

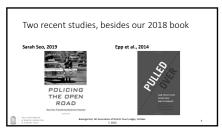
Outline of my talk Two short videos about traffic stops to give a feel for the data to · Some background and updates on the topic of driving-while-black. Preliminary analyses of NC AOC database of all arrests from 2013 through 2019 (work in progress; about 7.5 million individuals with 13 million charges)

Some links to give a feel for what we are talking about (please feel free to watch later) From Texas, searching a work truck because it is "too clean" and the owner "claims" to be a city councilman, which he was: http://specials.mystatesman.com/dps-profiling-complaints/ om Louisville, searching a young man for an "illegal right turn" https://www.courier-journal.com/story/news/investigations/2019/04/04/louisville-kentucky-police-stopped-frisked-handcuffed-black-teen-for-wide-turn/3210229002

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Seo, a law professor, has a long historical view The invention of the car, she writes, transformed policing.
Suddenly, it was "law abiding" and "respectable" people breaking the law. Correspondence historically with the period of prohibition / liquor running / (and Nascar). / (and Nascar).

- Great decline in public assumption of privacy,

- Is the car like your house, or like the sidewalk?

- Supreme Count! it's more like the sidewalk?

- 1960s, 1970s, police strategy of using technical violations of the law to conduct quick investigations of people

- Supreme Count validates all time actions continued by willing to endure an open country of the c

Safety and investigations Epp and colleagues (2014) do a survey of motorists and find that drivers know when they were pulled over for a legitimate and straightforward traffic violation (generally, speeding), and when it was a "pretext". And, while they accept the traffic-safety stops, they resent the pretextual stops. These, of course, are targeted on people who fit a "criminal profile" or steerotype. who has climina prime to stereoytes

• We can't tell which stops are pretexts

• But we do have 10 stop purposes in the NC SBI 122 form, so we can have a look. That's what we do here. It's an imperfect methodology but it points to something potentially of interest, particularly to those interested in enhanding traffic and highway safety.

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FRANK R. BAUMGARTNER DEREK A. EPP KELSEY SHOUB Once pulled over, 2x as likely to be searched Typical contraband "hit" is very small SUSPECT Only about 10 percent of searches lead to arrest. Disparities are ubiquitous: all states and localities show similar patterns CITIZENS Targeting seems clearly based on stereotyping.
 Each time we find a new database with another variable, we find more evidence of stereotypes; cut of state plates, older car, (usury v. less expensive vehicles, cars v. work vans, each variable predict higher rate of search.
 If we had a variable for 'air freshener hanging from the rearview miror,' that would probably predict seach as well.

A quick summary of a long book:

Black drivers in NC 2x as likely to be pulled over

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The Database, and why we collect it • 1996 investigative reports by Raleigh N&O reporter Joe Neff · Drug unit of the State Highway Patrol searched blacks twice as often as whites Legislative black caucus in the General Assembly mobilizes Bi-partisan support for legislation N&O editorial, 1999: either put to rest these allegations, or police leaders will take immediate steps to correct the situation . NC was the first state to mandate data collection • Initial focus on the SHP, but expanded in 2001 to all police agencies

The Database (con't) All traffic stops since Jan 1, 2002 · Demographics about the driver Stop purpose (speeding, equipment violation, etc.)
 Stop outcome (no action, warning, citation, arrest, etc.)
 Whether a search was conducted Contraband Officer ID (anonymous number, not linked to any other public information) Time, agency of the stop, no precise location recorded

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 About 1 million to 1.7 million traffic stops per year (NC population: about 10 million) million million of Traffic Stops per year (NC population: about 10 million) T

Most common form of interaction with police

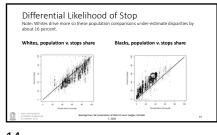
• Traffic stops are the single most common way US citizens interact with the police, and vice-versa.

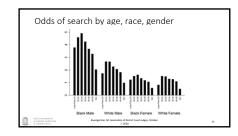
• NC has between 1.0 and 1.7 million stops, and a population of 10M

• Obviously, that's a lot of stops; about 10-17% of the population..

