INTRODUCTION	Empirical strategy	Results	CHANNELS	CONCLUSIONS
000000	00000	000	000000000	0

Does the identity of leaders matter for education? Evidence from the first black governor in the US

Mery Ferrando¹ Véronique Gille²

¹CORE - Catholic University of Louvain, Belgium.

²DIAL - IRD, France.

UNU-WIDER conference on Human Capital and Growth

June 7, 2016

◆□ ▶ ◆□ ▶ ◆ □ ▶ ◆ □ ■ ■ ● ● ●

INTRODUCTION	Empirical strategy	Results	Channels	Conclusions
•00000	00000	000	000000000	0

CONTRIBUTION

- Effect of leaders belonging to minority groups on educational outcomes of teenagers from the same minority group.
- Case study: first African American governor ever elected in the US.
- Channels: Policies or Aspirations?
- ► Focus on high school outcomes in the US.

ロト 4 母 ト 4 ヨ ト ヨ ヨ ら 9 0 0

INTRODUCTION	Empirical strategy	Results	Channels	Conclusions
00000	00000	000	0000000000	0

MOTIVATION

- Benchmark voting model of political economy => No room for identity
- Increasing evidence that identity of politicians matters for outcomes
 - ► Bhalotra *et al.* (2014); Clots-Figueras (2012); Franck and Rainer (2012).
- ► Policy implications: take into account identity of elected leaders
 - ex: quotas for minorities

・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・

 INTRODUCTION
 Empirical strategy
 RESULTS
 CHANNELS
 CONCI

 000000
 00000
 000
 000000000
 0

OUR CASE STUDY: ELECTION OF DOUGLAS WILDER - VIRGINIA IN 1990.



Ferrando - CORE, UCLouvain Education & politicians from minorities

200

INTRODUCTION	Empirical strategy	RESULTS	CHANNELS	CONCLUSIONS
000000	00000	000	000000000	0

OUR CASE STUDY: ELECTION OF DOUGLAS WILDER - VIRGINIA IN 1990.

"It's a victory for America," said the Rev. Jesse Jackson.

"I never thought I'd see this. It's the highlight of a lifetime," said Wells, who grew up here.

SOR

CHANNELS FOR EFFECT OF POLITICIANS FROM MINORITIES ON EDUCATIONAL OUTCOMES:

- policies oriented to minorities
 - Chattopadhyay and Duflo (2004).
- changes in **aspirations** of parents and young people about how much they can achieve
 - Beaman *et al.* (2012); Wolbrecht & Campbell (2007); DellaVigna (nd).
- ► changes in **discrimination** and racial perceptions

요즘 소문을 드렸다.

SOR

INTRODUCTION	Empirical strategy	RESULTS	CHANNELS	CONCLUSIONS
00000	00000	000	000000000	0

PREVIEW OF THE RESULTS:

- Main finding: Among African Americans when Douglas Wilder is in power:
 - ▶ increase in high school diploma (~ 17 pp.)
- ► Channels:
 - **Policies:** cannot fully explain the impact
 - Aspirations: Increase in self-rated ability and drive to achieve

ロト 4 母 ト 4 ヨ ト ヨ ヨ ら 9 0 0

Introduction 000000	Empirical strategy •••••	Results 000	Channels 000000000	Conclusions 0

Data

Sources

- ► CPS Current Population Survey. Basic sample.
 - Individual microdata on school enrolment and attainment
 - Monthly data
 - ► 1984-1993
- ► Census 2000; Freshmen survey; Census of Governments.

シック 正同 《日》《日》《日》 《四》

7 / 25

Introduction 000000	Empirical strategy •••••	Results 000	Channels 000000000	Conclusions 0

Data

Sources

- ► CPS Current Population Survey. Basic sample.
 - Individual microdata on school enrolment and attainment
 - Monthly data
 - ► 1984-1993
- ► Census 2000; Freshmen survey; Census of Governments.

