REPRESENTATIVE BUREAUCRACY AND IMPARTIAL POLICING

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**ABSTRACT** 

Representation theories expect minority officials, including politicians, judges and bureaucrats, to

advance the interests of minority citizens. Yet, little attention has been given to the variation in the

acceptability, incentives and risks of representation across institutional domains. Analysis of over

2 million police vehicle stops from four different departments reveals that African American police

officers do not treat African Americans preferentially, yet they mitigate existing racial disparities

in policing. Compared with White officers, African Americans are less inclined to use their

discretion, and are thereby disinclined to search drivers, yet disposed to cite them, at comparatively

equal rates across social groups. These findings are robust to multivariate specifications, and to

Entropy Balancing reweighting. We attribute African American police officers' impartial policing

style to their compelling need to display their performance, and avoid blame, amidst intra-

organizational pressures and risks ensuing from the political salience of the police's clash with

minority communities.

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## INTRODUCTION

Political science research has shown that greater representation for minority citizens in the legislature and courts, respectively, ameliorates their disadvantage and discrimination in the political and legal spheres (Butler and Broockman, 2011; Broockman, 2013; Chauchard, 2014; Driscoll et al. 2018; Grossman et al. 2016; Juenke and Preuhs, 2012; Kastellec, 2013). Yet minorities are no less, and arguably more, at risk of exposure to discrimination by bureaucrats (cf. Lowande et al. 2019), most notably those at the "street-level" (Lipsky, 1980; Maynard-Moody and Musheno, 2003), such as teachers, social workers and police officers (Baumgartner et al. 2018; Epp et al. 2014; Fording et al. 2011; Hemeker and Rink, 2017; Keiser et al. 2004; Pedersen et al. 2018; Thomann and Rapp, 2018; White et al. 2015).

Representative bureaucracy theory suggests that minorities within the public sector, given their early socialization, have first-hand appreciation for the grievances of minority citizens, and thereby greater value and attitudinal affinity with these groups (Andersen, 2017; Bradbury and Kellough, 2008; Meier, 2018; Riccucci and Meyers, 2004; Sowa and Selden, 2003). Consequently, as far as two minimal domain-specific conditions are fulfilled – minority issues are salient and bureaucrats' structural discretion is relatively broad – minority bureaucrats are expected to pursue a "minority representative role" (Selden et al. 1998), and to treat minority citizens preferentially (Hindera, 1993; Meier, 1993, 2018; Meier and Stuart, 1992; Nicholson-Crotty et al. 2016) so as to counterbalance their overall deprivation (Meier, 2018). Such translation of "passive" (descriptive) minority representation in the bureaucracy into "active" (substantive) outcomes has been most consistently evidenced by studies of the American education system (Andersen, 2017; Atkins and Wilkins, 2013; Dee, 2004, 2005; Jilke and Tummers, 2018; Meier, 1993, Meier and Stuart, 1992; Meier et al. 1999; Nicholson-Crotty et al. 2016; Pitts, 2005). Yet, in American policing, on which

we focus here, despite its significance for minority communities and police officers' discretion, the effect of representation has proved inconsistent, with some studies suggesting that it even exacerbates discrimination of minority citizens (e.g. Anbarci and Lee, 2014; Brown and Frank, 2006; Wilkins and Williams, 2008, 2009; but see Close and Mason, 2006, 2007 and Hong, 2017, in relation to the UK).

The divergent consequences of minority representation across domains indicates that we need to look beyond issue salience and discretion. Specifically, institutionalized domains may vary in the range of acceptable roles and practices from which bureaucrats construe their professional identity. In some policy and organizational domains, such as American education, preferential treatment of disadvantaged minority citizens may be perceived as a legitimate professional practice in pursuit of equal opportunities (Jilke and Tummers, 2018). In such domains, non-minorities sometimes, albeit to a lesser extent, also seek to promote minority clients (Jilke and Tummers, 2018; Selden et al. 1998). Conversely, in other domains, bureaucrats who espouse a minority representative role may be tagged as biased, unprofessional or simply as failing to attain the organization's primary goals (cf. Dunning and Nilekani, 2013). Moreover, as a visible and carefully scrutinized group, minority bureaucrats' discretion may be uniquely constrained by organizational performance pressures and risks (Kanter, 1977).

We argue that in American policing specifically, the centrality of the police's crime fighting role negates preferential treatment of minority citizens by minority officers. Moreover, the political debate and societal anxiety surrounding police-race relations, which activates African American officers' concern for their communities, renders these officers organizationally visible and a threat, by their very presence, to institutionalized practices of racial disparity. This salience exposes African American officers to heightened performance pressures and risks from both

managers and colleagues (Dowler, 2005; Gustafson, 2008; Hassell and Brandl, 2009; Lersch and Mieczkowski 2000; Rojek and Decker, 2009; Stroshine and Brandl, 2011). We offer that African American officers' logical response to these perils is to mitigate blame by closely following legal and departmental rules (cf. Hood, 2011; Portillo and DeHart-Davis, 2009; Portillo, 2012), which precludes their discretionary preference for minority citizens. Doing so nonetheless fulfills the aims of bureaucratic representation and coheres with these officers' concern for their communities, since it mitigates existing racial disparities in policing. Building on existing typologies of police culture research, we typify African American officers' rule-bound response to the institutional pressures that they face as involving adoption of a non-aggressive and non-selective policing style. "Non-Aggressive" meaning officers' high threshold for action on a suspicion that a crime has been committed, and thereby disinclination to use discretionary search; "Non-Selective" that is officers' enforcement of all legal norms, including traffic-safety infractions, as opposed to selective prioritization of felony crimes (Brown, 1988; Oberfield, 2010, 2012; Paoline et al. 2000; Paoline, 2003, 2004; Worden, 1995).

Empirically, our paper makes sense of the behavioral patterns of police officers during more than 2 million individual-level observations of police vehicle stops across four different police departments and locations in the US. We show that African American police officers, compared to other officers, are restrained and impartial in their use of vehicle stops as a means for crime investigation: they are less inclined to aggressively search drivers in pursuit of evidence for crime, more likely to non-selectively issue citations for traffic-safety violations, and are in both cases less inclined to differentiate between African American and White citizens. This pattern is robust to Entropy Balancing reweighting (Hainmueller, 2012) and to alternative model

specifications that are intended to account for possible selection biases in police officers' allocation to different tasks and geographical areas and in their initial decisions to stop cars.

# HOW DOES THE INSTITUTIONAL SETTING OF AMERICAN POLICING SHAPE THE CONSEQUENCES OF MINORITY REPRESENTATION?

Representative bureaucracy theory offers that the translation of passive into active representation is conditioned on minority bureaucrats' structural discretion and the salience of the policy domain for minority communities. In the case of police vehicle stops in the US, both of these baseline conditions are clearly met. Regarding the first condition, police officers, given supervisors' limited reach (Lipsky, 1980), enjoy vast discretion in their deployment of their powers and enforcement of the law (Oberfield, 2010). As to the second condition, the salience of the police's tension with minority communities in general, and of ethnic and racial (hereafter: ethnoracial) disparities in police vehicle stops specifically, are both acutely evident. Minority communities' deep mistrust of the police is entangled with their excessive subjection to speculative crime investigation, inter alia during mundane vehicle stops (Baumgartner et al, 2018; Epp et al. 2014). The war on drugs and crime funneled police attention to proactive crime detection and prevention, at a cost to principles of equal treatment and procedural safeguards, which manifests, among others, in police officers' exploitation of mundane, often trivial, traffic violations as a means for proactive criminal investigation in pursuit of contraband and arrests alongside lenient or variable enforcement of traffic-safety violations. Middle-class White Americans, when stopped for traffic violations, would normally encounter the police's non-selective enforcement of the traffic law and the issue of a ticket, yet they are seldom treated as suspects of crime. Conversely, young African American

and Hispanic men are much more likely to be stopped for investigation over traffic-safety purposes, and to face bodily or vehicle search in pursuit of drugs, arms and other criminal evidence in the absence of apparent cause. Paradoxically, however, because minorities face a higher risk of being stopped and treated within the mind frame of a criminal investigation, they are less likely to be ticketed for traffic violations (cf. Baumgarter et al. 2018, chapter 4).