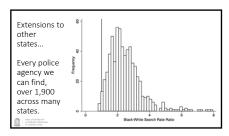
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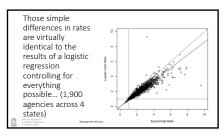
2010		Population Share		Share of Stops	
White		68%		60%	
Black Hispanic		22% 9%		32% 8%	
White	6.3M		843,060		.13
Black	2.0M		449,012		.22
Hispanic	0.8M	1	110,248		.14

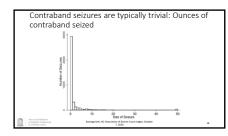




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Purpose	# of Stops		% of Stop
Safety	10.903.991	52.41	70 OI 310p
Speed Limit	8,575,792		41.2
Stop Light/Sign	992,374		4.7
Driving Impaired	182,558		0.8
Safe Movement	1,153,267		5.5
Investigatory	9,628,598	46.27	
Vehicle Equipment	1,833,213		8.8
Vehicle Regulatory	3,556,772		17.09
Seat Belt	1,812,175		8.7
Investigation	1,410,390		6.7
Other Vehicle	1,016,048		4.8
Other	273,526	1.31	
Checkpoint	273,526		1.3
Total Stops (Drivers only)	20,806,115 Ladges, October	100.00	19

Safety Stops:
About ½ of all stops, though this varies slightly over time. More importantly, it varies agencies and officers.

Search rates Stop type White Black Hispanic B-W H-W Ratio 1.07 1.59 2.51 1.49 2.35 Investigatory 1.31 3.54 2.30 2.70 1.76 All Stops 2.38 5.13 4.81 2.16 2.02 Overall, blacks searched 116 percent more than whites, Hispanics 102 percent more. Investigatory stops: equipment, registration, seat belt, etc., have much higher disparities and the control of the con

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The Investigatory / Safety Stop Ratio

Number of Investigatory Purpose Stops / Number of Safety Stops

High values: the police are doing more stops for equipment violations, expired tags, etc.

Low values: the police are focusing on keeping the roads safe from speeders, drunk drivers, those running stop signs, etc.

Recall: Safety stops = speeding, stops signs, DUI, unsafe movement. Investigatory stops = all others.

As the focus moves from traffic safety stops to investigatory stops...

Black-White Light Outcomes Ratio Goes Up

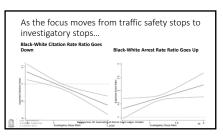
Black-White Light Outcomes Ratio Goes Up

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Why would this be?

• A focus on safety enforcement means that people are more likely to get pulled over for a serious traffic violation. They get a ticket or are arrested, and the officer moves on. Low racial bias here.

• A focus on using the details of the traffic or the vehicle code to fight the war on drugs means that relatively more traffic stops are for things like a possible involvement in a crime. This is often based on visual cues / stereotypes.

• Contraband bit rates: about 25 percent, but almost always trivial amounts of contraband the rates about 25 percent, but almost always trivial amounts of searches to find a large cache of drugs or weapons; other investigative tools would be more efficient.

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Police culture shifted in the 1970s

- Using the traffic and the vehicle codes became a "best practice".

- Rather than just profile people, find a technical violation of the law first, then you have the legal right to detain them temporarily. During that time, you can do a quick investigation...

- Legally: This is fully supported by the US Supreme Court

- Politically: It only applies to marginalized communities, not to white middle-class voters, so there is little backlash.

- But: It subjects people to differential policing. And it is not efficient.

Updates for Charlotte, 88,000 traffic stops from 2016 and 2017, from public website. Search Rate Comparisons: Race of Officer, Neighborhood

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Search Rates are higher in low income areas

Search rates increase geometrically with more targeted characteristics

*Targets:

1. Black not white
2. Young not old
3. Male, not female
4. Officer White Male, not other
5. Veteran
6. Stop for investigation, not safety
7. Stop in rest of city, not three safets areas
8. Stop in Metro district, not rest of the city

These trends even more striking when we look at "fruitless searches"

Fruitless searches:
Search not followed by arrest.
Note: because contraband amounts are typically so low, many are not arrested.
The decision not to arrest, following a search, indicates that even the officer recognizes that no labore broken.
This is a good indicator of demographic "over-targeting".

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Driving While Black, or Patrolling while White? Both matter almost equally.

Driver Characteristics Compared

Officer Characteristics Compared

Summary on traffic stops

One's odds of search relate to:

Where one lives
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Where one lives
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Work in progress with three graduate students: Christian Caron (UNC); Marty Davidson (Michigan); Kaneesha Johnson (Harvard). (Marty and Kaneesha were UNC undergraduates.)

