# TITLE:

subtitle

Ray Huang\* Brown University, Honors Thesis January 13, 2023

#### Abstract

Aspirational abstract goes here!

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## Introduction

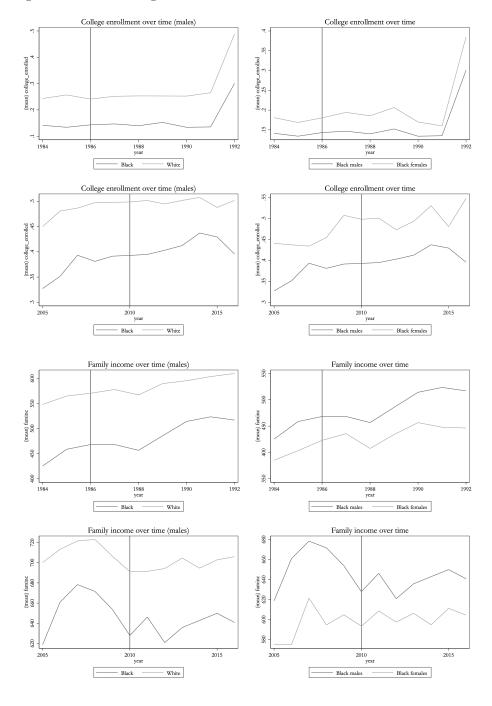
## Motivation and Background

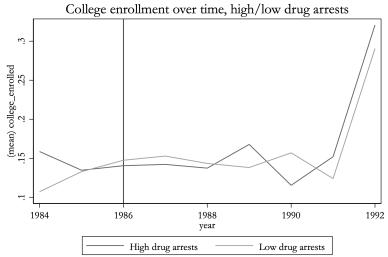
## **Data Description**

### Empirical/Econometric Methods, Hypotheses tested

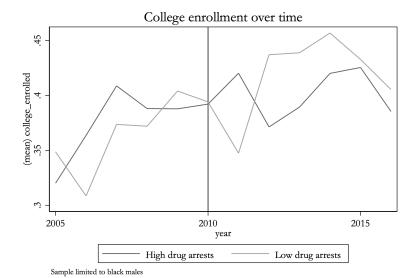
# Figures

Note: all figures are limited to ages 18-24 inclusive.

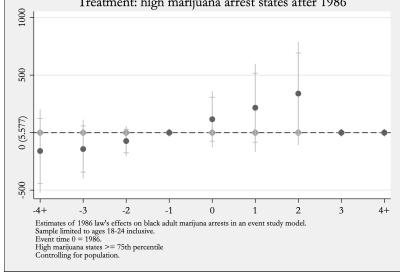


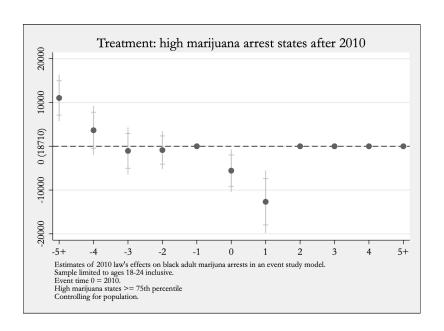


Sample limited to black males



Treatment: high marijuana arrest states after 1986





## Tables

Table 1: Summary Statistics CPS

	/1\	(0)	(2)	(4)
	(1)	(2)	(3)	(4)
	Pre-period 1986	Pre-period 1986	Pre-period 2010	Post-period 2010
Male	0.49	0.49	0.50	0.50
	(0.500)	(0.500)	(0.500)	(0.500)
Black	0.13	0.14	0.13	0.15
	(0.341)	(0.342)	(0.340)	(0.356)
HS Graduate	0.82	0.81	0.83	0.86
	(0.384)	(0.390)	(0.377)	(0.344)
Enrolled in college	0.24	0.29	0.50	0.55
	(0.428)	(0.453)	(0.500)	(0.498)
Enrolled in college (Black males)	0.02	0.03	0.06	0.07
,	(0.146)	(0.160)	(0.228)	(0.254)
Enrolled in college (Non-Black males)	0.22	0.26	0.45	0.48
,	(0.414)	(0.440)	(0.497)	(0.500)
Enrolled in 2-year coll.	0.00	0.01	0.05	0.05
v	(0)	(0.0856)	(0.215)	(0.228)
Enrolled in 4-year coll.	0.24	0.28	0.46	0.49
	(0.428)	(0.450)	(0.498)	(0.500)
Observations	43962	73286	94188	72859

SD in (). Sample limited to ages 18-24. Observations missing education data were dropped.

