Crim 250: Statistics for the social sciences

Introduction

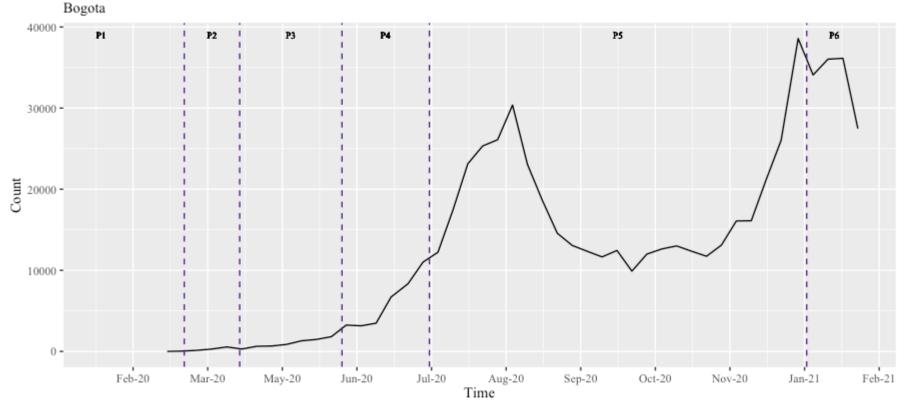
Outline

- Syllabus
- How Covid-19 has affected crime in Bogota, Colombia

Syllabus

Covid hits Bogota, Colombia

Weekly Confirmed Covid - 19 Cases

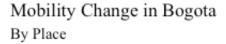


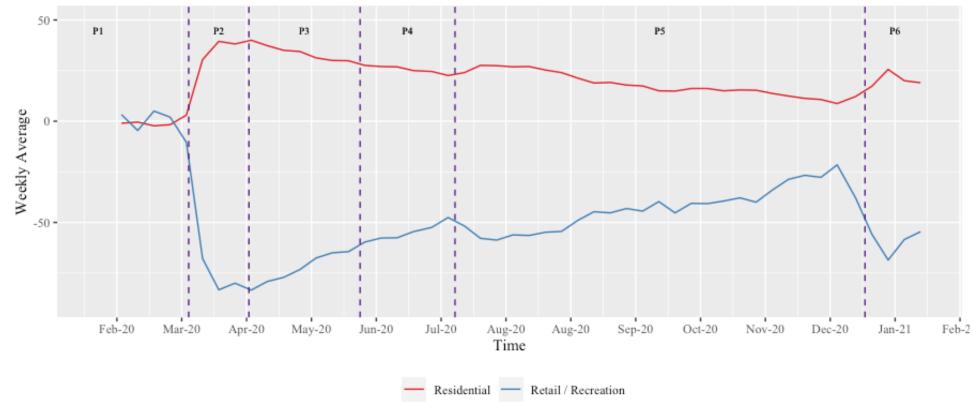
Source: Saludata - Bogota

A variety of lockdown policies

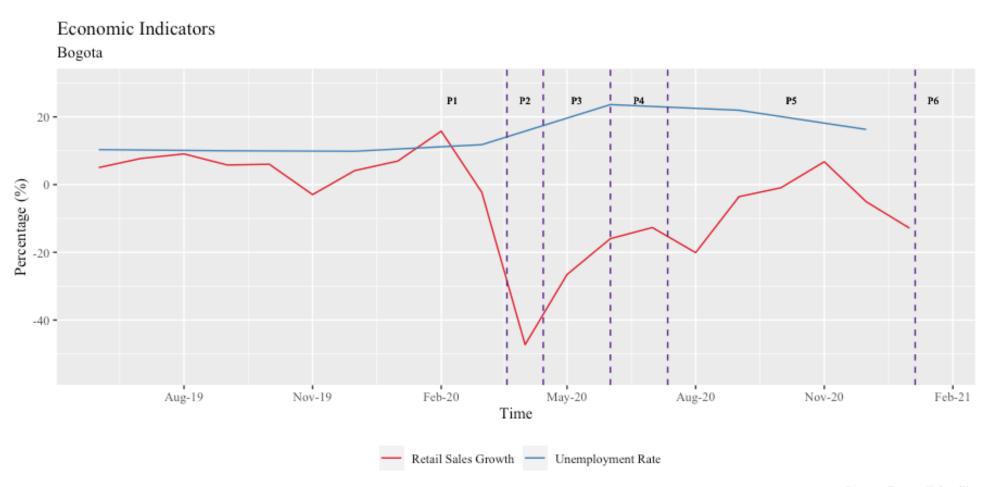
Year	Weeks	Period	Description									
2020	01 - 11	P1 - Normality	Little to no change in behavior / mobility									
2020	12 - 16	P2 - National Lockdown	Sudden lockdown									