Main outcome: High school diploma

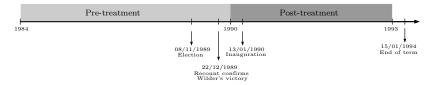
- ► 1 if high school diploma; 0 otherwise
- ► 18-19 years old

シック 正同 《日》《日》《日》 《四》

INTRODUCTION	Empirical strategy	RESULTS	CHANNELS	CONCLUSIONS
000000	00000	000	000000000	0

IDENTIFICATION STRATEGY

Figure 1: Time line of events and strategy



UNU-WIDER Conference 8 / 25

◆□ ▶ ◆□ ▶ ◆ □ ▶ ◆ □ ■ ■ ● ● ●

INTRODUCTION	Empirical strategy	RESULTS	CHANNELS	CONCLUSIONS
000000	00000	000	000000000	0

IDENTIFICATION STRATEGY (CONT')

Figure 2: Control states



= 990

USIONS

IDENTIFICATION STRATEGY: TRIPLE DIFFERENCES

- Whites as controls
- ► States with more than 10% of African American in 1990 as controls

-1

INTRODUCTION	Empirical strategy	Results	CHANNELS	Conclusions
000000	00000	000	000000000	0

IDENTIFICATION STRATEGY: TRIPLE DIFFERENCES

- Whites as controls
- ► States with more than 10% of African American in 1990 as controls

School outcome_{i,s,t,m} = β_1 (**Black**_m × **Virginia**_s × **Post**_t) + β_2 (Black_m × Virginia_s) + β_3 (Black_m × Post_t) + β_4 (Virginia_s × Post_t) + β_5 Black_m + β_6 Virginia_s + β_7 Post_t + $\beta_8 X_{i,s,t,m}$

 $X_{i,s,t,m}$ = Education of parents; family composition; age; gender; month

・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・

INTRODUCTION	Empirical strategy	Results	CHANNELS	CONCLUSIONS
000000	00000	000	000000000	0

IDENTIFICATION STRATEGY: TRIPLE DIFFERENCES

- Whites as controls
- ► States with more than 10% of African American in 1990 as controls

School outcome_{i,s,t,m} = β_1 (**Black**_m × **Virginia**_s × **Post**_t) + β_2 (Black_m × Virginia_s) + β_3 (Black_m × Post_t) + β_4 (Virginia_s × Post_t) + β_5 Black_m + β_6 Virginia_s + β_7 Post_t + $\beta_8 X_{i,s,t,m}$

 $X_{i,s,t,m}$ = Education of parents; family composition; age; gender; month

• We add State and Year dummies (specific to AA) and time trends.

シック 正同 《日》《日》《日》 《四》

INTRODUCTION	Empirical strategy	RESULTS	CHANNELS	CONCLUSIONS
000000	00000	000	000000000	0

ENDOGENEITY ISSUE?

It might be that Douglas Wilder was elected in Virginia because Virginia has different characteristics

- Parallel pre-trends
- Control for race-state specific trend
- Placebo test before treatment

ヨトィヨト

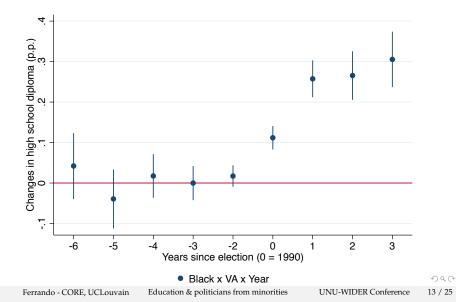
= = 990

Introd 00000		Empirical strategy 20000	Result ●○○	5	CHANNELS 00000000		Conclu 0	SIONS
_	Table 1: Gov	ernor from min	ority and	l high sc	hool dip	oloma. I	DDD.	
			(1)	(2)	(3)	(4)	(5)	
_	Black x VA x Pos	t	0.173***	0.178***	0.175***	0.156**	0.165***	
			(0.037)	(0.037)	(0.037)	(0.074)	(0.032)	
	Black x VA		-0.087***					
			(0.016)					
	Black x Post		-0.013					
			(0.013)					
	VA x Post		-0.030	-0.032				
			(0.020)	(0.021)				
	Black		-0.102***	-0.006	-0.003	0.044	0.029	
			(0.009)	(0.028)	(0.028)	(0.046)	(0.027)	
	VA		0.003					
			(0.015)					
	Post		-0.027***					
			(0.008)					
_	State dummies		No	Yes	No	No	No	
	Year dummies		No	Yes	No	No	No	
	Black-state & bla	ck-year dummies	No	Yes	Yes	Yes	Yes	
	State-year dumm	ies	No	No	Yes	Yes	Yes	
	Time trends		No	No	No	Yes	No	
	Extra controls		No	No	No	No	Yes	
_	Observations		251213	251213	251213	251213	222593	
	R ²		0.142	0.149	0.151 - 🗇	0.152	=0,209	500

Ferrando - CORE, UCLouvain Education & politicians from minorities

INTRODUCTION	Empirical strategy	RESULTS	CHANNELS	Conclusions
000000	00000	000	000000000	0

Figure 3: Effect on high school diploma year by year. DDD.