Book project: Who gets arrested, how do people come through the control of the control o

NC-AOC database on arrests

 Book project: Who gets arrested, how do people come through the system (e.g., types of attorneys, types of pleas, relative punitiveness of the outcomes, given the initial charges), what parts of the system appear to be driving whatever inequalities we may observe?

Key elements: assess identity factors, including age, race, gender, estimate of income based on home address and age, neighborhood effects. Assess both class and race/gender.

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A focus here on Orange and Chatham

Our book will be state-wide.

Counties

- We're working with DA Woodall and former PD Williams to analyze one judicial district and make sure our analyses pass the smell test.
- Since the work is in-progress, and the database is very complex, we're not yet ready to present the state-wide results. Please treat these results as preliminary as well.

of Year To Calestria Sauragertner, NC Association of Statist Court Judges, October 7, 2020

- Charges: from 1.2M to 2.2M per year

- Agrests (multiple charges for the same event or episode): .9M to 1.3M per year

- Resolutions: The same person might have 3 arrest incidents and multiple charges before there is a plea agreement or a trial. 8 to 1.1M per year.

- Individuals: The same person could have multiple cases. 8 to 1.1M per year.

- Convictions: 390,000 to 560,000 per year

- Felony convictions: 20,000 to 35,000 per year

- Serious felony convictions (with a potential of => 1 year in prison): 2,500 to 5,000 per year

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- Serious (State-wide numbers; following slides focus only on District 18)

An overview, 2013 through 2019

Share of charges v. share of population Share of Share of 2010 Demographic Group Ratio charges White male 0.73 Black male 4.17 White female 16 43 0.37 Black female 11 1.57

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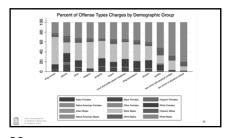
Who gets arrested for which crimes?

• Beyond just who has contact, can we assess which parts of the criminal code target which demographic groups?

• For each type of crime, we can construct the demographic profile of those most commonly arrested for it.

• Who gets arrested for doe-fighting, cruelly to animals, homicide, sexual crimes, passing bad checks, speeding, etc.?

• 12 demographic groups: (White, Black, Hispanic, Asian, Native, Other) x (Male, Female). Every class of crime is assessed in terms of what percent of those arrested come from each of these 12 groups.



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	Offense Description	Offense Category	Count	Percent o Offense:
1	CRUELTY TO ANIMALS(F)	Wildlife	19	61.29
2	LARCENY BY CHANGING PRICE TAG	Larcenies & Related	19	54.29
3	ATT OBTAIN CS FORGERY/FRAUD(F)	Fraud, False Pretense, & Cheats	14	46.67
4	SCHOOL ATTENDANCE LAW VIOL	Child Abuse	136	45.03
5	FAIL WEAR SEAT BELT-FRONT SEAT	Vehicle	13	41.94
6	MANUFACTURE METHAMPHETAMINE	Drug Offenses	21	39.62
,	SHOPLIFTING CONCEALMENT GOODS	Larcenies & Related	222	39.15
٤	MISREP TO OBTAIN ESC BENEFIT-M	Fraud, False Pretense, & Cheats	23	38.98
9	POSS/DISTRIBUTE METH PRECURSOR	Drug Offenses	65	37.79
10	UTTERING FORGED ENDORSEMENT	Forgery & Counterfeiting	44	37.61

Rank	Offense Description	Offense Category	Frequency	Percent of Offenses
,	INSURANCE FRAUD	Fraud, False Pretense, & Cheats	16	51.63
2	CONSP OBTAIN PROP FALSE PRET	Fraud, False Pretense, & Cheats	36	42.35
3	EXPLOIT DISABLE/ELDER TRUST	Assaults	17	34.69
-	UNLAWFUL OBTAINING CREDIT CARD	Extortion & Gangs	14	32.56
9	CHILD NOT IN REAR SEAT	Vehicle	36	31.03
	A&A DWLR NOT IMPAIRED REV	Vehicle	18	31.03
7	ACCESSORY AFTER THE FACT (F)	Other	9	30.00
8	DISORDERLY CONDUCT-SCHOOL	Public Peace	15	28.30
9	FAIL TO SECURE PASSEN UNDER 16	Vehicle	194	27.06
NORTH	FICTITIOUS INFO TO OFFICER THE NC ASSOCIATION	SENTET COURT Judges, October	29	26.61