As representative bureaucracy theory would predict, qualitative and survey-based research confirm that African American police officers are affronted by the police's criminalization and unequal treatment of African Americans communities, and empathic with African Americans' consequent distrust of the police (Moskos, 2008; Morin et al. 2017; Woods, 2014). This is particularly so in the context of mundane vehicle stops, since African American police officers and their families are likely to have been personally subjected to arbitrary stops and search of their bodies and cars (Barlow and Barlow, 2002; Harris, 1999). A recent Pew Research Center survey report (Morin et al., 2017), encompassing representative samples of both American citizens and nearly 8000 police officers across the US, attests for the relative attitudinal congruence of African American police officers and citizens, and for the discrepancy between the latter and White officers' attitudes. Hispanic police officers' attitudes, when reported, either align with those of Whites or fall somewhere in between those of African American and White police officers. An example, among others, is that 69% of African American officers, compared with only 6% of White officers, agree that the US "needs to continue making changes to give blacks equal rights with whites" (ibid, 6). Additionally, reflecting their recognition and concern for minorities' mistrust of the police, whereas 60% of White and Hispanic police officers believe that their departments' relations with the Black community are excellent or good, 68% of African American police officers characterize them as poor or fair (ibid, 16, 53).

Still, we argue that making sense of the consequences of African American police officers' concern and empathy for their communities, as evidenced by the above studies, requires appreciation for the range of acceptable practices that minority police officers can draw upon, and for the distinct risks and performance pressures that inhibit their choices. First, police officers in the US, unlike educators, social workers and members of other helping professions, are not tasked with advancing the welfare of specific clients. They are primarily expected to fight crime and enforce the law. As such, whereas White officers can vindicate the profiling of minorities as vital for fulfilling the police's crime fighting goals, African American police officers cannot legitimately defend treating African Americans leniently and preferentially so as to counterbalance existing disparities. However, they can choose among a range of acceptable policing styles. Police culture research suggests that police officers vary in their inclination to espouse an aggressive and selective policing style, i.e. endorsing a low threshold for action on suspicion of a crime in pursuit of evidence for felonies (Brown, 1988; Paoline et al. 2000; Paoline, 2003, 2004; Paoline and Terrill, 2005; Worden, 1995). In vehicle stops, this heterogeneity manifests in wide variation, at the individual and agency level, in police officers' inclination to non-selectively enforce the law and cite drivers for traffic violations and to aggressively search them in suspicion of criminal activity (Baumgartner et al. 2018, chapter 6). Thus, African American officers are not bound to endorse the aggressive and selective policing style that underlies minority citizens' deprivation and mistrust of the police.

Second, as "token" representatives of their social group (Kanter, 1977, Yoder, 1991), the actions of minority officers are visible and opened to careful scrutiny of both colleagues and supervisors. The heightened surveillance of minority police officers pertains to their small numbers and social status (Kanter, 1977, Yoder, 1991), and to the menace that their very presence imposes

to institutionalized stereotypes, and the resultant insinuation that existing disparities in policing and White police officers' attitudes and practices are racist (Woods, 2014, Ch. 4). Thus, qualitative and survey-based research convey that minority police officers, and African Americans in particular, experience their departments as fraught with animosity and high personal risk (Moskos, 2008; Woods, 2014). Compared with White officers, African Americans, and to a lesser extent Hispanics, are more likely to feel criticized, biased against and ridiculed, by their colleagues (Dowler, 2005; Hassell and Brandl, 2009; Stroshine and Brandl, 2011). They are also more likely to attract formal complaints from same-level officers and supervisors (Lersch and Mieczkowski 2000; Rojek and Decker, 2009). Heightened scrutiny and animosity entail that minority officers are exposed to heightened pressure to display their performance, and to a higher risk of incurring blame for blunders (cf. Belknap and Shelly, 1992; Gustafson, 2008; Martin, 1982; Ott, 1989; Stroshine and Brandl, 2011). Consequently, whereas White police may be able to lie low, and forgo supervisors' performance expectations (Brown, 1988), minority officers, and African Americans most notably, need to evidence their toil. Likewise, while White officers can generally rely on their colleagues to conceal their mistakes or deliberate infringement of citizens' rights, minorities who err in the direction of unlawful usage of their powers expose themselves to a higher risk of disciplinary action.

We propose that African American police officers' response to their predicament is to adopt a default policing style that primarily mitigates their intra-organizational risks and satisfies supervisors' performance expectations, whilst minimizing the psychological harm entailed in aggressive policing of their community. Studies in multiple policy domains, including policing, suggest that public officials who feel insecure vis-à-vis citizens, managers or subordinates, due to their precarious status as tokens (Portillio, 2012; Portillio and DeHart-Davis, 2009) or as

newcomers (Assadi and Lundin, 2018), are induced to adopt rule-bound behavior, and to restrain their use of discretion to mitigate individual blame (Hood, 2011). In policing this would entail non-selective enforcement of all legal norms, and a high-threshold for deploying intrusive legal powers on a suspicion that a crime has been committed. In relation to vehicle stops, the issue of a citation is the natural culmination of an officer's observation of a traffic violation, and a non-risky means for satisfying supervisors' performance expectations, whereas excusing the driver and waiving citation is an act of discretion. Conversely, searching a driver, or their vehicle, subsequent to a vehicle stop, requires that the officer can point to a "reasonable suspicion" that a crime has been committed or else obtain the driver's consent (Epp et al. 2014). What facts fulfil this uncertain legal standard is a matter for organizational direction and individual officer discretion. Hence, if minority police officers are compelled to satisfy supervisors' performance pressures, and to be more vigilant than others, they will be inclined to non-selectively cite drivers, yet avoid expansive interpretation of what amounts to "reasonable suspicion". Such strategy, moreover, coheres with these officers' aversion to existing practices wherein other officers frequently search young African American and Hispanic men based on little more than an intuition. Hence, we lay down the following hypotheses, focusing on African American police officers, whom current ethnographic and survey-based research portray as most empathic with their community and at greatest risk within police departments:

H<sub>1</sub> African American police officers (compared with White officers) are inclined to issue formal citations to drivers, as opposed to warning and/or excusing them for traffic violations (non-selective policing style).

H<sub>2</sub> African American police officers (compared with White officers) are disinclined to search drivers and their cars (non-aggressive policing style).

Finally, an important implication of our expectation that African American officers are inclined to closely follow the rules, and curb their own discretion, is that the outcome of their actions is likely to be more balanced across social groups. Hence, although we do not expect these officers to adopt preferential treatment of minorities, their rule-bound approach coheres with the ultimate aim of bureaucratic representation, namely equal treatment of all. Thus, unlike other domains, the realization of the goals of representative bureaucracy in the case of policing is not enabled by the availability of bureaucratic discretion. Rather, we expect minority bureaucrats to voluntary censor the broad discretion that is granted to them and yet minority citizens gain from this self-restraint. Hence, our third hypothesis suggests that-

H<sub>3</sub> African American police officers (compared with White officers) are inclined to equally cite and search African American and White drivers (impartial policing style).