INTRODUCTION	Empirical strategy	RESULTS	CHANNELS	CONCLUSIONS
000000	00000	000	000000000	0

ADDITIONAL RESULTS AND ROBUSTNESS CHECKS:

- Heterogeneity test
 - Larger increase for boys. Results
- Lasting of effects Results
 - effect seems to last (significant but smaller for period 1994-2000)
- Alternative dataset: Census data of 2000.
 - results have same significance but smaller Results
- Permutation test: placebo treatment in each control state
 - no effect of similar magnitude in other states
- ► Labor market outcomes (wages and unemployment) Results
 - ► no significant differences for reference group

Introduction	Empirical strategy	Results	Channels	Conclusions
000000	00000	000	•00000000	0

ASPIRATIONS:

"People want to touch him, to say, 'He's been to my school,'... or 'my father works for him.' They identify with the governor in a way that many people at my level do not," Tuby G. Martin, Secretary of Administration.

b 4 3

ELE SOR

Introduction 000000	Empirical strategy 00000	Results 000	CHANNELS O O O O O O O O O O O O O O O O O O O	Conclusions 0

ASPIRATIONS:

Freshmen Survey

- ► 1st year of college students
- ▶ 1985-1993
- Questions: "Rate yourself on each of the following traits as compared with the average person your age"
 - Academic ability
 - Drive to achieve
- DDD strategy
- ► Controls = age, gender, parental education, high school GPA

シック 正向 《日》《日》《日》 《四》

INTRODUCTION	Empirical strategy	RESULTS	CHANNELS	CONCLUSIONS
000000	00000	000	00000000	0

Table 2: Effect on aspirations. DDD. 1st year college. Ordered logit.

	(1)	(2)	(3)	(4)	(5)
Academic ability					
Black x VA x Post	0.373***	0.314***	0.220*	0.303***	0.175*
	(0.089)	(0.056)	(0.122)	(0.066)	(0.106)
Observations	945290	945290	945290	945290	945290
Drive to achieve					
Black x VA x Post	0.146*	0.117*	0.218*	0.092	0.169
	(0.084)	(0.066)	(0.118)	(0.069)	(0.120)
Observations	944247	944247	944247	944247	944247
Controls	Yes	Yes	Yes	Yes	Yes
Year dummies	No	Yes	Yes	No	No
State dummies	No	Yes	Yes	No	No
Black-state dummies	No	Yes	Yes	Yes	Yes
Black-year dummies	No	Yes	Yes	Yes	Yes
Time trends	No	No	Yes	No	Yes
State-year FE	No	No	No	Yes	Yes

Source: Freshmen survey. 1985-1993.

Ferrando - CORE, UCLouvain Education & politicians from minorities

1 **UNU-WIDER** Conference

4 -

Placebo SQA 17 / 25

-

INTRODUCTION	Empirical strategy	Results	CHANNELS	CONCLUSIONS
000000	00000	000	000000000	0

POLICIES:

Policies?

- School funding reform in 1989
- ► Increase in compulsory school attendance age 07/1990

< □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > <

= = ~ ~ ~

Introduction	Empirical strategy	Results	Channels	Conclusions
000000	00000	000	00 00 00000	0

POLICIES:

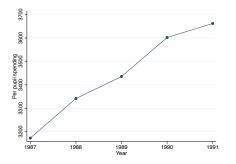
School funding reform in 1989

- An equation determines the money per pupil in each school district/county
- in Virginia in 1989: reform of the equation to have a more equal distribution of funds across districts
- ► Potential impact on the educational level of AA
 - If increase in per pupil spendings in Virginia and $\frac{\delta e_b}{\delta s} > \frac{\delta e_w}{\delta s}$
 - If increase in per pupil spendings in districts where there are more AA

シック 正同 《日》《日》《日》 《四》

INTRODUCTION	Empirical strategy	RESULTS	CHANNELS	CONCLUSIONS
000000	00000	000	000000000	0

▶ increase in per pupil spendings in Virginia after 1989?

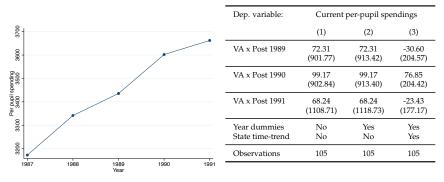


UNU-WIDER Conference 20 / 25

SQA

INTRODUCTION	Empirical strategy	RESULTS	CHANNELS	CONCLUSIONS
000000	00000	000	000000000	0

increase in per pupil spendings in Virginia after 1989?



