# Redistributional Inequalities across U.S. Tax and Transfer Programs

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### Background

- Recent scholarship has examined factors shaping disparities in U.S. poverty rates, advancing structural explanations for the racial poverty gap (Iceland, 2019; Baker et al, 2022)
- Related research, not focused on poverty rates, demonstrates changes in U.S. social welfare policy fostered redistributional disparities amongst the working and non-working poor (Wimer et al., 2020, Desmond et al., 2022)
- Synthesizing these literatures, we ask how the U.S. tax and transfer system's institutional features tiered support, categorical eligibility structures and decentralized policy design shape redistributional inequalities

# Typology of Redistributive Mechanisms

	Taxes	Transfers
Federal (Centralized)	Federal Income Tax and Contributions	Federal Transfers
State-Managed (Decentralized)	State Income Tax	State Transfers

#### Contributions

- We explore how these institutional features operationalized through federal and state redistributive mechanisms influence income inequalities
- Building on prior research documenting the impacts of safety net decentralization on social provision (Bruch, Meyers, and Gornick 2018) and poverty reduction (Bruch, van der Naald, and Gornick forthcoming)
- Specifically, we explore how these features shape redistributional inequalities between Black and White households

### Research Questions

- How do the average contributions of each of the four redistributive mechanisms vary across household types?
- Who benefits most and who benefits least from each mechanism, and with what consequences for their disposable household income?
- What are the distributional consequences of the U.S. safety net's institutional features?
- How do these institutional features shape racial inequalities?

# Key Findings

- Depending on composition, households are differently categorized into income support
  - Households with children receive larger portions of disposable income from state transfer programs
  - Households with retirement-eligible persons receive larger portions from federal transfers
- Black and White households receive unequal levels of support from federal and state programs
  - White households receive larger sums of federal transfers
  - Black households receive larger sums of state transfers
- Black and White households in the same deciles and household types receive differential levels of support

#### Data

- Current Population Survey's Annual Social and Economic Supplement (CPS ASEC), Pooled 2013-2017
- Household Types Working-age (18-61)
  - With and without Children
  - With and without Retirement Eligible Persons (62+)
- Income Definitions:
  - Market Income (Pre-Tax and Transfer)
  - Disposable Income (Post-Tax and Transfer)
- Redistributive Mechanisms
  - Federal and State Taxes and Transfers
  - FICA Taxes

Market Income					
wage and salary	rent, royalties, estate, and trust income				
self-employment earnings	interest				
farm income	dividends				
private retirement	friend/family financial assistance				
private survivor pensions	alimony				
private disability pensions	other income not otherwise classified				
annuities					
Federal Transfers	State Transfers				
Old Age, Survivors, and Disability Insurance Program (OASDI) pension, survivors & disability benefits veteran's benefits	Temporary Assistance for Needy Families (TANF) state-specific cash assistance (General Assistance) Unemployment Insurance Worker's Compensation Supplemental Security Income child support Supplemental Nutrition Assistance Program (SNAP) school lunch subsidy				
Federal Taxes† (and FICA)*	housing subsidy and energy subsidy  State Taxes†				
Income tax liability	Income tax payments				
Earned income tax credit	State earned income tax credit				
Child credit	Property credit				
Child care tax credit	Other state tax credits				

# Analysis

#### • Descriptive

- Income Averages Bottom Two Income Deciles
- Comparing Black and White Households within Market Income Deciles ("Apples-to-Apples")
- TANF, SNAP, and SSI TRIM-adjusted for Underreporting (Parolin 2019)