### **METHODOLOGY**

Our analysis of the association between police officers' ethnorace and their policing styles, in the context of police vehicle stops, is based on four original datasets of citizens who have been pulled over, in which individual-level demographic information is available regarding both officers and drivers, and their ethnorace: Los-Angeles Police Department (LAPD) (2003-2004, N=507,565), Florida Highway Patrol (FHP) (2010-2015, N=775,901), Charlotte-Mecklenburg Police Department (CMPD) (2010-2016, N=802,795) and Louisville Metro Police Department (LMPD)

(2015-2017, N=94,699). Our conclusions are based on separate analyses of each dataset, as well as a merged dataset of over two million observations of police officer/driver contacts. To make the presentation of findings concise and easier to follow, some of the tables, in the paper and Appendix, relate to the merged dataset, in which case we provide compatible tables per each police department in the ON-LINE APPENDIX.

The four datasets comprise police officers' standardized coding of every vehicle stop, and its outcome, for a specified period. Police departments' recording of vehicle stops, including driver demographics, is a prevalent norm across the US. However, the four large datasets, which we employ in this paper, are the only ones that we located, based on extensive search of the web for police datasets and/or for articles and public reports, that refer to such datasets and consequent communications with police departments, which provide information on the ethnorace of both police officers and drivers.

The structure of the data in the four datasets is hierarchic, consisting of vehicle stops, clustered in officers, who are members of regional patrol divisions/troops (18 regional divisions in LAPD, 13 in CMPD, 8 in LMPD and 12 regional troops in FHP). Their similarity notwithstanding, the four datasets vary in the type of information that they provide. The FHP and LAPD datasets both contain officer ID, which allow us to link vehicle stops to individual officers and their regional divisions/troops. Conversely, officer ID has been removed from the LMPD and CMPD datasets. Moreover, in the CMPD dataset, the link between vehicle stops and regional divisions is available for 2016 only, whilst missing for 2010 to 2015. These differences across the datasets entail that our analysis of the merged dataset, and of the LMPD and CMPD datasets, cannot fully account for the hierarchic structure of the data. Further information on the four datasets and police departments is available in ON-LINE APPENDIX Section F.

## **Operationalization of Variables**

Police Officers' Aggressiveness and Selectivity

The dependent variable relates to police officers' display of aggressive practices and/or selective enforcement, following an initial decision, which we do not directly observe, to stop a vehicle. Legally, requiring a driver to pull over entails an alleged basis in the form of a traffic violation. Having stopped a driver, a police officer may decide between multiple unordered choices: *donothing* (including verbal or written warning), issue a *citation* to the driver, *search* the driver, or a passenger's body or their vehicle, and *arrest* the driver or passengers, or a combination of the latter three modes. Following our theoretical framework, we operationalize non-aggressive practice as involving a high threshold for action on a suspicion that a crime has been committed and *disinclination to carry a search* of a driver or a passenger, and non-selective enforcement as entailing rule-bound implementation of traffic infractions and *the issue of citations*. As explained below, we omit arrests from the main analysis.

Appendix Table A1 presents the frequencies of the 3 behavioral choices, as well as arrest, and their possible combinations in each of the four datasets and the merged dataset. As apparent, "citation only" is officers' most prevalent choice (59%), followed by "do-nothing" (34%). The combinations involving search and/or arrest are comparatively rare. We chose to omit instances of arrest from the main analysis given our assumption that an officer's decision to arrest a driver, compared with a decision to search a driver or their vehicle, often entails less discretion. For instance, note that "search & arrest" (1.40%) is more common than "arrest only" (0.34%), since a "successful" search logically leads to an arrest. Arrests without search (involving 0.45% of vehicle stops) likely reflect arrests based on a pre-existing warrant or violent behavior during the vehicle stop contact. Consequently, arrests provide a relatively ambiguous test for variation in officers'

policing styles. Moreover, data on arrests is unavailable in one of the four datasets (LMPD). Hence, omitting arrests allows for greater comparability across the four datasets.

Additionally, to simplify interpretation of officers' choices between do nothing, citation and search, we consider a vehicle stop that resulted in both citation and search as a decision to search, which is the more aggressive mode. However, for robust analysis, we also run the analyses with four, instead of three, alternative modes (do-nothing; citations only; search only; citations & search), and with arrests (do-nothing; citations only; search only or citations & search; all combinations of arrest), to ensure that the reduced specification does not contaminate our findings.

## Officer and Driver Ethnorace

Our key independent variables regard officers' ethnorace, for analysis of H<sub>1</sub> and H<sub>2</sub>, and drivers' ethnorace for analysis of the disparities in officers' citation and search across ethnoracial groups as per H<sub>3</sub>. Our operationalization of officers' ethnorace draws on police personnel records, which likely follow police officers' self-categorization. We limit our analysis to vehicle stops involving White (71%), African-American (16%) and Hispanic (13%) police officers. In all four datasets, each vehicle stop is associated with one, single, police officer ethnorace category. If other police officers were involved in a particular vehicle stop, information about these officers and their ethnorace is unavailable from our datasets. We assume that the police officer who had documented the details of a certain vehicle stop in the police records played a dominant role in the decision. The alternative assumption, which purports that the police officer who records a vehicle stop is selected at random, would presumably drive the estimated coefficient, in case of ethnoracial-mixed teams, towards zero, leading us to retain the null hypothesis.

The operationalization of drivers' ethnorace relies on officers' records during vehicle stops, and thereby on their perception of drivers' ethnorace, involving four categories: White (45%), African-American (32%), Hispanic (18%) and a residual category of "other" (5%).

#### Control variables

In the multivariate analyses of each dataset we control for additional individual, regional and institutional factors, which may affect the choice of a police officer during a vehicle stop. While each dataset afforded a variety of controls, we limited ourselves to those that were available in all, or most, datasets, and to variables that alleviate concerns of selection bias in officers and drivers' allocation to vehicle stops. The list of control variables includes, depending on availability, police officers' individual characteristics (gender, tenure, age), driver characteristics (gender, age), police officers' allocation to regional patrol divisions/troops and time shifts, division-level characteristics (the share of African-American and Hispanic police officers in regional divisions), and the incidence of crime by geographical location. ON-LINE APPENDIX Section B, Tables IIa-IId, report the distribution of the data for each of the available control variables, across the four police departments and years. Information on the operationalization of the control variables in each dataset is available from ON-LINE APPENDIX Section F.

## **RESULTS**

Table 1 presents raw tabulation of the actual choices of police officers, by officer and driver ethnorace, for the merged dataset. We observe that African-American police officers, compared with Whites, are non-selective, being 24% (weighted average) more likely to cite drivers of all

ethnoracial backgrounds. Additionally, African-American police officers, compared with White, are also non-aggressive, displaying 50% (weighted average) lower inclination to search drivers' bodies or their vehicles. Significantly, this pattern of African-American police officers' greater inclination to cite, and lower proclivity to search, replicates across the four police departments (ON-LINE APPENDIX Tables Ia-Id).