Source: Census of governments.

ъ UNU-WIDER Conference 20 / 25

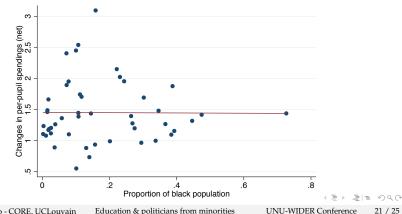
SQA -

-



Increase in per pupil spendings in districts where there are more blacks?

> Figure 4: Net increase in per-pupil spending between 1987 and 1992



Ferrando - CORE, UCLouvain Education & politicians from minorities UNU-WIDER Conference



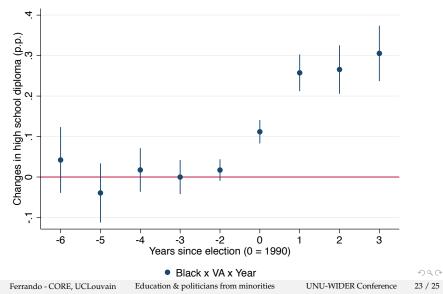
POLICIES (CONT'):

- Increase in compulsory school attendance age from 17 to 18 in 1990.
 - Reform concerns 17 years old (and younger) individuals from July 1990 onwards.
 - ► If there is an effect of this reform on high school graduation rates, we should observe it for the 18-19 years individuals after 1991.
 - The effect on 18-19 years old students begins in 1990.

シック 正同 《日》《日》《日》 《四》

INTRODUCTION	Empirical strategy	Results	CHANNELS	CONCLUSIONS
000000	00000	000	0000000000	0

Figure 5: Effect on high school diploma year by year. DDD.



23 / 25

INTRODUCTION	Empirical strategy	RESULTS	CHANNELS	CONCLUSIONS
000000	00000	000	000000000	0

Table 3: Dropout for 16-17. DDD

Dep. variable:	Dropout				
	(1)	(2)	(3)	(4))	
Age: 16-17					
Black x VA x Post	-0.005 (0.012)	-0.006 (0.009)	0.025* (0.014)	-0.003 (0.010)	
Controls	Yes	Yes	Yes	Yes	
Black-state dummies	No	Yes	Yes	Yes	
Black-year dummies	No	Yes	Yes	Yes	
State-year dummies	No	Yes	Yes	Yes	
Time trends	No	No	Yes	No	
Extra controls	No	No	No	Yes	
Observations	199017	199017	199017	195519	

Introduction 000000	Empirical strategy 00000	Results 000	Channels 000000000	Conclusions

CONCLUSIONS:

- ► We find a sizeable change in high school diploma among blacks when Douglas Wilder is in power.
- Effect cannot be fully explained by the main changes in educational policies.
- We find evidence that the effect could have been mediated by an increase on aspirations among African American students (evidence of role model).

シック 正向 《日》《日》《日》 《四》

Thanks for your attention!

UNU-WIDER Conference 0 / 6

Dep. variable:	High school diploma					
	(1)	(2)	(3)	(4)	(5)	
Sex: male						
Black x VA x Post	0.199***	0.206***	0.202***	0.184	0.209***	
	(0.067)	(0.067)	(0.068)	(0.123)	(0.059)	
Observations	122301	122301	122301	122301	113487	
Sex: female						
Black x VA x Post	0.130***	0.136***	0.132***	0.104**	0.097***	
	(0.031)	(0.035)	(0.036)	(0.044)	(0.035)	
Observations	128912	128912	128912	128912	109106	
Controls	Yes	Yes	Yes	Yes	Yes	
State dummies	No	Yes	No	No	No	
Year dummies	No	Yes	No	No	No	
Black-state dummies	No	Yes	Yes	Yes	Yes	
Black-year dummies	No	Yes	Yes	Yes	Yes	
State-year dummies	No	No	Yes	Yes	Yes	
Time trends	No	No	No	Yes	No	
Extra controls	No	No	No	No	Yes	
main					<	

Table 4: Heterogeneity of the effect. DDD.

Ferrando - CORE, UCLouvain Education & politicians from minorities

Back to

UNU-WIDER Conference 1 / 6

900

Table 5: Governor from minority and educational outcomes. Triple difference. From 1984 to 2000.