#### Decomposition

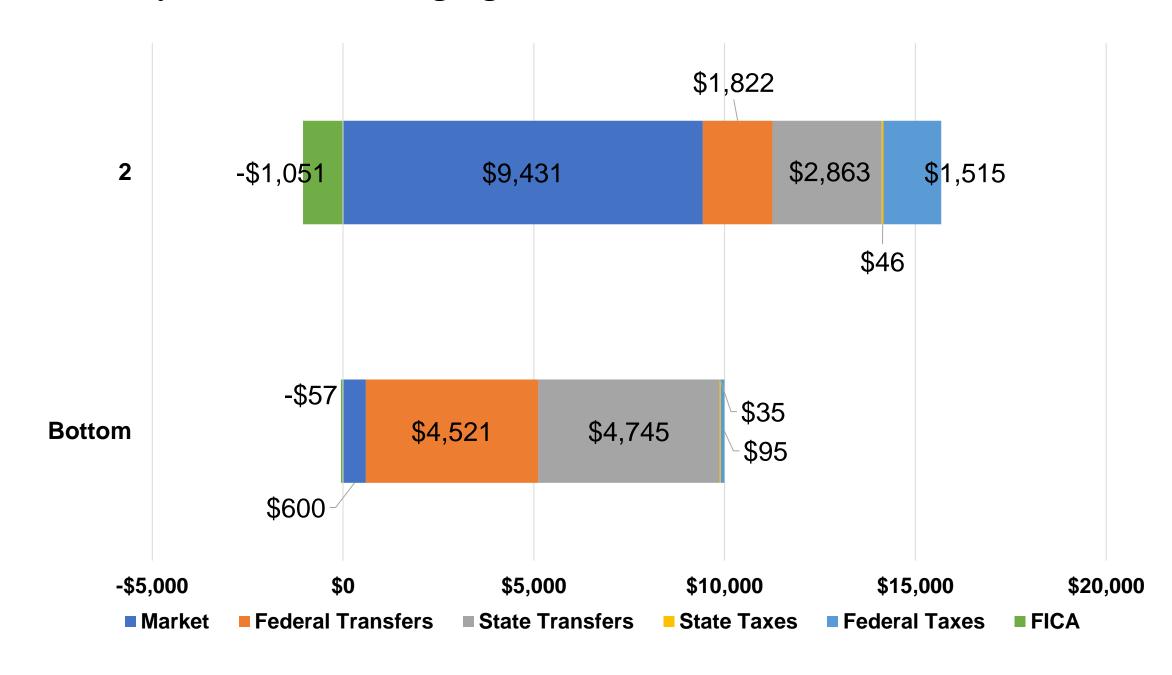
- Kitagawa-Blinder-Oaxaca Analysis (Jann 2008)
- Decomposing Racial Gaps in Mechanism Values by Decile Group and Household Type

#### Frequency of All Working-Age Households by Type, 2013-2017

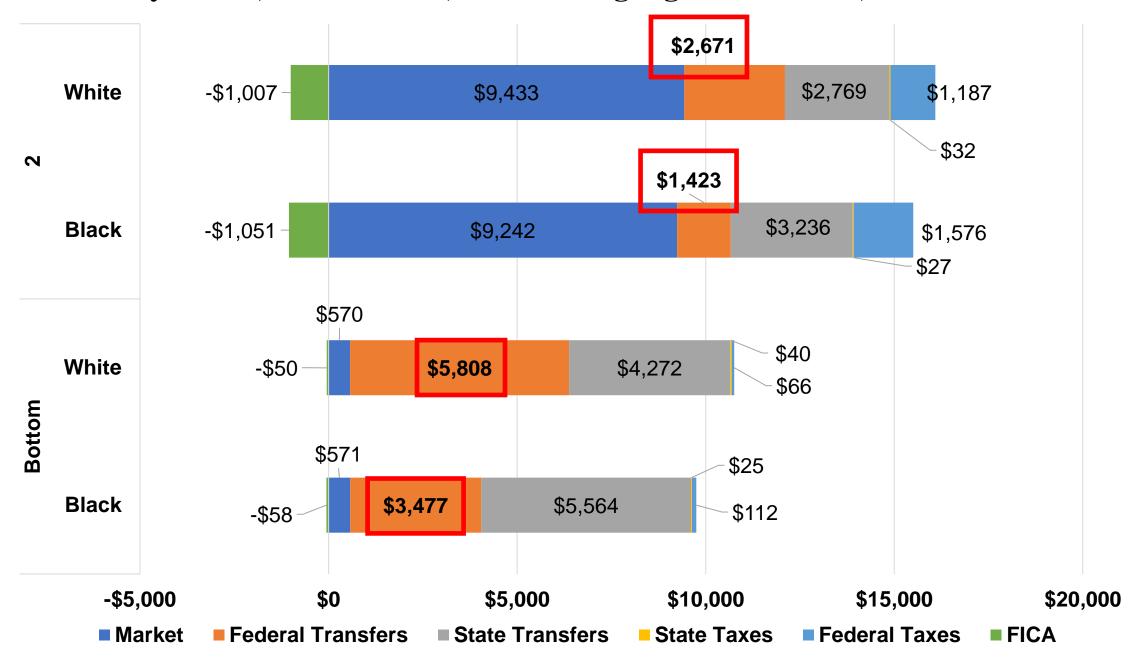
	No Children	Children	Total
No Retirement-	131,944 (51.9%)	99,849 (39.3%)	231,793
Eligible Members			(91.2%)
Retirement-Eligible	17,652 (6.9%)	4,872 (1.9%)	22,542
Members			(8.8%)
Total	149,596 (58.8%)	104,721 (41.2%)	254,317