OffenseDescription	Offense Category	Count	Percent of offense
1 SEX ACT WITH A STUDENT	Sex Crimes	36	97.30
2 THIRD DEG SEX EXPLOIT MINOR	Sex Crimes	167	96.53
3 USE UNPLUGGED SHOTGUN	Wildlife	39	92.86
4 DWI - MOTOR BOAT/VESSEL	Wildlife	54	90.00
5 FSOLICITATION TO COMMIT STAT SEX OFFENSE CHIL	Sex Crimes	76	89.41
6 DEFACING PUBLIC BUILDING	Property Damage	30	88.24
7 FAIL REPORT/TAG BIG GAME	Wildlife	55	84.62
8 SEX ACT: SUB PARENT/CUSTODIAN	Sex Crimes	53	82.81
9 DRIVE ON GAMELANDS ILLEGALLY	Wildlife	59	80.82
10 MAN JACTURE MARIJUANA	Drug Offenses	46	79.31

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Rank	Offense Description	Offense Category	count	Perce
1	DELIVER COCAINE	Drug Offenses	37	97.
2	DOG FIGHTING	Wildlife	77	96.
3	SELL COCAINE	Drug Offenses	85	94.
4	INVADE PRIVACY - FREE TEXT	Vehicle	30	90.
5	SECOND DEGREE BURGLARY	Breaking & Entering / Burglary	45	90.
6	CONSPIRE SELL/DELIVER COCAINE	Drug Offenses	36	83.
7	PWISD COCAINE	Drug Offenses	519	80.
8	SELL/DELIVER COCAINE	Drug Offenses	334	80
9	PWIMSD COCAINE	Drug Offenses	118	79.
10	ROBBERY WITH DANGEROUS WEAPON	Robbery	203	76.8

Neighborhoods matter...

AOC database includes the home address of the offender

UNC Odum Institute geo-coded all of these addresses

Marty Davidson linked these addresses to databases of housing values and generated a set of "neighborhoods" defined as places with relatively similar housing prices, per square foot. Where the price changes, that's the boundary of the "neighborhood." It works quite well in distinguishing between people living in poor and wealthy areas.

We can use this then in two ways: assess the odds of contact with the criminal justice system, based on your neighborhood; also estimate your income, based on your neighborhood and age.



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Poor people live in close proximity to: Dollar Tree stores, pawn shops, low-income housing. Rich people live near breweries, museums, and colleges.

What is the median income of those in contact with the CJ system? (Blue line) Compare to all registered voters (Orange line)
How far it skews left indicates how much it targets the poor.

Who uses a public defender?

Among Blacks, more of a skew to the poor compared to Whites

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Who fails to comply with court costs?

Again, a combination of race and income.

Who has prior points?

Predictor variables: race, neighborhood rank, income, age.
Black: increases odds by 52 percent
Age: increases by 3 percent
Income: reduces it substantially
Neighborhood: affects it substantially
Controlling for age, income, and neighborhood, Black individuals are 52 percent more likely to have prior points than whites...

Summary from AOC analysis of arrests

Initial contact / arrest is highly targeted by neighborhood.

Certain parts of the criminal code target different types of individuals.

We can therefore sate if these are for social regulation or for public safety.

By using home address, we hope to differentiate race, income, and place. All three factors clear matter, but in what combination?

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Obviously we want to reduce racial disparities if possible
Actually we have to ask if we really do.

Many people are very confortable with a system that leaves them alone, and such people may be a confortable with a system that leaves them alone, and such people may assume that it's working just fine, only targeting criminals and bringing them to the justice they deserve. This may be the majority of NC voters. Other than traffic tickets, most of us have no contact.

These people might be surprised by my statistic above that of 1 to 2 million charges per year, only 2.000 to 5.000 lead to convictions leading to more than 12 months in prison. 5.000 to 1.0.5 percent of 2 million. 50 937-8% of these charges could be called "minor."

To reduce disparities, we have to understand what parts of the system are generating. That's what we're trying to do here.

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Thank you!

Please feel free to ask your questions and to contact me.

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