[Table 1 about here]

**Table 1: Descriptive Statistics - Merged Dataset** 

	Vehicle stops		Do nothing		Citations		Search	rch Arrest		Search Arrest		
	Obs.	(%)	Obs.	(%)	Obs.	(%)	Obs.	(%)	Obs.	(%)		
AA												
officers	342,986	100	95,185	27.75	236,735	69.02	7,423	2.16	3,643	1.06		
AA												
Drivers	120,843	100	43,066	35.64	72,489	59.99	3,520	2.91	1,768	1.46		
Caucasian												
drivers	143,225	100	35,884	25.05	105,499	73.66	1,078	0.75	764	0.53		
Hispanic												
drivers	60,650	100	12,814	21.13	44,136	72.77	2,702	4.46	998	1.65		
Other	10.260	100	2 424	10.72	14.614	70.00	422	0.67	442	0.63		
drivers Caucasian	18,268	100	3,421	18.73	14,611	79.98	123	0.67	113	0.62		
officers	1,550,172	100	608,305	39.24	862,637	55.65	50,196	3.24	29,034	1.87		
AA	1,550,172	100	608,303	39.24	802,037	33.03	30,130	3.24	23,034	1.07		
Drivers	515,654	100	229,287	44.47	249,921	48.47	23,511	4.56	12,935	2.51		
Caucasian	313,034	100	223,207	77.77	243,321	40.47	23,311	4.50	12,333	2.51		
drivers	741,041	100	290,977	39.27	432,584	58.38	9,863	1.33	7,617	1.03		
Hispanic					,		5,555		.,			
drivers	225,910	100	69,037	30.56	133,086	58.91	15,980	7.07	7,807	3.46		
Other												
drivers	67,568	100	19,005	28.13	47,046	69.63	842	1.25	675	1.00		
Hispanic												
officers	287,701	100	63,071	21.92	188,967	65.68	24,598	8.55	11,065	3.85		
AA												
Drivers	61,426	100	17,859	29.07	34,141	55.58	6,703	10.91	2,723	4.43		
Caucasian												
drivers	98,942	100	21,839	22.07	72,078	72.85	2,893	2.92	2,132	2.15		
Hispanic	102 722	100	20.702	10.00	74.416	74 74	14.402	12.00	F 764	F F.C		
Other	103,732	100	20,702	19.96	74,416	71.74	14,402	13.88	5,764	5.56		
drivers	23,601	100	2,671	11.32	19,884	84.25	600	2.54	446	1.89		
all	25,001	100	2,071	11.52	13,004	34.23	300	2.54	770	1.05		
officers	2,180,860	100	766,562	35.15	1,288,339	59.07	82,217	3.77	43,742	2.01		
AA	,,		,		,,		<u> </u>		-,			
Drivers	697,923	100	290,212	41.58	356,551	51.09	33,734	4.83	17,426	2.50		
Caucasian												
drivers	983,208	100	348,700	35.47	610,161	62.06	13,834	1.41	10,513	1.07		
Hispanic												
drivers	390,292	100	102,553	26.28	240,086	61.51	33,084	8.48	14,569	3.73		
Other												
drivers	109,437	100	25,097	22.93	81,541	74.51	1,565	1.43	1,234	1.13		

Notes: Data on arrest is unavailable for Louisville. Hence, we computed the average frequency of arrest as if there were zero arrests in Louisville, creating a downward bias in the overall average frequency of arrests.

To further examine the diversity of officers' policing styles, we estimate a series of multinomial unordered response logit models of the effect of police officers' ethnorace on the likelihood of their choice between doing nothing, citation and search, following a vehicle stop. In a multinomial logit, the dependent variable y takes the values (0, 1, 2,...,J), and x is a vector of explanatory variables with a list of coefficients  $\beta_j$  for each possible choice j where  $\beta_0$  is set to zero for the baseline choice. Thus, the coefficients should be interpreted in comparison to that baseline choice. The probability that a police officer i choses a particular behavior j is:

$$p_{ij} = P(y_i = j | x_i) = \frac{\exp(x_i \beta_j)}{1 + \sum_{j=1}^{J} \exp(x_i \beta_j)}$$

Our specification of multinomial regressions transcends other research of the outcomes of police vehicle stops. Typically, researchers have employed models that estimate police officers' inclination to cite drivers, *or* search them *or* arrest them, as if these were discrete, and unrelated, choices (e.g. Brown and Frank, 2006; Rojek et al. 2012; Tillyer et al. 2012). Our modeling specification, which simultaneously compares officers' choice between doing nothing, citation and search, provides a more complete picture of police officers' choice and style. Doing so allows us to make sense of African American police officers' inclination to cite and disinclination to search as involving their rule-bound behavior, which previous studies, including those who have reached separately similar empirical conclusions, have overlooked.

Since the sign of the estimated coefficients, in a multinomial logit, does not determine the relationship between a particular explanatory variable and the probability of choosing a certain behavior (Wooldridge 2010, 498), our interpretation of the models, and its presentation, focuses on the estimated marginal effects and predicted probabilities. Table 2 displays marginal effects

from analysis of the merged dataset, considering three possible modes (do-nothing, citation and search). The marginal effects are calculated at the means (MEM)<sup>2</sup> so that each entry of Table 2 presents the change in the predicted probability estimate, for officer/driver ethnorace, assuming that all other variables are set to their mean. The estimates are derived from the multinomial logit model, which is available in Table A2 of the Appendix. The latter model includes, in addition to driver and officer ethnorace, fixed effects for year and police department (18 dummies including the omitted reference category, CMPD 2010), and specify robust standard errors, clustered by year and police department.<sup>3</sup>

Considering hypotheses 1 and 2, Table 2 shows, in line with our first hypothesis, that the predicted probability of citation increases significantly when comparing African-American with White police officers. In contrast, the probability of a search significantly decreases when the officer is African American, compared with a White police officer, which is consistent with our second hypothesis. For robust analysis, we verified that these findings hold when using alternative specification of the dependent variable. We confirm that they hold when splitting the category of "search" into "search only" versus "citation and search" (to be provided upon request), and when including all combinations of "arrest" as a fourth choice (Table A3 of the Appendix). As to Hispanic police officers, Table 2 conversely suggests that they cite on a par with White officers, and search even more than White police officers. However, our analyses of the individual datasets, as elaborated below, suggest that the findings regarding Hispanic officers are inconsistent across police departments and model specifications, thus precluding clear inference in relation to this group of officers.

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<sup>&</sup>lt;sup>2</sup> Our main findings remain the same using average marginal effects (AME).

<sup>&</sup>lt;sup>3</sup> The coefficients presented in the first two columns should be interpreted as a comparison between citations/search and "do-nothing", respectively, given police officers and drivers' ethnicities. In addition, column (3) offers the estimated coefficients of search as compared to citation.

Table 2: The Marginal Effects at Means - Merged Dataset

Α			_
(1)	(2)	(3)	
Do-nothing	Citation	Search	
-0.0909***	0.1030***	-0.0121***	
(0.0185)	(0.0183)	(0.0008)	
0.0011	-0.0061	0.0051***	
(0.0247)	(0.0244)	(0.0006)	
0.0051	-0.0343***	0.0292***	
(0.0121)	(0.0130)	(0.0015)	
-0.0024	-0.0263	0.0286***	
(0.0228)	(0.0249)	(0.0035)	
-0.0633***	0.0690***	-0.0057***	
(0.0124)	(0.0117)	(0.0008)	
2,180,860	2,180,860	2,180,860	
	(1) Do-nothing -0.0909*** (0.0185)  0.0011 (0.0247)  0.0051 (0.0121)  -0.0024 (0.0228)  -0.0633*** (0.0124)	(1) (2) Do-nothing Citation  -0.0909*** 0.1030*** (0.0185) (0.0183)  0.0011 -0.0061 (0.0247) (0.0244)  0.0051 -0.0343*** (0.0121) (0.0130)  -0.0024 -0.0263 (0.0228) (0.0249)  -0.0633*** 0.0690*** (0.0124) (0.0117)	(1)     (2)     (3)       Do-nothing     Citation     Search       -0.0909***     0.1030***     -0.0121***       (0.0185)     (0.0183)     (0.0008)       0.0011     -0.0061     0.0051***       (0.0247)     (0.0244)     (0.0006)       0.0051     -0.0343***     0.0292***       (0.0121)     (0.0130)     (0.0015)       -0.0024     -0.0263     0.0286***       (0.0228)     (0.0249)     (0.0035)       -0.0633***     0.0690***     -0.0057***       (0.0124)     (0.0117)     (0.0008)

<sup>\*\*\*</sup> p<0.01, \*\* p<0.05, \* p<0.1;

Notes: Table entries are marginal effects (in units of probabilities) calculated based on the multinomial logit model presented in Table A2 below. The standard errors of these marginal effects are computed employing the delta method. "White" is the omitted category for "officer" and "driver" ethnicity.