*Note*: Households contain retirement-eligible persons if one or more persons in the household are 62 years and older, and thus eligible for federal Social Security retirement benefits, so long as at least the householder, their spouse, or their partner are younger than age 62. Households where the householder, their spouse, or their partner are age 62 or older are excluded from our population of working-age households.

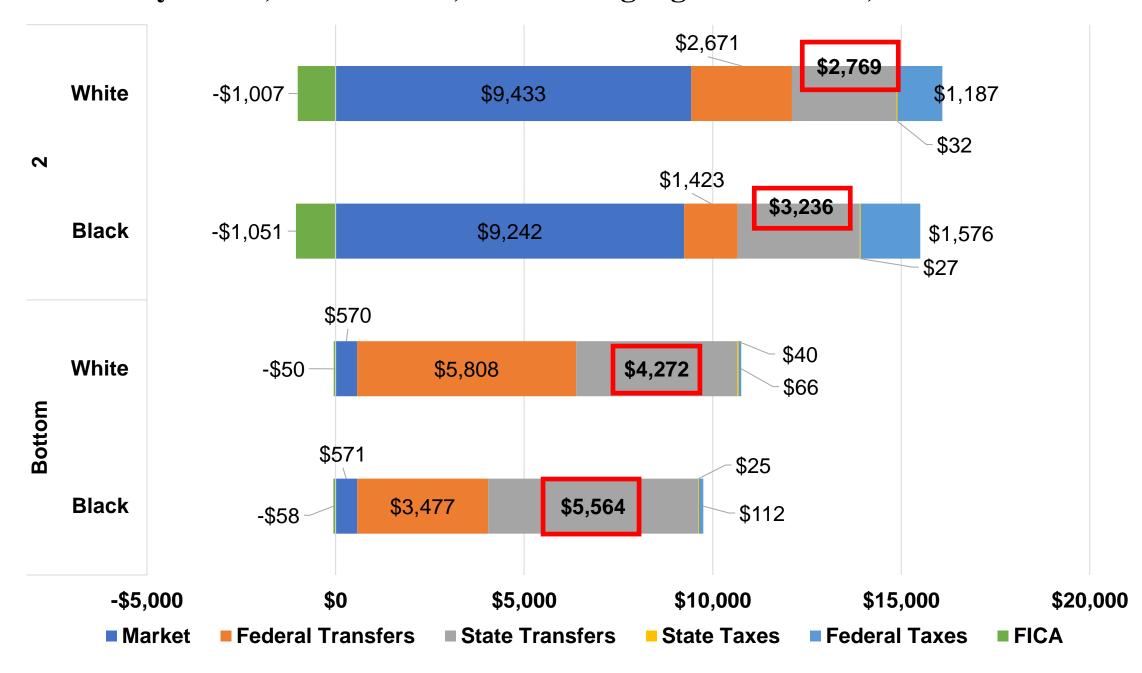
#### Mechanisms by Decile, All Working-Age Households, 2013-2017



