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Racial Inequality Trends and the Intergenerational Persistence of Income and Family Structure

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Table S1. Comparison of Markov Population Projection Estimates of Black-White Family Income Inequality and Observed Black-White Family Income Inequality

<i>Time-Varying Aspects of Transition Matrix</i>	Inherit Income		Inherit Income and Marital Status		Inherit Income and Marital Status	
	<i>None</i>	<i>Inc+Fert</i>	<i>None</i>	<i>Inc+Mar+Fert</i>	<i>None</i>	<i>Inc+Mar+Fert</i>
			<i>Independent Process</i>		<i>Dependent Process</i>	
<i>Fertility by Race-Quintile-Marital Status</i>						
Observed Data	-58	-53	-39	-28	-24	-12
<i>Counterfactuals with White Mobility</i>						
White Income Mobility	-97	-97	-84	-80	-	—
White Marital Mobility	-58	-53	-83	-79	-	—
White Fertility	-75	-72	-29	-51	-	-32
White Fertility, Income+Marital Mobility	-99	-99	-98	-97	-100	-96
<i>Counterfactuals with Independent Transitions</i>						
Independent Income Attainment	-53	-47	-27	-14	-	—
Independent Marital Attainment	-58	-53	-55	-30	-	—
Independent Income+Marital Attainment	-53	-47	-44	-16	-10	5
<i>Counterfactuals with Perfect Mobility</i>						
Perfect Income Mobility	-96	-96	-85	-98	-	—
Perfect Marital Mobility	-58	-53	-83	-73	-	—
Perfect Income+Marital Mobility	-96	-96	-98	-97	-	—
<i>Counterfactuals with No Mobility</i>						
No Income Mobility	-87	-86	-93	-86	-	—
No Marital Mobility	-58	-53	-81	-72	-	—
No Income+Marital Mobility	-87	-86	-94	-92	-	—
<i>Fertility by Race</i>						
Observed Data	-27	-13	-15	-3	7	24
<i>Counterfactuals with White Mobility</i>						
White Income Mobility	-86	-83	-65	-60	-	—
White Marital Mobility	-27	-13	-62	-55	-	—
White Fertility	-77	-72	-26	-48	-	-24
White Fertility, Income+Marital Mobility	-99	-99	-99	-99	-100	-92

<i>Counterfactuals with Independent Transitions</i>						
Independent Income Attainment	-18	-2	-8	7	-	—
Independent Marital Attainment	-27	-13	-60	2	-	—
Independent Income+Marital Attainment	-18	-2	-55	11	12	33
<i>Counterfactuals with Perfect Mobility</i>						
Perfect Income Mobility	-81	-77	-67	-67	-	—
Perfect Marital Mobility	-27	-13	-65	-51	-	—
Perfect Income+Marital Mobility	-81	-77	-90	-87	-	—
<i>Counterfactuals with No Mobility</i>						
No Income Mobility	-79	-76	-67	-54	-	—
No Marital Mobility	-27	-13	-65	-51	-	—
No Income+Marital Mobility	-79	-76	-89	-86	-	—

Source: Panel Study of Income Dynamics, National Vital Statistics, decennial Census, and March Current Population Survey data.

Note: Cell entries show difference between projected and observed KL divergence between white and black distributions as percent of observed KL divergence. Empty cells represent undefined counterfactuals.

Table S2. Markov Population Projection Estimates, Within- and Between-Group Inequality