Moving to separate analyses of each dataset, we add individual, organizational and geographic-level controls, which are available for the four police departments, to account for potentially confounding variables, which due to different operationalization, and availability, we are unable to include in the unified dataset analysis. ON-LINE APPENDIX Tables IIIa-IIId demonstrate the estimated marginal effects at means for each of the four police departments, as derived from the multinomial regression models in ON-LINE APPENDIX tables Va toVd. The first panel in each table (A) is based on an identically structured multinomial models as in Table 2 of the merged dataset – assessing the effect of officer and driver ethnorace, including year fixed-effects. Next, the estimates in panel B are derived from models that include controls for additional officer and driver individual characteristics, such as gender and age as well as division/troop and hour fixed effects. Last, the models, from which we derive the estimates in panel C, replace

division/troop fixed effects with division/troop characteristics, including the share of African-American and Hispanic police officers in a division and, where available, the rates of crime in the smallest area for which we have information.<sup>4</sup>

The estimated marginal effects, as reported in ON-LINE APPENDIX Tables IIIa-IIId, confirm that our main finding, as per H<sub>1</sub> and H<sub>2</sub>, according to which African-American police officers, compared with Whites, are significantly more likely to cite, but less likely to search, emerges consistently across all four police departments. It is robust to alternative model specifications (Panels A to C). African American police officers' higher inclination to cite drivers is only marginally significant when adding division-level characteristics (panel C) for CMPD, but note that the regression is based, due to data limitations, on a significantly reduced sample from this dataset.

Conversely, the findings regarding Hispanic police officers, in Tables IIIa-IIId of the ON-LINE APPENDIX, are inconsistent and sensitive to the examined police department and the estimated statistical model. In LAPD Hispanic police officers appear less inclined to cite and more inclined to search in Panel A, yet this effect vanishes with the introduction of controls in Panels B and C. In FHP the effects are insignificant across all model specifications. In CMPD the significance and direction of the effects is sensitive to the chosen statistical model. Finally, in LMPD, the finding that Hispanic officers are less inclined to cite and more disposed to search is consistent in panels A and B, but not in C. We speculate that the apparent inconsistency in the policing styles of Hispanic police officers reflects the heterogeneity underlying the administrative category of "Hispanic," and its changing composition across departments (comprising of Cubans,

<sup>&</sup>lt;sup>4</sup> All models estimate robust standard errors, which are clustered at the officer level in relation to LAPD and FHP, and at the division level at LMPD and CMPD (panel C/2016 only, given missing information on officers' allocation to divisions for the years 2010-2015/panels A & B).

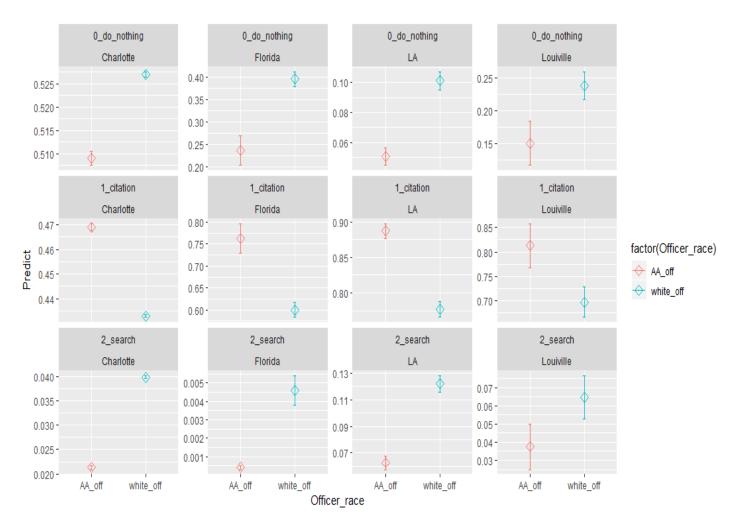
Mexicans, Puerto Ricans, and more, who may not share similar attitudes, performance pressures and risks). These indistinct findings are also consistent with the findings of ethnographic and survey-based research, as discussed in the theoretical section.

To further facilitate interpretation of the above results, Figure 1 presents the predicted probabilities that an African American police officer (in red) compared with a White police officer (in blue) chooses to do nothing (upper row), cite (middle row) or search (lower row) a driver, per police department. The predictions for Charlotte, Florida, LA and Louisville are displayed in the columns from left to right, based on the uniform panel A of the multinomial regression models in On-Line Appendix Tables Va and Vd. The estimated probabilities are calculated so that the control variables (drivers' ethnorace and year fixed effects) are set to their mean. Predicted probabilities based on Panels B and C of the regression models are available from the authors upon request.

As evident from the point estimates and confidence intervals in Figure 1, in all four police departments African American police officers, compared with White officers, are significantly less likely to let a driver off with no consequences (do nothing), more likely to issue a citation and less likely to carry out a search. Specifically, the probability that an African American police officer cites a driver ranges from a maximum of 89% in LA to a minimum of 47% in Charlotte, whereas that of a White officer ranges from 78% in LA to 43% in Charlotte. The probability that an African American police officer searches a driver ranges from 6% in LA to 0.04% in Florida, whereas that of a White officer ranges from 12% in LA to 0.5% in Florida. In all four departments, the 95% confidence intervals of African American police officers do not overlap with those of White officers.

## [Figure 1 about here]

Figure 1: Predicted Probability of Nothing-Done, Citation and Search for African American and White Officers by Police Department



Notes: Point estimates are predicted probabilities, derived from panel A of the multinomial models in On-Line Appendix Tables Va and Vd. The standard errors of these predicted probabilities are computed employing the delta method.

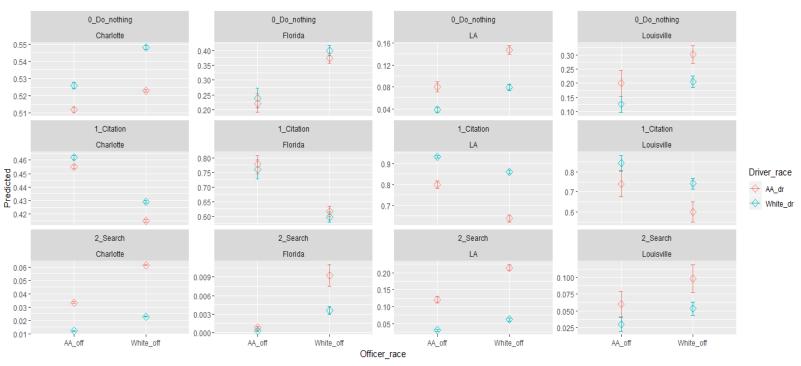
Having confirmed H<sub>1</sub> and H<sub>2</sub>, we further assess H<sub>3</sub>, according to which African American officers' restrained use of their discretion to waive citations for traffic violations and to deploy the power to search is associated with smaller ethnoracial disparities in policing. A direct examination of this hypothesis would involve estimation of an interaction term (officer ethnorace\*driver ethnorace) in our baseline regression. Yet, such direct test is not applicable because the sign of the estimated coefficient in a multinomial regression does not reliably indicate the direction of the effect (Wooldridge 2010, 498), and the marginal effects cannot be independently estimated for an interaction term (Williams 2012). To examine this hypothesis indirectly, we display predicted probabilities per driver and officer ethnorace dyads based on multinomial regression models without interaction,<sup>5</sup> and compare the difference in the marginal effects (MEM) of the probabilities that an African American compared with a White driver are excused, cited or searched given an African American versus a White officer.