#### Mechanisms by Decile, Black-White, All Working-Age Households, 2013-2017



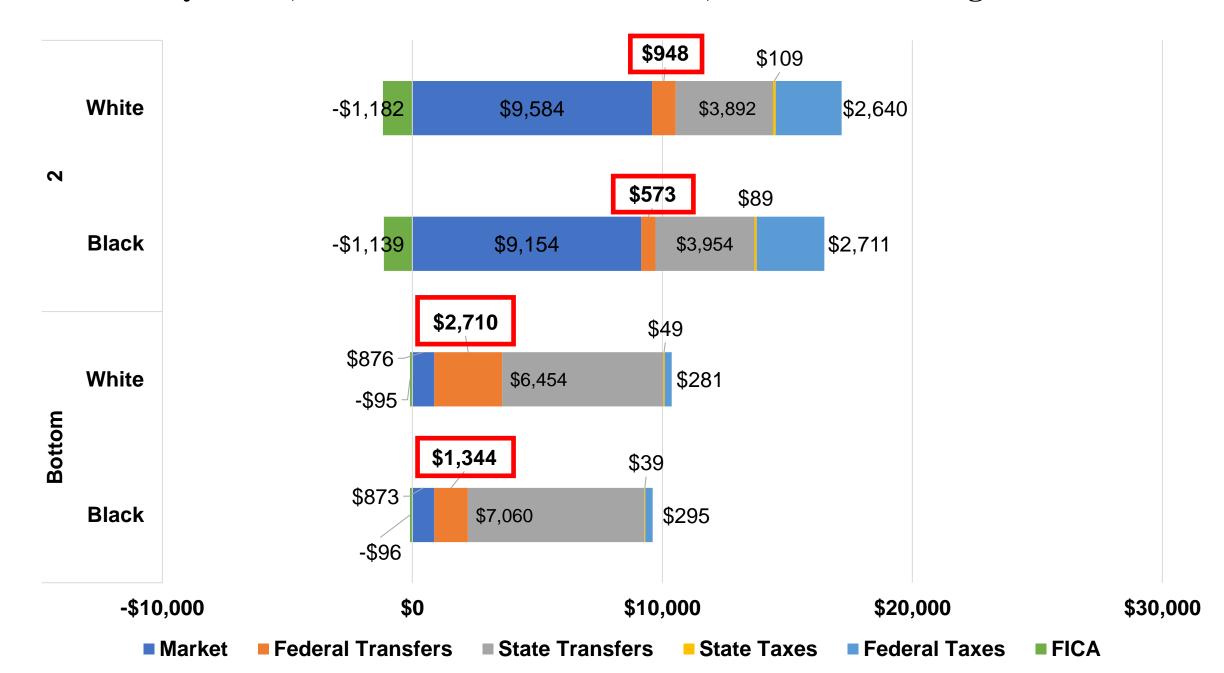
#### Mechanisms by Decile, Black-White, All Working-Age Households, 2013-2017



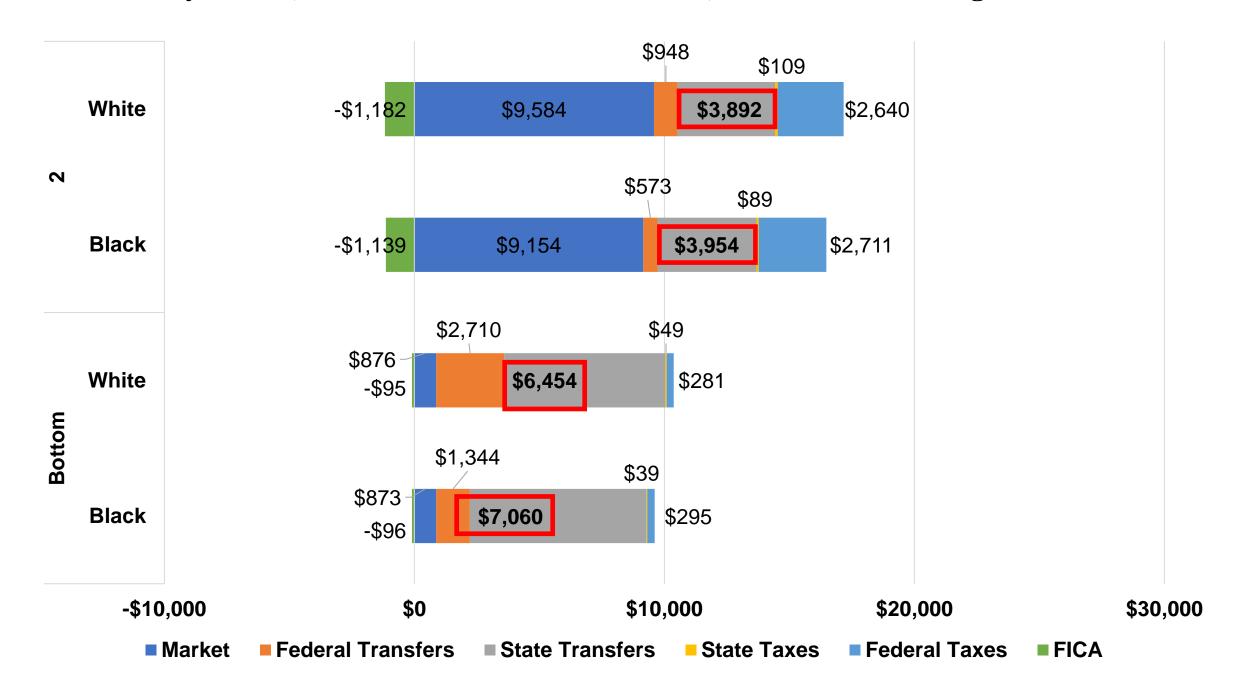
#### Mechanisms by Decile, All WA HH, Black-White Disparities