2020 -	23 - 25	P3 - First Sectorized Lockdown	A large portion of the city was in lockdown, restricting the mobility of over 1 million individuals. Nonetheless, mobility restrictions began to be more permissive compared to the National Lockdown.									
2020	29 - 35	P4 - Iterated Sectorized Lockdown	Large sections of the city begin 14-day lockdowns									
2020	35 - 52	P5 - Restrictions Lifted	Most mobility restrictions were lifted									
2021	2 - 5	P6 - New Iterated Sectorized Lockdowns	After new contagion spikes, the city resumes sectorized lockdowns									

People started staying home

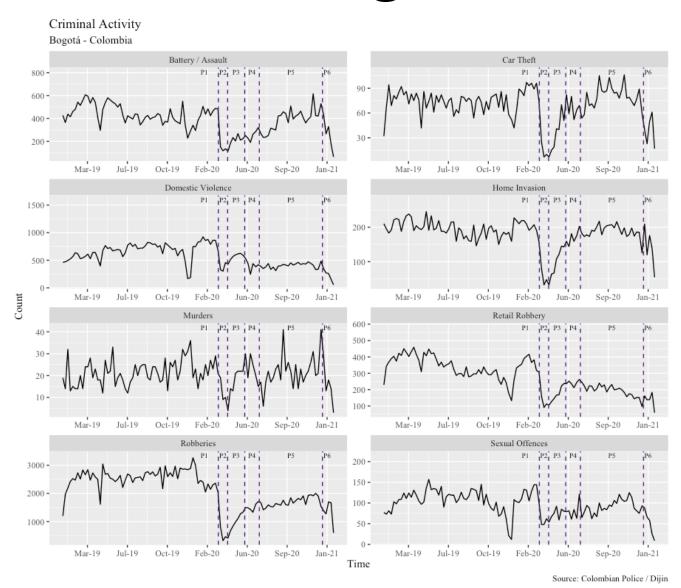




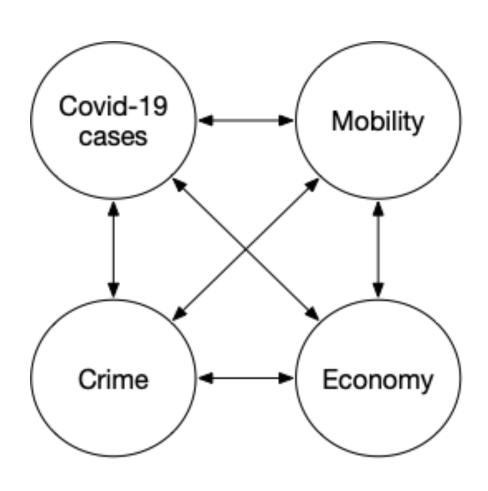
The economy all but collapsed



How did criminal activity change?



