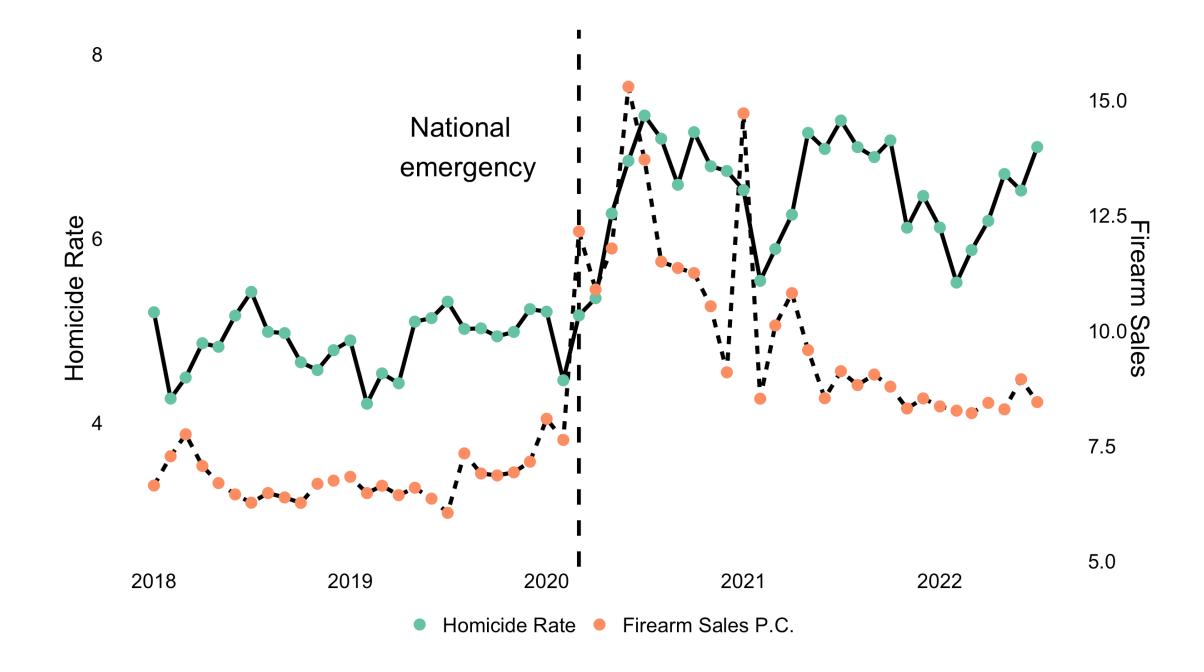
Historical Homicide Rate Year Percentage Change





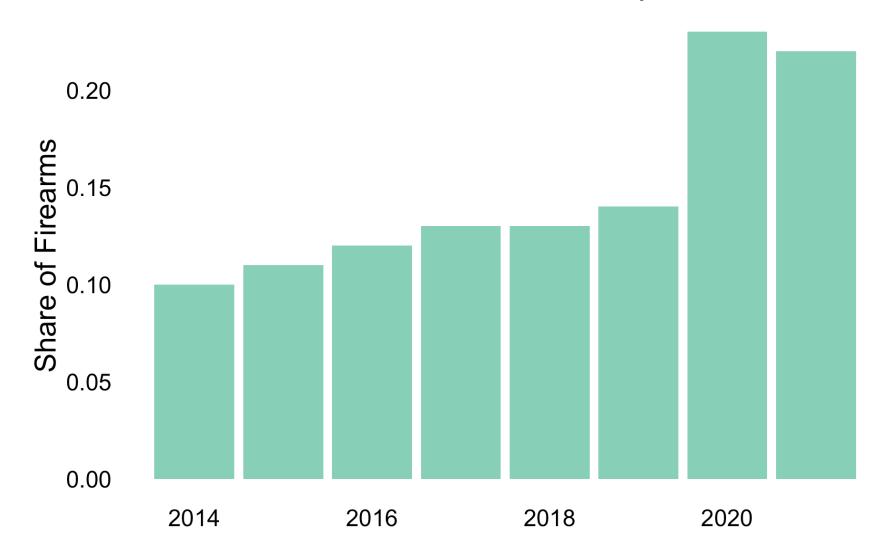
Homicide Rate (Selected Countries)





Were guns purchased in 2020 "deadlier"?

Share of firearms found on crime scenes that were bought less than 7 months before the crime took place



