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

Here are some aver	age stai	rting	
salaries for the cla	ss of 20	06:	
MAJOR	VS	. 2005	
Chemical engineering	\$55,900	+4.2%	
Electrical engineering	\$52,899	+3.5%	
Mechanical engineering	\$50,672	-0.3%	
Computer science	\$50,046	-2.0%	
Accounting	\$45,723	+6.2%	
Economics/Finance	\$45,191	+11.0%	
Civil engineering	\$44,999	+4.3%	
Business administration	\$39,850	+3.9%	
Marketing	\$36,260	-3.4%	
Liberal arts majors	\$30,828	+6.1%	

Persistence racial difference in socioeconomic outcomes

- 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, 2007 Full time/full year workers

	Males	Females
Whites	\$48,000	\$33,000
Blacks	\$35,000	\$30,000
Ratio:	0.729	0.909
Black/white		

	Males	Females	
Whites	\$20.46	\$15.71	
Blacks	\$15.73	\$13.94	
Ratio:	0.769	0.887	
Ratio: Black/white	0.769	0.88	

Dece	mber 20	007	
	Males	Females	
Whites	3.9%	4.0%	
Blacks	8.4%	7.0%	
Ratio:	2.15	1.75	
Black/white			











What could cause the remaining gap?

- Unmeasured characteristics such as school quality?
- Many interpret the 'residual' wage gap as "discrimination"
- What is the shortcoming of the residual analysis?

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Types of discrimination

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- Taste based
- Statistical discrimination

Audit Studies

- Place comparable minority and white subjects in actual settings and observe outcome
- Example: bank lending
 - you send a black and white couple into a bank -
 - Give them identical characteristics
 - Have them apply for a mortgage
 - Observe whether they receive the loan

- Benefits
- Shortcoming

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

What makes the study go

- Tremendous overlap in names given to children of different races
- Most popular boy name for B and W families in 1990?
- But some names are almost exclusively used by one race

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



Racial Concentration of Some Names

- Names where >98% of the children were white
 - Connor, Cody, Jake, Molly, Emily, Abigail, Caitlin
 - Most extreme is Molly. 2328 girls named Molly, 99.91% were white

White female		
Name	L(W)/L(B)	Perception White
Allison	∞	0.926
Anne	00	0.962
Carrie	00	0.923
Emily	∞	0.925
Jill	~	0.889
Laurie	00	0.963
Kristen	∞	0.963
Meredith	∞	0.926
Sarah	00	0.852

Name	L(B)/L(W)	Perception B
Aisha	209	0.97
Ebony	00	0.9
Keisha	116	0.93
Kenya	00	0.967
Lakisha	00	0.967
Latonya	00	1
Latoya	00	1
Tamika	284	1
Tanisha	00	1

White male		
Name	L(W)/L(B)	Perception White
Brad	~	1
Brendan	~	0.667
Geoffrey	~	0.731
Greg	~	1
Brett	~	0.923
Jay	∞	0.926
Matthew	∞	0.888
Neil	∞	0.654
Todd	∞	0.926

African-An	nerican male	
Name	L(B)/L(W)	Perception Black
Darnell	∞	0.967
Hakim		0.933
Jamal	257	0.967
Jermaine	90.5	1
Kareem	∞	0.967
Leroy	44.5	0.933
Rasheed	∞	0.931
Tremayne	∞	0.897
Tyrone	62.5	0.900

Constructing a bank of resumes

- Pulled samples from web pages
- · Restricted to
 - people from Boston or Chicago
 - People applying for 4 positions
 - Sales
 - · Administration support
 - Clerical services
 - Customer service
- Change the name and contact information on the resume

- 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'



	Arrican-American names	Ratio	(p-value)
9.65	6.45	1.50	3.20
[2,435]	[2,435]		(0.0000)
8.06	5.40	1.49	2.66
[1,352]	[1,352]		(0.0057)
11.63	7.76	1.50	4.05
[1.083]	[1.083]		(0.0023)
9.89	6.63	1.49	3.26
[1.860]	[1.886]		(0.0003)
10.46	6.55	1.60	3.91
[1.358]	[1.359]		(0.0003)
8.37	6.83	1.22	1.54
[502]	[527]		(0.3523)
8.87	5.83	1.52	3.04
[575]	[549]		(0.0513)
	9.65 [2,435] 8.06 [1,352] 11.63 [1,083] 9.89 [1,860] 10.46 [1,358] 8.37 [502] 8.87 [575]	9.05 6.43 [2.435] [2.435] 8.06 5.40 [1.352] [1.352] 11.63 7.76 [1.083] [1.083] 9.89 6.63 [1.460] [1.866] 10.46 6.55 [1.358] [1.359] 8.37 6.83 7.75 [549]	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

TABLE 1-MEAN CALLBACK RATES BY RACIAL SOUNDINGNESS OF NAMES





1008		THE AMERICAN EC	ONOMIC REVIE	.W	SEPTEMBER 2004
	TABLE 8-C	ALLBACK RATE AND MOT	THER'S EDUCATION BY FIRST NAME		
Name	Percent callback	Mother education	Name	Percent callback	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)



Weaknesses of study

- Outcome is limited
 - Would prefer more meaningful economic outcome that call-back
 - Whether received a job? Starting wage?
- Paper does not identify racial discrimination but rather, discrimination against AA names

- Measuring discrimination in a limited channel of the job search process
 - Informal networks very important
 - If Blacks use informal networks to overcome discrimination, then results overstate discrimination
 - If Blacks do not have access to social networks, could understate discrimination