Are Emily and Greg More Employable than Lakisha and Jamal? Bertrand and Mullainathan

Persistence racial difference in socioeconomic outcomes

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- Large difference in outcomes between similarly defined blacks and whites
- Blacks on average have lower
 - Wages
 - Earnings
 - Employment rates
 - Wealth
 - Education, etc.

Median Annual Earnings, 2013 Full time/full year workers

	Males	Females
Whites	\$51,296	\$39,051
Blacks	\$40,000	\$33,000
Ratio:	0.780	0.845
Black/white		

Median Hourly Wage, 2013 Full time/full year workers

	Males	Females
Whites	\$23.08	\$18.26
Blacks	\$17.31	\$15.65
Ratio: Black/white	0.750	0.857

Aug	gust 201	.4
	Male	Female
Whites	5.8	5.9
Blacks	13.3	11.5
Ratio:	2.29	1.94
Black/white		









- Differences in skill level. Whites on average tend to have
 - More education
 - Higher job tenure
- Differences in types of jobs. Whites and blacks may be segregated in jobs that differ by
 - Occupation
 - Industry
 - Low vs. high wage sector
 - Low vs. high wage areas
 - Union status

- Pre-market conditions. Blacks on average
 - Attend poorer quality schools
 - Have parents with fewer years of education
 - Have home lives (e.g., live with single mother, etc) that predict lower educational outcomes and lower human capital accumulation
- Discrmination

How much of the gap is explained by observed characteristics?

- Construct sample of workers aged 18-64
- March Current Population Survey
 - Asks for data on earnings in previous year
 - Use years 2006-2009
- Keep people w/ 40+ weeks of work, 30+ hours/week
- Dependent variable ln(hourly wage)

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- 4 race groups
 - White non-Hispanic
 - Black non-Hispanic
 - Other race, non-Hispanic
 - Hispanic
- Use whites as reference group
- Add more variables and see what happens to coefficients on race dummy variables

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	Black, non- Hisp.	Other, non-Hisp.	Hispanic
No controls	-0.261	-0.055	-0.411
Add age /educ.	-0.175	-0.086	-0.141
Add union	-0.174	-0.086	-0.141
Add industry	-0.151	-0.085	-0.117
Add occupation	-0.089	-0.052	-0.067

Coefficient on race variables Females, 2006-2009

	Black, non- Hisp.	Other, non-Hisp.	Hispanic
No controls	-0.110	-0.002	-0.255
Add age /educ.	-0.041	-0.015	-0.067
Add union	-0.041	-0.014	-0.067
Add industry	-0.043	-0.023	-0.054
Add occupation	-0.003	-0.001	-0.019
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Is the residual difference discrimination?

- Many interpret this way
- Economists are uneasy why might this be an omitted variables bias?
- Has lead to some experimental ways to test for discrimination

Audit Studies

- Place comparable minority and white subjects in actual settings and observe outcome
- Example: bank lending
- Has benefits and shortcomings

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A real world experiment: orchestras

- Auditions are use to assign seats
- Used to be that judges knew identify of musicians
- Now auditions are blind performed behind a a screen
- Women and Asians had a higher success rate after movement to blind auditions – indicating these groups were discriminated against

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This study

- Respond to help-wanted adds in Boston and Chicago papers with fictitious resumes
- Measure the number of callbacks each resume received
- Resumes are similar except names are randomly assigned

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- Authors exploit the fact that some names are exclusively used by African Americans
- The name is a signal of race

Girl names "Whitest" • "Blackest" ٠ • 1. Molly • 1. Imani • 2. Ebony • 2. Amy 3. Claire • 3. Shanice • 4. Emily • 4. Ailiya ٠ • 5. Katie • 5. Precious • 6. Madeline • 6. Nia • 7. Deja • 7. Katelyn 19

Boy names			
• "Whitest"	• "Blackest"		
• 1. Jake	• 1. DeShawn		
• 2. Connor	• 2. DeAndre		
• 3. Tanner	• 3. Marquis		
• 4. Wyatt	• 4. Darnell		
• 5. Cody	• 5. Terrell		
• 6. Dustin	• 6. Malik		
• 7 Luke	• 7 Trevon		



- Pick distinctly AA names using Massachusetts birth records.
- Assign resumes to race/sex/city/resume quality cell (16 cells)
- Set up generic vmail and email accounts for each 'cell'

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Responding to adds

- Responded to adds placed 7/1/2001 to 1/31/2002
- 4 resumes were sent
 - One high and low quality for each AA and white name

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• Measure email and vmail contacts for interviews

	Percent callback for White names	Percent callback for African-American names	Ratio	Percent difference (p-value)
Sample:	5 1 5 A 5 A			1114.000
All sent resumes	9.65	6.45	1.50	3.20 (0.0000)
hicago	8.06	5.40	1.49	2.66 (0.0057)
Boston	11.63	7.76	1.50	4.05
females	9.89	6.63 [1.886]	1.49	3.26 (0.0003)
emales in administrative jobs	10.46	6.55	1.60	3.91 (0.0003)
females in sales jobs	8.37	6.83	1.22	1.54 (0.3523)
Males	8.87	5.83	1.52	3.04 (0.0513)



* replicate * results fo reg callback Source	results in li r full sample white_name SS	ne 1, df	tabl	1 MS		Number of obs	= 4870
Model Residual Total	1.24928131 359.197536 360.446817	1 4868 4869	1.249 .0737 .0740	28131 87497 28921	(F(1 4868) Frob > F R-squared Adi R-squared Root MSE	$ \begin{array}{rcl} & = & 16.93 \\ & = & 0.0000 \\ & = & 0.0035 \\ & = & 0.0032 \\ & = & .27164 \\ \end{array} $
callback	Coef.	Std.	Err.	t	P> t	[95% Conf.	Interval]
white_name _cons	.0320329	.007	785 048	4.11 11.71	0.000 0.000	.0167708 .0536845	.0472949 .0752683
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Model Residual	.259684174 76.6113123	1 .2596 1122 .0682	84174 81027	6	F(1, 1122) <u>Prob > F</u> R-squared	= 3.8 = 0.051 = 0.003
Total	76.8709964	1123 .0684	51466		Adj R-squared Root MSE	= 0.002 = .2613
callback	Coef.	Std. Err.	t	P> t	[95% Conf.	Interval
white_name _cons	.0304079 .0582878	.0155924 .0111523	1.95 5.23	0.051 0.000	0001857 .0364061	.061001 .080169

What would Levitt/Dubner argue is the problem with the experimental design?	S
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1008		THE AMERICAN EC	ONOMIC REVIE	W	SEPTEMBER 2004
	TABLE 8C	ALLBACK RATE AND MOT	THER'S EDUCATIO		
Viene	White female	Mather advection	Name	African-American	female Mother advertion
Name	Percent canback	Mother education	Name	Fercent canoack	Mother education
Emily	7.9	96.6	Aisha	2.2	77.2
Anne	8.3	93.1	Keisha	3.8	68.8
Jill	8.4	92.3	Tamika	5.5	61.5
Allison	9.5	95.7	Lakisha	5.5	55.6
Laurie	9.7	93.4	Tanisha	5.8	64.0
Sarah	9.8	97.9	Latoya	8.4	55.5
Meredith	10.2	81.8	Kenya	8.7	70.2
Carrie	13.1	80.7	Latonya	9.1	31.3
Kristen	13.1	93.4	Ebony	9.6	65.6
Average		91.7	Average		61.0
Overall		83.9	Overall		70.2
Correlation	-0.318	(p = 0.404)	Correlation	-0.383	(p = 0.309)



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