<i>Time-Varying Aspects of Transition Matrix</i>	Inherit Income						Inherit Income and Marital Status Independent Process						Inherit Income and Marital Status Dependent Process					
	<i>None</i>			<i>Inc+Fert</i>			<i>None</i>			<i>Inc+Mar+Fert</i>			<i>None</i>			<i>Inc+Mar+Fert</i>		
	W	B	KL	W	B	KL	W	B	KL	W	B	KL	W	B	KL	W	B	KL
<i>Fertility by Race-Quintile-Marital Status</i>																		
Observed Data	2.25	2.10	.06	2.26	2.10	.06	3.23	3.30	.15	3.24	3.30	.15	3.23	3.29	.18	3.24	3.28	.18
<i>Counterfactuals with White Mobility</i>																		
White Income Mobility	2.25	2.23	.00	2.26	2.23	.00	3.23	3.30	.04	3.24	3.30	.04	-	-	-	-	-	--
White Marital Mobility	2.25	2.10	.06	2.26	2.10	.06	3.23	3.29	.04	3.24	3.30	.04	-	-	-	-	-	-
White Fertility	2.25	2.14	.03	2.26	2.15	.03	3.23	3.30	.10	3.24	3.30	.10	-	-	-	3.24	3.30	.14
White Fertility, Income+Marital Mobility	2.25	2.26	.00	2.26	2.26	.00	3.23	3.21	.00	3.24	3.21	.01	3.23	3.26	.00	3.24	3.26	.01
<i>Counterfactuals with Independent Transitions</i>																		
Independent Income Attainment	2.25	2.09	.07	2.26	2.09	.07	3.23	3.29	.17	3.24	3.28	.17	-	-	-	-	-	-
Independent Marital Attainment	2.25	2.10	.06	2.26	2.10	.06	3.24	3.30	.11	3.24	3.29	.14	-	-	-	-	-	-
Independent Income+Marital Attainment	2.25	2.09	.07	2.26	2.09	.07	3.24	3.29	.13	3.24	3.28	.17	3.23	3.27	.21	3.24	3.27	.21
<i>Counterfactuals with Perfect Mobility</i>																		
Perfect Income Mobility	2.26	2.22	.01	2.26	2.22	.01	3.23	3.30	.04	2.77	2.78	.00	-	-	-	-	-	-
Perfect Marital Mobility	2.25	2.10	.06	2.26	2.10	.06	3.27	3.31	.04	3.27	3.30	.05	-	-	-	-	-	-
Perfect Income+Marital Mobility	2.26	2.22	.01	2.26	2.22	.01	3.27	3.29	.01	3.27	3.29	.01	-	-	-	-	-	-
<i>Counterfactuals with No Mobility</i>																		
No Income Mobility	2.26	2.18	.02	2.26	2.18	.02	3.25	3.30	.02	3.25	3.30	.03	-	-	-	-	-	-
No Marital Mobility	2.25	2.10	.06	2.25	2.10	.06	3.17	3.28	.05	3.17	3.28	.06	-	-	-	-	-	-
No Income+Marital Mobility	2.26	2.18	.02	2.26	2.18	.02	3.19	3.25	.01	3.19	3.26	.02	-	-	-	-	-	-
<i>Fertility by Race</i>																		
Observed Data	2.29	2.12	.10	2.30	2.14	.11	3.28	3.07	.20	3.28	3.09	.20	3.28	3.04	.25	3.28	3.06	.25
<i>Counterfactuals with White Mobility</i>																		
White Income Mobility	2.29	2.24	.02	2.30	2.25	.02	3.28	3.20	.08	3.28	3.21	.08	-	-	-	-	-	-
White Marital Mobility	2.29	2.12	.10	2.30	2.14	.11	3.28	3.15	.09	3.28	3.16	.09	-	-	-	-	-	-
White Fertility	2.29	2.22	.03	2.30	2.22	.03	3.28	3.17	.10	3.28	3.17	.11	-	-	-	3.28	3.14	.15
White Fertility, Income+Marital Mobility	2.29	2.30	.00	2.30	2.30	.00	3.28	3.30	.00	3.28	3.29	.00	3.28	3.29	.00	3.28	3.29	.02

<i>Counterfactuals with Independent Transitions</i>																			
Independent Income Attainment	2.29	2.11	.11	2.29	2.12	.12	3.28	3.06	.22	3.28	3.07	.21	-	-	-	-	-	-	
Independent Marital Attainment	2.29	2.12	.10	2.30	2.14	.11	3.28	3.12	.10	3.28	3.09	.20	-	-	-	-	-	-	
Independent Income+Marital Attainment	2.29	2.11	.11	2.29	2.12	.12	3.28	3.11	.11	3.28	3.07	.22	3.28	3.03	.27	3.27	3.05	.27	
<i>Counterfactuals with Perfect Mobility</i>																			
Perfect Income Mobility	2.29	2.23	.03	2.30	2.24	.03	3.28	3.19	.08	2.67	2.49	.07	-	-	-	-	-	-	
Perfect Marital Mobility	2.29	2.12	.10	2.30	2.14	.11	3.28	3.13	.08	3.28	3.13	.10	-	-	-	-	-	-	
Perfect Income+Marital Mobility	2.29	2.23	.03	2.30	2.24	.03	3.29	3.22	.02	3.28	3.23	.03	-	-	-	-	-	-	
<i>Counterfactuals with No Mobility</i>																			
No Income Mobility	2.29	2.22	.03	2.30	2.24	.03	3.29	3.19	.08	3.28	3.19	.09	-	-	-	-	-	-	
No Marital Mobility	2.29	2.12	.10	2.30	2.14	.11	3.28	3.13	.08	3.29	3.13	.10	-	-	-	-	-	-	
No Income+Marital Mobility	2.29	2.22	.03	2.30	2.24	.03	3.28	3.22	.03	3.29	3.23	.03	-	-	-	-	-	-	

Source: Panel Study of Income Dynamics, National Vital Statistics, decennial Census, and March Current Population Survey data.