Table 2: UCR 1986 black adult arrests related to marijuana

	(1) AB
1	3.08
2	4.35
3	2.06
4	6.00
5	13.24
6	5.56
7	7.48
8	125.75
10	5.16
11	1.00
12	2.38
13	4.63
15	3.31
16	1.80
17	5.16
18	1.00
19	8.51
20	5.44
21	2.30
22	4.87
23	$5 \qquad 2.44$

Table 3: Britton Table 2

	(1)	(2)	(3)
after1986	.04427***	.04037***	0
	(.006001)	(.005414)	(.)
Black	1021***	06456***	07368***
	(.01272)	(.0105)	(.01246)
interaction	01133	01234	006629
	(.01378)	(.01137)	(.01187)
Constant	.2446***	-8.086***	-7.946***
	(.008332)	(.4056)	(.4216)
Observations	61403	61403	61403
Adjusted $\mathbb{R}^2$	0.009	0.120	0.146
$State\_yr\_FE$	$\mathbf{N}$	N	Y
Demographic_controls	N	Y	Y

Weights used. Males only. SEs clustered at state level. Still missing some demographic controls.

Table 4: Britton Table 2, control experiment

	(1)	(2)	(3)
after1986	.05002***	.02519***	0
	(.00464)	(.004266)	(.)
Black	1767***	08212***	07705***
	(.01336)	(.01162)	(.01296)
interaction	.0001738	006754	003525
	(.01274)	(.0105)	(.01088)
Constant	.4319***	-1.09***	-1.053***
	(.01498)	(.1826)	(.1777)
Observations	126294	126294	126294
Adjusted $R^2$	0.013	0.119	0.135
$State\_yr\_FE$	N	N	Y
Demographic_controls	N	Y	Y

Standard errors in parentheses

Weights used. Males only. SEs clustered at state level. AGES 35-50.

<sup>\*</sup> p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01

<sup>\*</sup> p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01

Table 5: Britton Table 3

	(1)	(2)	(3)
after1986	.03936***	.0282**	0
	(.01306)	(.01233)	(.)
male	02641**	03954***	04253***
	(.01192)	(.01108)	(.01135)
sex_interaction	006419	004532	002536
	(.01575)	(.0159)	(.0165)
Constant	.1689***	-4.677***	-4.53***
	(.0097)	(.4739)	(.5066)
Observations	14991	14991	14991
Adjusted $R^2$	0.003	0.103	0.126
$State\_yr\_FE$	N	N	Y
$Demographic\_controls$	N	Y	Y

Weights used. SEs clustered at state level. Still missing some demographic controls.

Table 6: Britton Table 3, control experiment

	(1)	(2)	(3)
after1986	.06617***	.03427***	0
	(.00926)	(.009134)	(.)
male	.02698**	01173	01283
maie			
	(.0103)	(.01189)	(.0114)
sex interaction	01597	007721	007772
	(.0116)	(.01212)	(.01238)
Constant	.2282***	1.063***	1.133***
Companie	(.0144)	(.3845)	(.3931)
Observations	24954	24954	24954
Adjusted $R^2$	0.004	0.114	0.133
$State\_yr\_FE$	N	N	Y
Demographic_controls	N	Y	$\mathbf{Y}$

Standard errors in parentheses

Weights used. SEs clustered at state level. AGES 35-50.

<sup>\*</sup> p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01

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Table 7: DiD: Fair Sentencing Act, blacks vs whites

	(1)	(2)	(3)
after2010	.03072***	.02859***	0
	(.007178)	(.007088)	(.)
Black	1172***	1061***	1098***
	(.01419)	(.01206)	(.01426)
interaction	.04387***	.03536***	.03728***
	(.01025)	(.01012)	(.01105)
Constant	.4786***	-9.838***	-9.764***
	(.008984)	(.254)	(.2498)
Observations	114090	114090	114090
Adjusted $\mathbb{R}^2$	0.006	0.085	0.096
$State\_yr\_FE$	$\mathbf{N}$	N	Y
Demographic_controls	N	Y	Y

Weights used. Males only. SEs clustered at state level. Still missing some demographic controls.