			Federal	State	State	Federal		
Decile		Market	Transfers	Transfers	Taxes	Taxes	FICA	Disposable
2	Black	\$9,242	\$1,423	\$3,236	\$27	\$1,576	-\$1,051	\$14,453
	White	\$9,433	\$2,671	\$2,769	\$32	\$1,187	-\$1,007	\$15,085
		-2.1%	-87.7%	14.4%	-18.5%	24.7%	4.2%	-4.4%
Bottom	Black	\$571	\$3,477	\$5,564	\$25	\$112	-\$58	\$9,693
	White	\$570	\$5,808	\$4,272	\$40	\$66	-\$50	\$10,705
		0.2%	-67.0%	23.2%	-60.0%	41.1%	13.8%	-10.4%

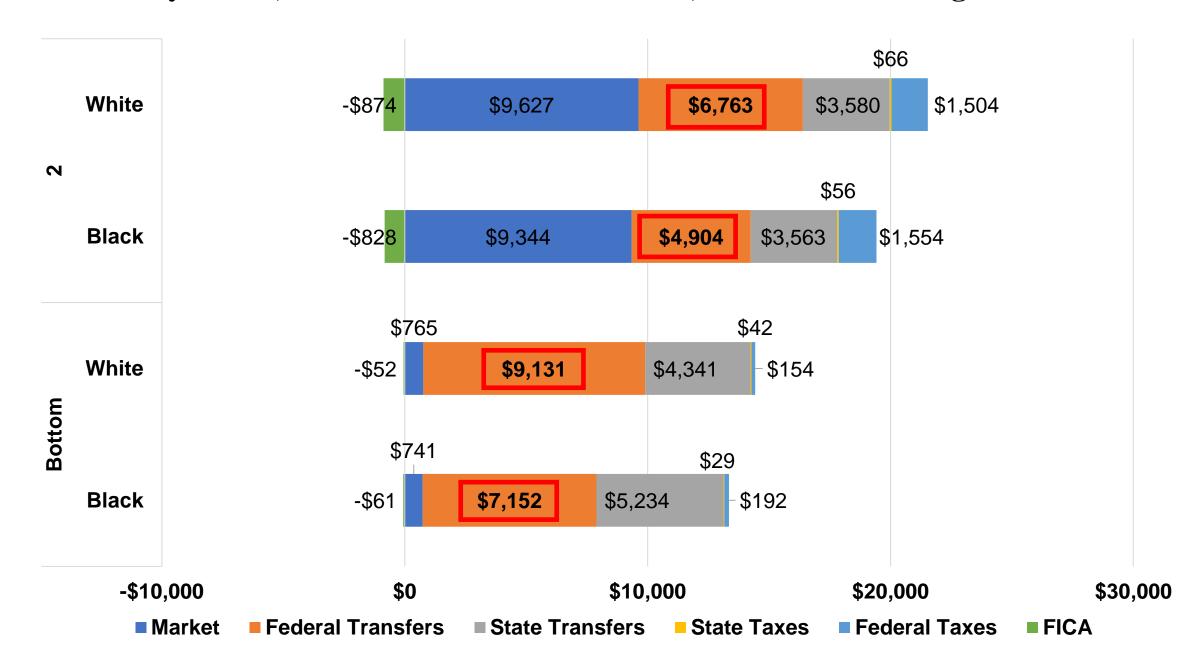
#### Mechanisms by Decile, Black-White WA HH w/ Kids, no Retirement-Eligible