Dep. variable:	High school diploma				
	(1)	(2)	(3)	(4)	(5)
Black x VA x Post ₁₉₉₀₋₁₉₉₃	0.173***	0.178***	0.176***	0.210***	0.163***
	(0.038)	(0.038)	(0.038)	(0.058)	(0.033)
Black x VA x Post ₁₉₉₄₋₂₀₀₀	0.119***	0.124***	0.119***	0.192**	0.100***
	(0.028)	(0.027)	(0.026)	(0.075)	(0.026)
Controls	Yes	Yes	Yes	Yes	Yes
State dummies	No	Yes	No	No	No
Year dummies	No	Yes	No	No	No
Black-state dummies	No	Yes	Yes	Yes	Yes
Black-year dummies	No	Yes	Yes	Yes	Yes
State-year dummies	No	No	Yes	Yes	Yes
Time trends	No	No	No	Yes	No
Extra controls	No	No	No	No	Yes
Observations	375657	375657	375657	375657	335062
R^2	0.146	0.152	0.155	0.156	0.209
k to main					► < E > 2

Ferrando - CORE, UCLouvain Education

Education & politicians from minorities

UNU-WIDER Conference 2 / 6

Dep. variable:		High schoo	High school diploma		
	(1)	(2)	(3)	(4)	(5)
Black x VA x Post	0.021** (0.009)	0.023*** (0.009)	0.025*** (0.009)	0.011 (0.009)	0.025*** (0.009)
Observations	1024709	1024709	1024709	1024709	1024709
Controls	Yes	Yes	Yes	Yes	Yes
State dummies	No	Yes	No	No	No
Year dummies	No	Yes	No	No	No
Black-state dummies	No	Yes	Yes	Yes	Yes
Black-year dummies	No	Yes	Yes	Yes	Yes
State-year dummies	No	No	Yes	Yes	Yes
Time trends	No	No	No	Yes	No
Extra controls	No	No	No	No	Yes

Table 6: Robustness check. High school diploma. Census data. DDD.

Back to main

	(1)	(2)	(3)	(4)
Wages				
Black x VA x Post	-0.040	-0.036	-0.026	0.070
	(0.073)	(0.062)	(0.061)	(0.098)
Observations	110188	110188	110188	110188
Unemployment				
Black x VA x Post	0.001	-0.001	-0.001	-0.019**
	(0.007)	(0.006)	(0.006)	(0.009)
Observations	1340836	1340836	1340836	1340836
Controls	Yes	Yes	Yes	Yes
State dummies	No	Yes	No	No
Year dummies	No	Yes	No	No
Black-state dummies	No	Yes	Yes	Yes
Black-year dummies	No	Yes	Yes	Yes
State-year dummies	No	No	Yes	Yes
Time trends	No	No	No	Yes

Table 7: Labor market outcomes: DDD. 25-34 years old



Table 8: Placebo test on self-rated academic ability

	(1)	(2)	(3)	(4)	(5)
Black x VA x Post	-0.00760 (0.0382)	-0.00981 (0.0263)	-0.0525* (0.0286)	-0.00977 (0.0270)	-0.117*** (0.0293)
Year FE		Yes	Yes		
State FE		Yes	Yes		
Black*State FE		Yes	Yes	Yes	Yes
Black*Year FE		Yes	Yes	Yes	Yes
Black time-trend			Yes		Yes
State*Year FE				Yes	Yes
Observations R^2	512567 0.357	512567 0.362	512567 0.362	512567 0.363	512567 0.363

* p < 0.1, ** p < 0.05, *** p < 0.01.

Control variables: sex, parental education, high school GPA

Source: Freshmen survey. 1986-1993

Back to main

	(1)	(2)	(3)	(4)	(5)
Black x VA x Post	-0.00717 (0.0356)	-0.00512 (0.0226)	0.0343 (0.0402)	-0.00614 (0.0195)	0.00728 (0.0387)
Year FE		Yes	Yes		
State FE		Yes	Yes		
Black*State FE		Yes	Yes	Yes	Yes
Black*Year FE		Yes	Yes	Yes	Yes
Black time-trend			Yes		Yes
State*Year FE				Yes	Yes
Observations R^2	511920 0.105	511920 0.109	511920 0.109	511920 0.110	511920 0.110

Table 9: Placebo test on self-rated drive to achieve

* p < 0.1, ** p < 0.05, *** p < 0.01.

Control variables: sex, parental education, high school GPA *Source:* Freshmen survey. 1986-1993

Back to main