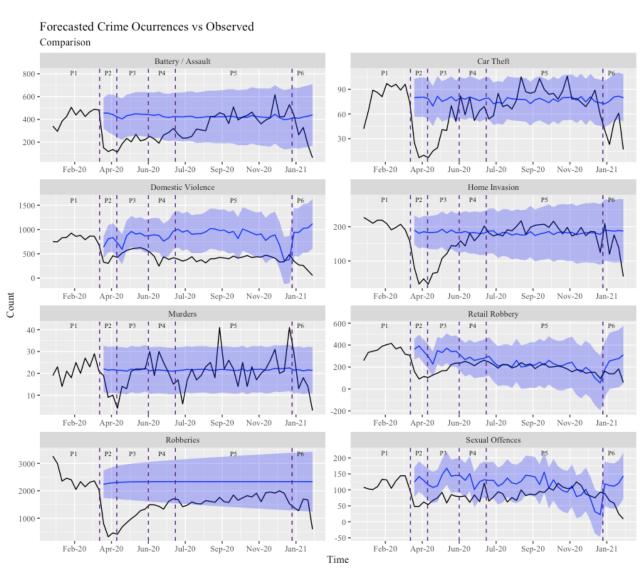
Causal framework



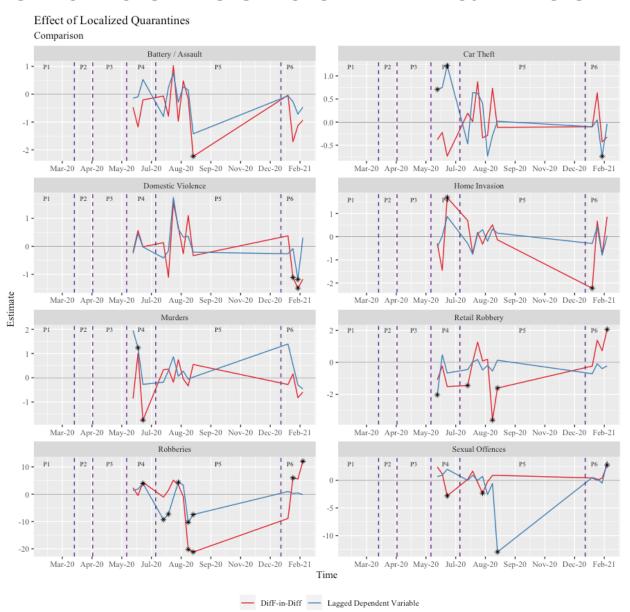
Lockdowns by week, by locality

Years 2020										2021											
Weeks	12	13	14	15	16	23	3 2	24	25	2	9	30	31	32	33	34	35	2	3	4	5
Usaquén	X	x	X	X	x					•			•		•	X	x	x	X	X	
Chapinero	x	X	X	x	x					X		X	X			X	x				
Santa Fe	x	x	X	x	x					X	:	X	X			X	x				
San Cristobal	x	x	X	x	x					X	:	X	X						x	X	X
Usme	x	X	X	x	x					X		X	X					Ì	x	X	X
Tunjuelito	x	x	X	X	X					Х		X	x						x	X	X
Bosa	X	X	X	X	X							X	X	X					x	X	X
Kennedy	X	X	x	X	x	X	Х		X			X	x	X							
Fontibón	X	x	x	x	x							X	x	X							
Engativá	X	X	x	x	x								x	X	X			X	x	x	
Suba	X	x	x	x	x								x	X	X			X	x	x	
Barrios Unidos	x	X	x	x	x								x	X	X						
Teusaquillo	x	X	x	x	x											x	X				
Los Martires	X	X	x	x	x					Х		X	x								
Antonio Nariño	x	X	x	x	x											x	X				
Puente Aranda	X	x	x	X	x							X	x	X		x	X		x	X	x
La Candelaria	X	X	x	x	x											X	X				
Rafael Uribe Uribe	x	X	X	X	x					X		X	X						X	X	X
Ciudad Bolivar	x	X	x	x	x					Х		x	X						x	X	X

Interrupted time series predictions



Was there a difference in crime between the areas under lockdown and the areas not under lockdown that week?



Why did crime rates change during lockdown? A criminology theory