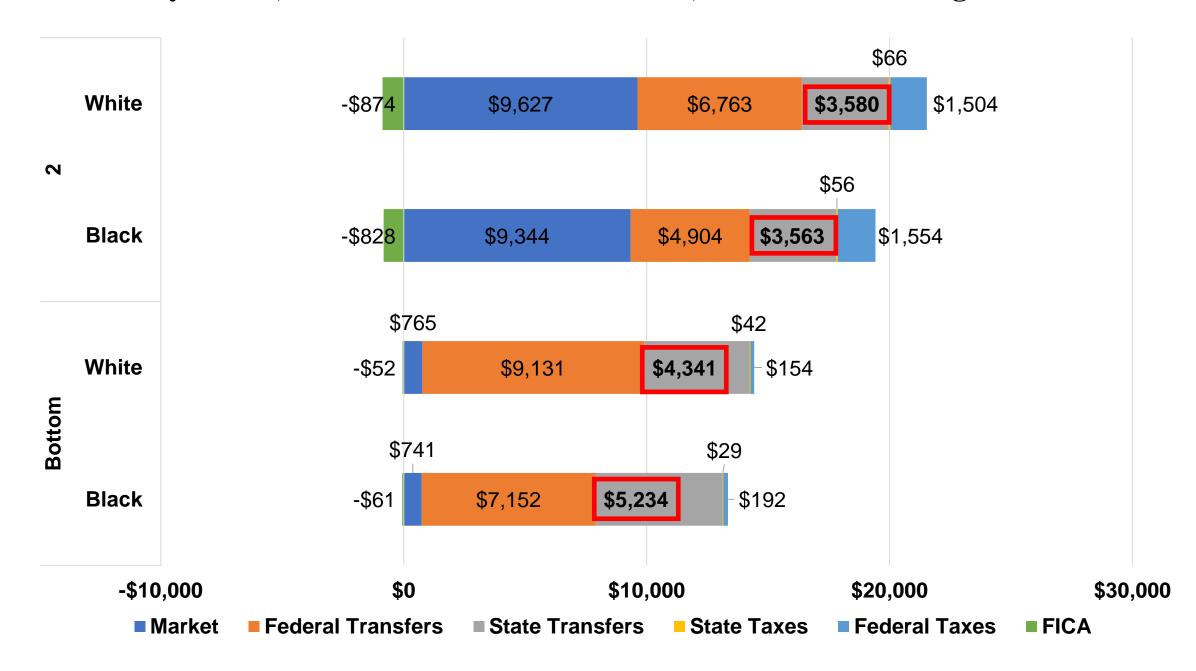
#### Mechanisms by Decile, Black-White WA HH w/ Kids, no Retirement-Eligible



#### Mechanisms by Decile, Black-White WA HH w/ Kids, w/ Retirement-Eligible



#### Mechanisms by Decile, Black-White WA HH w/ Kids, w/ Retirement-Eligible



#### Mechanisms by Decile, Black-White WA HH w/ Kids, no Retirement-Eligible

			Federal	State	State	<b>Federal</b>		
Decile		Market	<b>Transfers</b>	Transfers	Taxes	<b>Taxes</b>	FICA	Disposable
Bottom	Black	\$873	\$1,344	\$7,060	\$39	\$295	-\$96	\$9,516
	White	\$876	\$2,710	\$6,454	\$49	\$281	-\$95	\$10,276
		-0.3%	-101.6%	8.6%	-25.6%	4.7%	1.0%	-8.0%
2	Black	\$9,154	\$573	\$3,954	\$89	\$2,711	-\$1,139	\$15,342
	White	\$9,584	\$948	\$3,892	\$109	\$2,640	-\$1,182	\$15,991
		-4.7%	-65.4%	1.6%	-22.5%	2.6%	-3.8%	-4.2%