Figure 2 displays the predicted probabilities that an African American driver (in red) compared with a White driver (in blue) will be let off with no penalty (upper row), cited (middle row) or searched (lower row) by an African American versus a White police officer, per police department.

[Figure 2 about here]

<sup>&</sup>lt;sup>5</sup> Predictions are based on panel A of the multinomial regression models in On-Line Appendix Tables Va and Vd. (For a tabled format of the results see ON-LINE APPENDIX Tables IVa to IVd).

Figure 2: Predicted Probability of Nothing-Done, Citation and Search for African American and White Drivers by Officer Ethnorace and Police Department



Notes: Point estimates are predicted probabilities, derived from panel A of the multinomial models in On-Line Appendix Tables Va and Vd. The standard errors of these predicted probabilities are computed employing the delta method.

Eyeballing Figure 2, clear and consistent patterns emerge. First, counter to a simple inference of what bureaucratic representation might entail, African American officers do not treat African American citizens preferentially. Rather, both African American and White police officers are less likely to cite African American drivers (in Charlotte, LA and Louisville), and more likely to search them (in all four police departments). Moreover, in the four departments, the findings of H<sub>1</sub> and H<sub>2</sub>, according to which African American police officers are more likely to cite and less likely to search extend to both African American and White drivers.

Second, and key to our argument, in accord with H<sub>3</sub>, across all police departments, the marginal differences in the treatment of African American and White drivers are smaller when the police officer is African American. An elaborate example best illustrates this: In LA, African American officers are predicted to cite 93% of White drivers and 80% of African American drivers, and to search them at rates of 3% and 12%, respectively. White officers are predicted to cite only 86% of White drivers and 64% of African American drivers, and to search them at rates of 6% and 21%, respectively. Accordingly, the marginal differences in probabilities across driver ethnorace amount to 13% for citation and 9% for search when the officer is African American, and to 22% and 15%, respectively, when the officer is White. Hence, when the officer is African American, compared with a White officer, the ethnoracial disparities in citation rates are reduced by circa 9% (p<0.01) and those in search by around 6% (p<0.01). Table 3 summarizes the differences in the marginal effects, and their significance, across the four police departments, showing that an African American compared with a White officer reduces the estimated ethnoracial disparity in the probability of citation by a range of 0.7% in Florida to 8.8% in LA, and the disparity in the probability of search by a range of 0.52% in Florida to 6.25% in LA.

Table 3: Contrast of Marginal Effects for an African American (vs. White) Driver Given an African American (vs. White) Officer

	Do Nothing	Citation	Search
LAPD	2.51%***	8.8%***	6.25%***
FHP	0.8%***	0.2% (N.S)	0.52%***
CMPD	1.1%***	0.7%***	1.75%***
LMPD	2.2%*	3.6%*	1.49%*

<sup>\*\*\*</sup> p<0.01, \*\* p<0.05, \* p<0.1.

Notes: Table entries are differences in absolute percentages of the marginal effects at means of the probability that an African American (vs. White) driver is excused, cited or searched given an African American (vs. White) police officer. Standard errors (not presented), and significance, are computed employing the delta method.

### **ROBUST ANALYSIS**

Finally, we cannot ignore the concern that police officers are not randomly assigned to individual instances of vehicle stops, which endangers the validity of our findings regarding the distinct policing style of African American officers. We address this concern in two complementary ways. First, we re-estimated the effect of officer ethnorace, per each dataset, using the preprocessing Entropy Balancing reweighting method (Hainmueller, 2012), which matches the covariate distribution of the group of African Americans officers and that of a reweighted group of White and Hispanic officers. These covariates, as described in ON-LINE APPENDIX sections B and F, include driver demographics (ethnorace, age and gender), additional officer attributes (age, gender, tenure, [and task in LAPD]), division and geographical area characteristics (crime rates and the percentage of African American and Hispanic police officers) and vehicle stop characteristics (hour of stop [and reason for stop for CMPD]). As evident from Table 4, the inference from the marginal effects, derived from Panels C of On-Line Appendix Tables IIIa to IIId, regarding African American officers' disinclination to search drivers and their cars, and their tendency to cite them, are robust to this matching methodology (other than citation in LMPD).

**Table 4: Marginal Effects for African American Officer Per Dataset (Base vs. Reweighted)** 

	Baseline (Panels C <sup>^</sup> )			Entropy Balancing Reweighting		
	Do-nothing	Citation	Search	Do-nothing	Citation	Search
LAPD	-0.0289***	0.0552***	-0.0263***	-0.016***	0.035***	-0.019***
	(0.00698)	(0.00980)	(0.00446)	(0.0049)	(0.0081)	(0.0048)
Florida	-0.0969**	0.0998**	-0.00294***	-0.082**	0.084**	-0.002***
	(0.0433)	(0.0434)	(0.000471)	(0.0344)	(0.0344)	(0.0004)
CMDP	-0.115*	0.125*	-0.0103***	-0.121*	0.133*	-0.012***
	(0.0620)	(0.0640)	(0.00281)	(0.0678)	(0.0708)	(0.0042)
LMDP	-0.0462*	0.0582**	-0.0119***	-0.030	0.042	-0.012***
	(0.0269)	(0.0295)	(0.00383)	(0.0289)	(0.0322)	(0.0044)

<sup>\*\*\*</sup> p<0.01, \*\* p<0.05, \* p<0.1;

Notes: Table entries are marginal effects (in units of probabilities). The standard errors of these marginal effects are computed employing the delta method.

Second, as detailed below, we use conventional multivariate analyses of each dataset, employing the same controls that we used for matching in the entropy balancing procedure, as well as analysis of two subsamples of clear-cut traffic-safety stops, to mitigate concerns of selection biases in officers' allocation to drivers, to different time shifts and tasks and in their reasons for stopping cars.

African American and White Police Officers Stop Different Types of Drivers

One concern is that African American and White police officers tend to stop drivers of different profiles, with some being more likely to elicit citations and others being more likely to evoke police officers' suspicion and search.

<sup>^</sup>The "Baseline" predictions are presented in full in Panel C of Tables IIIa to IIId of the ON-LINE APPENDIX.

In binary logit regression models, in which driver ethnorace is the dependent variable and officer ethnorace is the predictor, we find that in all four police departments vehicle stops involving African American drivers are significantly more likely to be performed by African American officers (to be provided upon request). This finding is consistent with prior research, which suggests that police departments tend to assign African American/Hispanic officers to predominantly African American/ Hispanic neighborhoods (e.g. Antonovics and Knight, 2009). Yet, this bias only strengthens our confidence in the finding that African American officers are disinclined to search and inclined to cite, since it entails that their distinct policing style emerges despite the fact that they disproportionately encounter a population of drivers that most police officers are less inclined to cite and more likely to search.

Additionally, to partially control for unobserved associations between officers and drivers' profiles that may account for citation/search, the multinomial models in On-Line Appendix Tables Va to Vd control, in addition to drivers' ethnorace, for drivers' age and gender. Moreover, while we cannot estimate whether a reasonable suspicion that a crime has been committed, warranting a search, existed in an individual driver's case, panels C of On-Line Appendix tables IIIc and IIId, regarding CMPD and LMPD, control for the annual crimes rates within the regions of each patrol division and demonstrate consistent results. Still, a patrol division's geographic area is quite large. The LAPD dataset, conversely, includes detailed information about crime rates in specific "reporting districts" within which a specific stop took place (representing areas of approximately ten blocks). On-Line Appendix Table IIIa panel C shows that our main results, regarding the patterned behavior of African American, versus White, police officers, are robust to the inclusion of LAPD district characteristics. The latter results are similar when including LA district fixed effects (N=1,880) instead of district characteristics.