Table 8: DiD: Fair Sentencing Act, blacks vs whites, control experiment

	(1)	(2)	(3)
after2010	.03688***	.03531***	0
	(.005766)	(.005671)	(.)
Black	09199***	04809***	04217***
	(.01557)	(.01238)	(.01285)
interaction	.02353**	.01417	.009093
	(.01075)	(.009078)	(.009292)
Constant	.5669***	.2558**	.2816**
	(.007974)	(.1172)	(.1181)
Observations	285600	285600	285600
Adjusted $R^2$	0.004	0.087	0.095
$State\_yr\_FE$	N	N	Y
Demographic_controls	N	Y	Y

Standard errors in parentheses

Weights used. Males only. SEs clustered at state level. AGES 35--50

<sup>\*</sup> p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01

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Table 9: DiD Fair Sentencing Act, black males vs females

	(1)	(2)	(3)
after2010	.05706***	.03615***	0
	(.01186)	(.01219)	(.)
male	1006***	1106***	1129***
	(.01081)	(.01056)	(.01082)
sex_interaction	.01753	.02144	.02335
	(.01408)	(.01505)	(.01479)
Constant	.462***	-8.207***	-8.022***
	(.01192)	(.5089)	(.5651)
Observations	26198	26198	26198
Adjusted $R^2$	0.012	0.103	0.111
$State\_yr\_FE$	N	N	Y
Demographic_controls	N	Y	Y

Weights used. SEs clustered at state level. Still missing some demographic controls.

Table 10: DiD Fair Sentencing Act, black males vs females, control experiment

	(1)	(2)	(3)
after2010	.09404***	.07418***	0
	(.0117)	(.009614)	(.)
male	06253***	08723***	08835***
	(.005736)	(.006097)	(.005948)
$sex\_interaction$	03364***	02353***	02367***
	(.008531)	(.008622)	(.008802)
Constant	.5375***	3061	2344
	(.01185)	(.2063)	(.2227)
Observations	59353	59353	59353
Adjusted $R^2$	0.013	0.102	0.111
$State\_yr\_FE$	N	N	Y
$\underline{\hspace{1.5cm}} Demographic\underline{\hspace{1.5cm}} controls$	N	Y	Y

Standard errors in parentheses

Weights used. SEs clustered at state level. AGES 35-50  $\,$ 

<sup>\*</sup> p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01

<sup>\*</sup> p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01

Table 11: DiD 1986, high vs low drug arrest states

	(1)	(2)	(3)
after1986	.05844***	.05228***	0
	(.01806)	(.01761)	(.)
ab	.0007097***	.0004725**	0
	(.0002166)	(.0002309)	(.)
ab_post_interact	0006435***	0004241*	0
	(.0002201)	(.0002247)	(.)
Constant	.1274***	-3.879***	-4.142***
	(.01413)	(.945)	(.9937)
Observations	2529	2529	2529
Adjusted $R^2$	0.003	0.075	0.096
$State\_yr\_FE$	N	N	Y
$Demographic\_controls$	N	Y	Y

Weights used. SEs clustered at state level. Still missing some demographic controls.

Table 12: DDD 1986

	(1)
after1986	0
	(.)
Black	06174***
	(.02004)
1.1 1	0
high_drug	0
	(.)
post_black_interact	.01296
post_black_interact	(.03946)
	(.03340)
high_drug_black_interact	03643
9	(.0222)
	(.0222)
high_drug_post_interact	0
0 = 0=1 =	(.)
	( )
triple_interact	02596
	(.04182)
	, ,
Constant	-8.663***
	(.4515)
Observations	28152
Adjusted $R^2$	0.141
$State\_yr\_FE$	Y
$Demographic\_controls$	Y

Standard errors in parentheses

Weights used. SEs clustered at state level. Still missing some demographic controls.

<sup>\*</sup> p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01

<sup>\*</sup> p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01

### References

Britton, Tolani. 2022. "Does locked up mean locked out? The effects of the anti-drug abuse act of 1986 on black male students' college enrollment." *Journal of Economics, Race, and Policy* 5 (1):54–71.

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