#### Mechanisms by Decile, Black-White WA HH w/ Kids, w/ Retirement-Eligible

			Federal	State	State	Federal		
<b>Decile</b>		Market	Transfers	<b>Transfers</b>	Taxes	<b>Taxes</b>	FICA	Disposable
Bottom	Black	\$741	\$7,152	\$5,234	\$29	\$192	-\$61	\$13,286
	White	\$765	\$9,131	\$4,341	\$42	\$154	-\$52	\$14,381
		-3.2%	-27.7%	17.1%	-44.8%	19.8%	14.8%	-8.2%
2	Black	\$9,344	\$4,904	\$3,563	\$56	\$1,554	-\$828	\$18,592
	White	\$9,627	\$6,763	\$3,580	\$66	\$1,504	-\$874	\$20,665
		-3.0%	-37.9%	-0.5%	-17.9%	3.2%	-5.6%	-11.1%

# Kitagawa-Blinder-Oaxaca Decomposition of Black-White Differences in Federal and State Transfers, Bottom Two Income Deciles, 2013-2017

Federal Transfers	(n = 33,690)			State Transfers (n	9 = 33,690		
	Model I	Model II	Model III	<u> </u>	Model I	Model II	Model III
White Income	\$3,920	\$3,920	\$3,920	White Income	\$3,816	\$3,816	\$3,816
Black Income	\$2,794	\$2,794	\$2,794	<b>Black Income</b>	\$4,519	\$4,519	\$4,519
Difference	\$ <u>1,126***</u>	\$1,126***	\$1,126***	Difference	-\$703***	<b>'</b> -\$703***	-\$703***
% Explained	28.8***	23.9***	20.6***	% Explained	31.7***	<sup>*</sup> 53.3** <sup>*</sup>	29.7***
Age	9.4***	8.5***	8.5***	Age	-4.2***	· -2.9***	-2.7***
# Under 19	3.4***	2.5***	2.5***	# Under 19	5.0***	5.9***	5.9***
# Under 62	10.4***	10.4***	10.3***	# Under 62	4.6***	4.3***	4.2***
Family				Family			
Characteristics	5.9***	9.5***	9.3***	Characteristics	27.7***	22.0***	21.2***
Education		3.0***	3.4***	Education		13.8***	15.0***
Employment		-9.6***	-9.6***	<b>Employment</b>		11.4***	11.2***
Geography			-3.5***	Geography			-23.9***

# Kitagawa-Blinder-Oaxaca Decomposition of Black-White Differences in Federal Transfers, Kids w/ and w/o Retirement-Eligible, Bottom Two Deciles

Kids, No Retirement-Eligible ( $n = 14,830$ )		Kids with Retirement-Eligible ( $n = 780$ )	
	Full Model		Full Model
White Income	\$1,643	White Income	\$7,816
Black Income	\$997	Black Income	\$5,738
Difference	\$646***	Difference	\$2,078***
% Explained	14.3*	% Explained	47.8**
Age	17.7***	Age	14.5***
# Under 19	4.1***	# Under 19	5.1
# Under 62		# Under 62	5.0
Family		Family	
Characteristics	7.1**	Characteristics	-3.8
Education	0.5	Education	7.1
Employment	-15.0***	Employment	1.8
	0.5		47.5
Geography	-0.5	Geography	17.5

# Kitagawa-Blinder-Oaxaca Decomposition of Black-White Differences in State Transfers, Kids w/ and w/o Retirement-Eligible, Bottom Two Deciles

Kids, No Retirement-Eligible ( $n = 14,830$ )		Kids with Retirement-Eligible ( $n = 780$ )	
Fu	II Model		Full Model
White Income	\$4,861	White Income	\$3,818
Black Income	\$5,354	Black Income	\$4,308
Difference	-\$493***	Difference	-\$490
% Explained	60.9***	% Explained	98.7*
Age	-4.9***	Age	23.8*
# Under 19	12.6***	# Under 19	12.9
# Under 62		# Under 62	1.8
Family		Family	
Characteristics	41.2***	Characteristics	57.6**
Education	9.2***	Education	18.6*
Employment	32.1***	Employment	-2.6
Geography	-31.6***	Geography	-15.0

### Summary & Future Research

- U.S. tax and transfer system's institutional features categorical eligibility, tiered levels of support, and decentralized design shape inequalities by household type, and by race of the householder
  - Black households assisted by less stable forms of support with higher levels of state discretion and variation in provision
- Comparing households in the same income decile illustrates disparities in mechanism values
- Future research will explore different decomposition techniques; explore variation across state clusters