African American and White Police Officers Are Assigned to Difference Shifts and Tasks

An additional concern is that our findings conceal African American/White officers' disproportionate assignment to different *types* of tasks or shifts within the same patrol divisions. Specifically, African American police officers may be overrepresented in teams focusing on traffic violations (and thereby inclined to issue citations), and White officers may be overrepresented in teams tasked with emphasis on crime prevention (ensuing more search). Luckily, the LAPD dataset allows us to account for police officers assignment to "traffic" versus "patrol" tasks, within the same patrol divisions, a phenomenon that may be unique to this department, as we do not observe such categorization in any of the other datasets. Panels B and C of On-Line Appendix Table IIIa are based on multinomial models that control for officers' assignment to tasks. The models suggest, as one would expect, that "patrol officers" and "other type officers," compared with "traffic officers", are more selective (less inclined to issue citations), and more aggressive (relatively inclined to conduct searches). Still, the main finding, regarding the difference between African American and White police officers, is robust to police officers' allocation to tasks.

Additionally, African American and White officers may be assigned to different shifts, which are associated with different types of vehicle stops. To control for such differences, we estimated the marginal effects in On-Line Appendix Tables IIIa (LAPD), IIIb (FHP) and IIId (LMPD), Panels B and C, with controls for the time of the stop (hour and minutes). The time of stop is unavailable for CMPD. Our main results are resilient to the introduction of the time of the vehicle stop.

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<sup>&</sup>lt;sup>6</sup> According to Alpert et al. (2006), who took part in the design of that specific dataset, "Patrol officers are generally responsible for patrolling the City, investigating crime, responding to calls for service, and enforcing traffic law. Traffic officers are primarily responsible for enforcing traffic laws and investigating accidents" (ibid, 16).

African American and White Police Officers Stop Drivers for Different Reasons

Finally, yet another possibility is that African American and White police officers stop similar drivers for different reasons. Specifically, White officers may be more inclined to exploit trivial traffic violations as a pretext for stopping drivers in pursuit of evidence for felony crimes, leading to a high propensity that a search would be conducted and that a citation would *not* be issued. Theoretically, this scenario, if correct, is consistent with our fundamental argumentation, and may provide an additional empirical manifestation of the same logic. If, as we argue, African American officers need to avoid intra-organizational risks, and are affronted by the criminalization of their communities, then it makes sense for them to forgo the dubious practice of investigation stops and thereby display lower levels of search. Yet, given their compelling need to exhibit robust performance, these officers need to conduct a fair amount of real traffic safety stops, and cannot afford to warn drivers and let them off with no citation.

Still, additional robust analyses suggest that African American officers are more likely to cite, and less likely to search drivers even in the context of stops ensuing from clear traffic-safety violations. The FHP and CMPD datasets both include elaborate coding of the initial reason for stop. We thus rerun the same regression analyses on sub-samples of patent traffic-safety stops in FHP<sup>7</sup> (N=443,361 out of N=775,901) and CMPD<sup>8</sup> (N=258,116 out of N=802,795). The finding that African American police officers are non-selective and non-aggressive firmly holds in the two subsamples (to be provided upon request).

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<sup>&</sup>lt;sup>7</sup> Including stops coded as related to "Speed", "Careless Driving", "Driving Without Headlights", "Reckless Driving" and "Driving on Wrong Side of Road".

<sup>&</sup>lt;sup>8</sup> Including stops coded as related to "Speeding" and "Stop Light/Sign".

#### DISCUSSION

Our separate and aggregate analyses of nearly 2.2 million vehicle stops from four US police departments reveal that African American police officers, compared with both White and Hispanics, use their discretion in a distinct non-aggressive and non-selective manner. They are less inclined to act on a suspicion that a driver has committed an unobserved crime and carry out a search, while more likely to cite drivers for observed traffic violations. Set against the expectation that minority representation in state institutions generally entails preferential treatment of minority citizens, we conversely find that African American police officers search both African American and White citizens at a lower rate and cite them at a higher rate. Still, we argue and show that African American police officers' non-aggressive and non-selective policing style fulfils the fundamental aims of bureaucratic representation via mitigation of ethnoracial disparities in citation and search. These findings replicate across the four police departments, are robust to alternative multivariate regression modelling and to entropy balancing reweighting. Their substantive significance, as depicted by the predicted probabilities in figures 1 and 2, and by the estimated reduction in ethnoracial disparities in table 3, is large.

Our interpretation of the above findings suggests that the effect of minority representation in the police is conditioned by the institutional context of American policing. In line with the predictions of representative bureaucracy theory, ethnographic and survey-based research, on which we draw, suggests that African American police officers, as members of a criminalized social group, are empathetic for the grievances of African American citizens and their distrust of the police (Moskos, 2008; Morin et al. 2017; Woods, 2014). Yet, as officials in an institution that fights crime and enforces the law, minority officers cannot legitimately favor minority citizens so as to offset their disadvantage, which others rationalize as vital for achieving the institution's goals.

Moreover, as token representatives of a community, which poses a relentless challenge to the police's legitimacy and authority, the actions of African American officers are carefully scrutinized by their colleagues and supervisors, subjecting them to heightened intra-organizational performance pressures and risks (Dowler, 2005; Hassell and Brandl, 2009; Lersch and Mieczkowski 2000; Moskos, 2008; Morin et al. 2017; Rojek and Decker, 2009; Woods, 2014).

We propose that heightened exposure to performance pressures and risks induces African American police officers to mitigate blame by self-restraining their use of discretion (Assadi and Lundin, 2011; Hood, 2011; Portillio, 2012; Portillio and DeHart-Davis, 2009) vis-à-vis all citizens. Consequently, they reserve their discretionary power to search to clear cases of "reasonable suspicion," which are unlikely to instigate legal challenge or complaints, and satisfy supervisors' performance expectations via non-selective issue of citations for traffic violations. Their constrained use of discretion precludes preferential treatment of minorities. Yet, it coheres with, and is likely reinforced by, these officers' empathy for minority citizens, since it shuns unfounded criminalization and mitigates ethno-racial disparities.

Notwithstanding the regularity and robustness of the above empirical findings, and the ethnographic and survey-based underpinning of our interpretation, some inherent limitations remain. *First*, our explanation for African American police officers' distinct patterned behaviors rests on the findings of previous qualitative and survey-based research, as opposed to direct assessment of the attitudes of the police officers in our datasets. *Second*, our deployment of entropy balancing reweighting, multivariate regression controls and analysis of two subsamples of patent traffic-safety violations cannot fully eliminate the risk that the findings are driven by an unobserved factor that simultaneously accounts for African American/White police officers' allocation to vehicle stops, and their differential inclination to cite and search drivers. *Third*, from

a normative standpoint, one could argue that it is not necessarily the case that White police officers act on a low threshold for suspicion, which violates citizens and most prominently minorities' rights, but rather that African American officers are disinclined to act on cases of patent "reasonable suspicion." While analytically possible, ample evidence suggests that the high value that police officers attach to crime fighting leads them to devalue citizens' procedural rights (Brown, 1988; Paoline et al. 2000; Paoline, 2003, 2004; Worden, 1995).