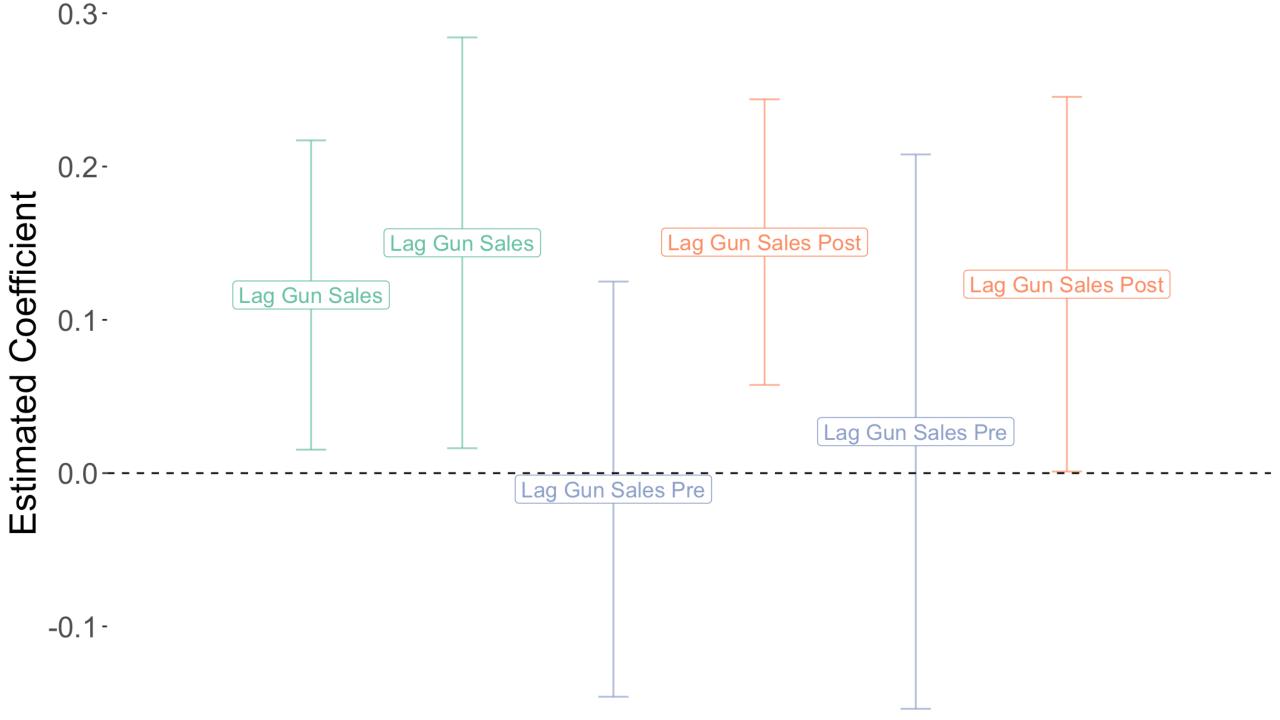
Did firearm purchases increase homicides?

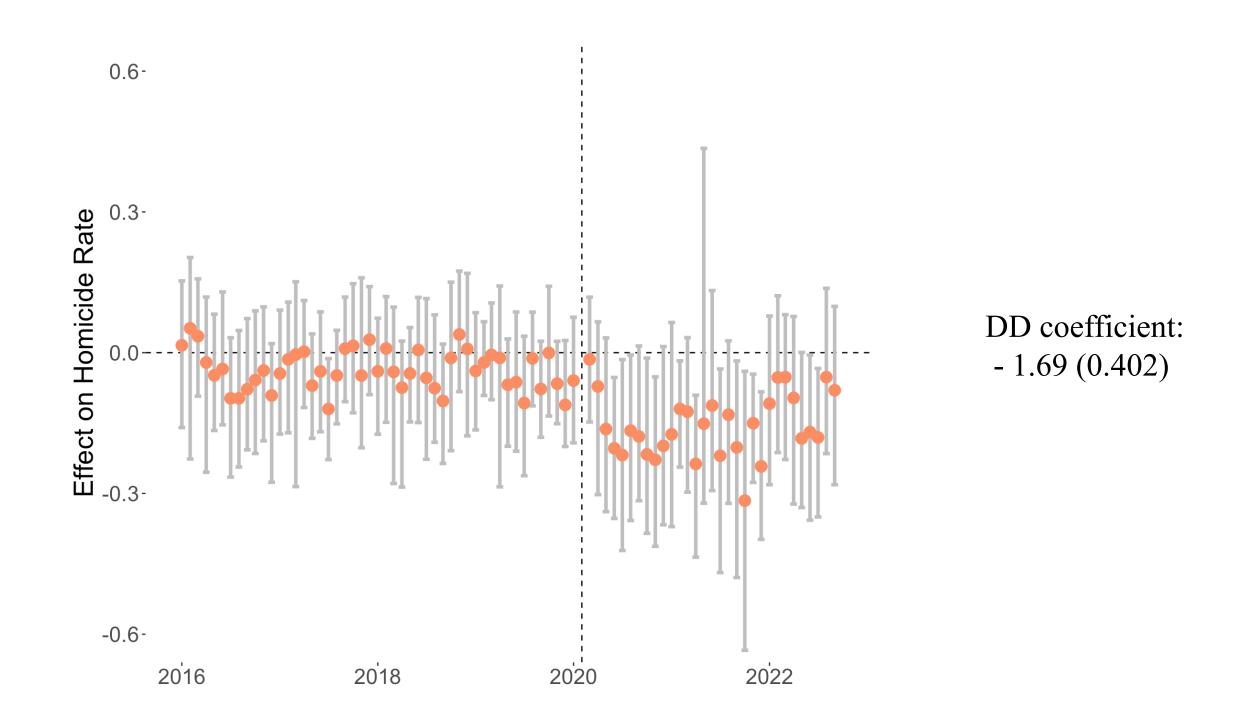
Dynamic Panel Setting

Homicide Rate_{st} = π Gun Sales_{st-1} + γ Homicide Rate_{st-1} + State_s + Month_t + Year_t + $\mathbf{X_{st}}$ + ϵ_{st} ,

Difference in Differences

$$\text{Homicide Rate}_{st} = \sum_{t=\text{JAN 2016}}^{t=\text{SEP 2022}} \phi_t \text{Strict Bundle}_s + \text{State}_s + \text{Month}_t \times \text{Year}_t + \mathbf{X_{st}} + \epsilon_{st},$$





Conclusions

2020 Pandemic Impact

Amidst the COVID-19 pandemic, our research reveals that more guns cause more murders.

Implications for Policy

States with effective gun control policies experienced lower firearm sales and fewer homicides.

Tighter firearm regulations can mitigate the exacerbation of tensions during crises like global pandemics.

Is the murder of George Floyd Driving our estimates?