## **CONCLUSION**

Enhancing minority representation among legislators, judges and bureaucrats has been advocated as a means for alleviating concerns of minority discrimination. This article makes four contributions to current research of representation in the police, the bureaucracy and other institutional domains. First, it disputes the allegation, by some, that minority police officers, and African Americans specifically, owing to their need to display their loyalty to their colleagues and departments, are ultra-oppressive towards minority citizens. Our findings indicate, to the contrary, that African American police officers, due to their heightened exposure to performance pressures and risks, are inclined to deploy their powers impartially, with due regard to the law and to citizens' procedural rights. This, we believe, underscores the transformative potential of increased representation of African Americans within the police, and its benefits for all citizens (cf. Meier et al. 1999) and for minorities specifically. However, our postulation should not be understood as suggesting that we advocate intra-organizational intimidation of minority officers. Rather, we believe that a police culture that instills respect for citizens' procedural rights, alongside equal scope for police officers to forgo legal enforcement in pertinent cases (e.g., first violation by an

otherwise law-abiding citizen), is even more likely to foster citizens' trust and cooperation with the police.

Second, police culture research has failed to confirm a systematic effect to police officers' demographics on their policing styles (Paoline, 2000; Paoline and Terrill, 2005). We, conversely, find strong support for the expectation that increased diversity of the American police, and the entrance of African Americans specifically, is corroding its traditional aggressive and selective policing practice (cf. Paoline, 2003: 208), and the ethnoracial disparities that it enables.

Third, it is often believed that organizational socialization obliterates individuals' identities as members of different societal groups. Such identity erosion seems most likely in the case of the police, given its semi-military training, and on-the-job risks, which engender strong group loyalty and estrangement from the public (e.g. Van Maanen, 1975). Our study, conversely, in accord with the fundamental claims of representation theories, suggests that individuals' social identities, as partially reflected in their demographic characteristics, exerts systematic influence on their choice of response to organizational demands even within this extreme setting. Still, our explanation stresses that the manifestation of social identification is delimited by minority officials' distinct exposure to intra-organizational pressures and risks.

Fourth, and most important, is the implication of our findings for the likely variation in the effect of minority representation across institutional domains within the same country and across countries. Extant research predicts that minority officials, in the legislature, court system and bureaucracy, are likely to act preferentially towards minority citizens - an expectation that our findings do not confirm. We offer that in some institutional settings, such as the Democratic Party or the American education system, for example, favoring minority constituents or clients is defensible and even celebrated, allowing minority officials, who empathize with their

communities' grievances, to treat them preferentially. Conversely, in other contexts, like American policing, minority officials' preferential treatment of their group members may be denounced as biased, unprofessional or undermining the attainment of organizational goals. This may explain why the voting of Latino and African American Republican legislators is no more liberal than their White co-partisans, whereas minority Democrats' voting is distinctly so, holding constant the makeup of district populations (Juenke and Preuhs, 2012). Moreover, minority officials may face unique performance pressures and intra-organizational risks that run against preferential treatment of minority citizens. Still, the multiplicity of institutions' goals allows gender and ethnoracial minority officials, as well as others, a degree of latitude among institutionally-legitimate interpretations of their role. Consequently, minority officials, who enter an organization or position, can choose to imitate and embrace certain role models and self-concepts over others. We expect minority officials' choices among available roles to be partially shaped by their identification with minority citizens (and resultant in-group concerns), and the heightened performance pressures and risks that they face as tokens within their organizations. This inference suggests that assessments of the effect of minority representation must be based on profound qualitative understanding of the performance pressures, risks, and institutionalized roles that officials face within distinct occupational and organizational settings.

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## **APPENDIX: MERGED DATASET**

**Table A1: The Distribution of Alternative Choices By Dataset** 

	Los-Angeles	Florida	Charlotte-	Louisville	Merged**
	Police	Highway	Mecklenburg	Metro Police	Dataset
	Department	Patrol	Police	Department*	
			Department		
	2003-2004	2010-2015	2010-2016	2015-2017	
Do-nothing	50,932	281,120	413,190	2,132	747,374
	(10.04%)	(36.23%)	(51.47%)	(22.51%)	(34.10%)
Citation Only	380,808	490,102	349,963	67,466	1,288,339
	(75.04%)	(63.17%)	(43.59%)	(71.24%)	(58.78%)
Search Only	13,956	1,269	12,158	2,567	29,950
	(2.75%)	(0.16%)	(1.51%)	(2.71%)	(1.37%)
Arrest Only	732	109	6,648	-	7,489
	(0.14%)	(0.014%)	(0.83%)		(0.34%)
Citation and	38,702	1,119	9,100	3,346	82,267
Search	(7.63%)	(0.14%)	(1.13%)	(3.53%)	(3.75%)
Citation and	991	1,403	0	-	2,394
Arrest	(0.20%)	(0.18%)	(0%)		(0.11%)
Search and	18,796	206	11,736	-	30,738
Arrest	(3.70%)	(0.03%)	(1.46%)		(1.40%)
Citation, Search	2,548	573	0	-	3,121
and Arrest	(0.50%)	(0.07%)	(0%)		(0.14%)
Total	507,465	775,901	802,795	94,699	2,191,672
	(100%)	(100%)	(100%)	(100%)	(100%)

<sup>\*</sup> Data on arrests is unavailable.

<sup>\*\*</sup> The frequency of arrest is computed as if there were zero arrests in Louisville.

**Table A2: Multinomial Regression Coefficients - Merged Dataset** 

	A				
	(1)	(2)	(3)		
	Citation Vs. Nothing-Done	Search Vs. Nothing-Done	Search Vs. Citation		
AA	-0.454***	-0.375***	-0.829***		
Officer	(0.093)	(0.087)	(0.046)		
Historia officer	-0.013	0.184**	0.196***		
Hispanic officer	(0.110)	(0.080)	(0.037)		
AA	-0.069	1.162***	1.231***		
Driver	(0.056)	(0.071)	(0.103)		
Historia duivan	-0.034	1.170***	1.204***		
Hispanic driver	(0.107)	(0.115)	(0.163)		
Other	0.310***	-0.368***	-0.678***		
Driver	(0.064)	(0.095)	(0.045)		
Observations	2,180,860	2,180,860	2,180,860		

<sup>\*\*\*</sup> p<0.01, \*\* p<0.05, \* p<0.1;

Notes: Table entries are log odds coefficients. Robust standard errors in parentheses. Standard errors are clustered at the level of the year/dataset. "White" is the omitted category for "officer" and "driver" ethnorace. Year/dataset FE are included.

Table A3: Sensitivity analysis: Marginal Effects Including Arrest – Merged Dataset

	А			
	(1)	(2)	(3)	(4)
	Do-nothing	Citation	Search	Arrest
AA	-0.0903***	0.104***	-0.00702***	-0.00660***
Officer	(0.0190)	(0.0194)	(0.0006)	(0.0008)
Hispanic officer	-0.000492	-0.00504	0.00302***	0.00250***
Hispanic officer	(0.0249)	(0.0247)	(0.0003)	(0.0006)
AA	-0.00179	-0.0308**	0.0232***	0.00937***
driver	(0.0120)	(0.0129)	(0.0004)	(0.0009)
Hispania drivar	-0.00744	-0.0250	0.0216***	0.0109***
Hispanic driver	(0.0237)	(0.0255)	(0.0023)	(0.0010)
Other	-0.0691***	0.0756***	-0.00289***	-0.00364***
driver	(0.0115)	(0.0110)	(0.0004)	(0.0003)
Observations	2,086,161	2,086,161	2,086,161	2,086,161

<sup>\*\*\*</sup> p<0.01, \*\* p<0.05, \* p<0.1;

Notes: Table entries are marginal effects (in units of probabilities) calculated based on multinomial logit models, which include arrest as a fourth choice (available upon request). The standard errors of these marginal effects are computed employing the delta method; "White" is the omitted category for "officer" and "driver" ethnorace; The analysis excludes the Louisville dataset since it does not contain data on arrests. Year/dataset FE are included.