Note: Cell entries show entropy of white and black distributions (W and B columns) and KL divergence between white and black distributions (KL columns). Empty cells represent undefined counterfactuals.

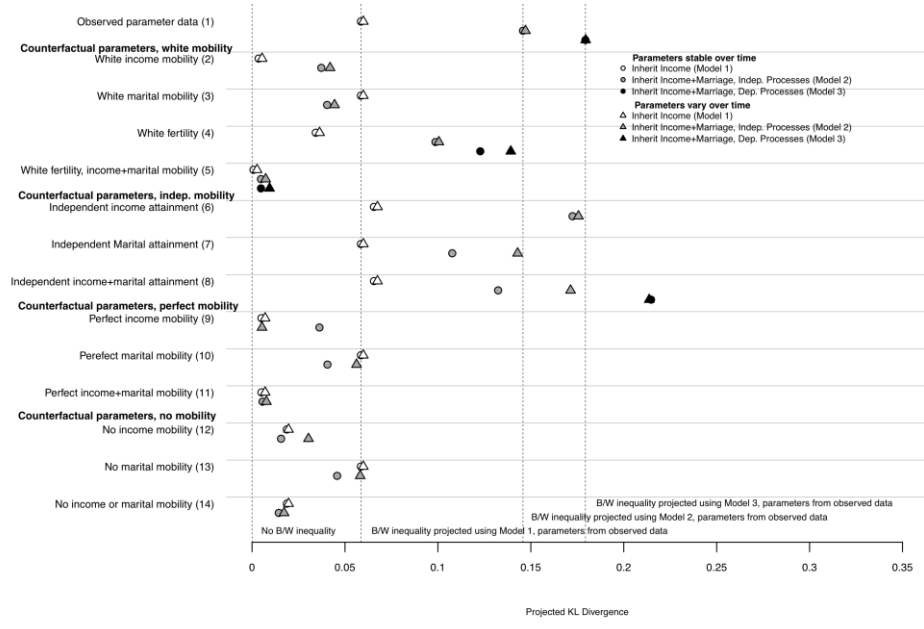
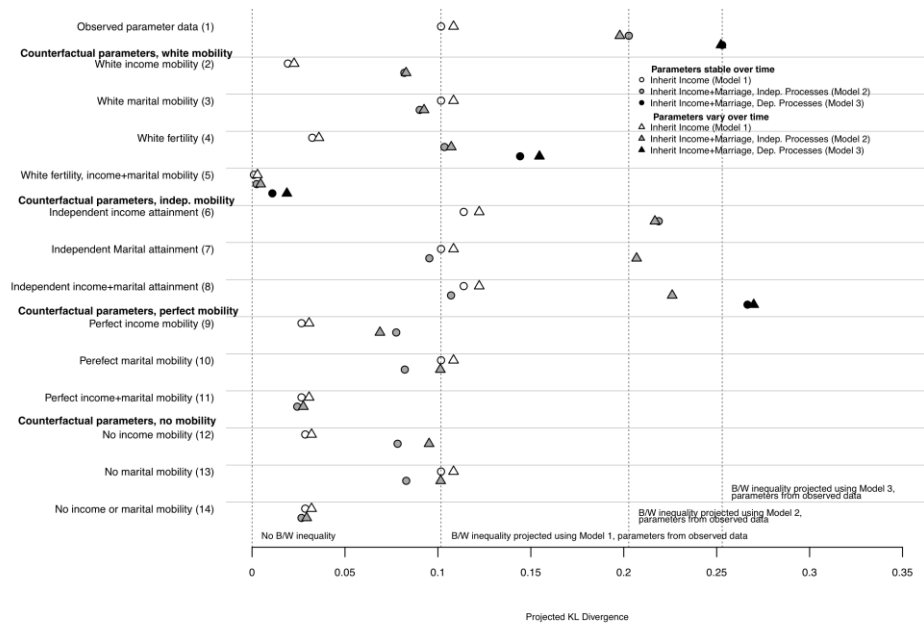


Figure S1. Markov Population Projection Estimates of Black-White Inequality

Source: Panel Study of Income Dynamics, National Vital Statistics, decennial Census, and March Current Population Survey data.

Note: Top panel shows fertility by race only; bottom panel shows fertility by race, class, and marital status.

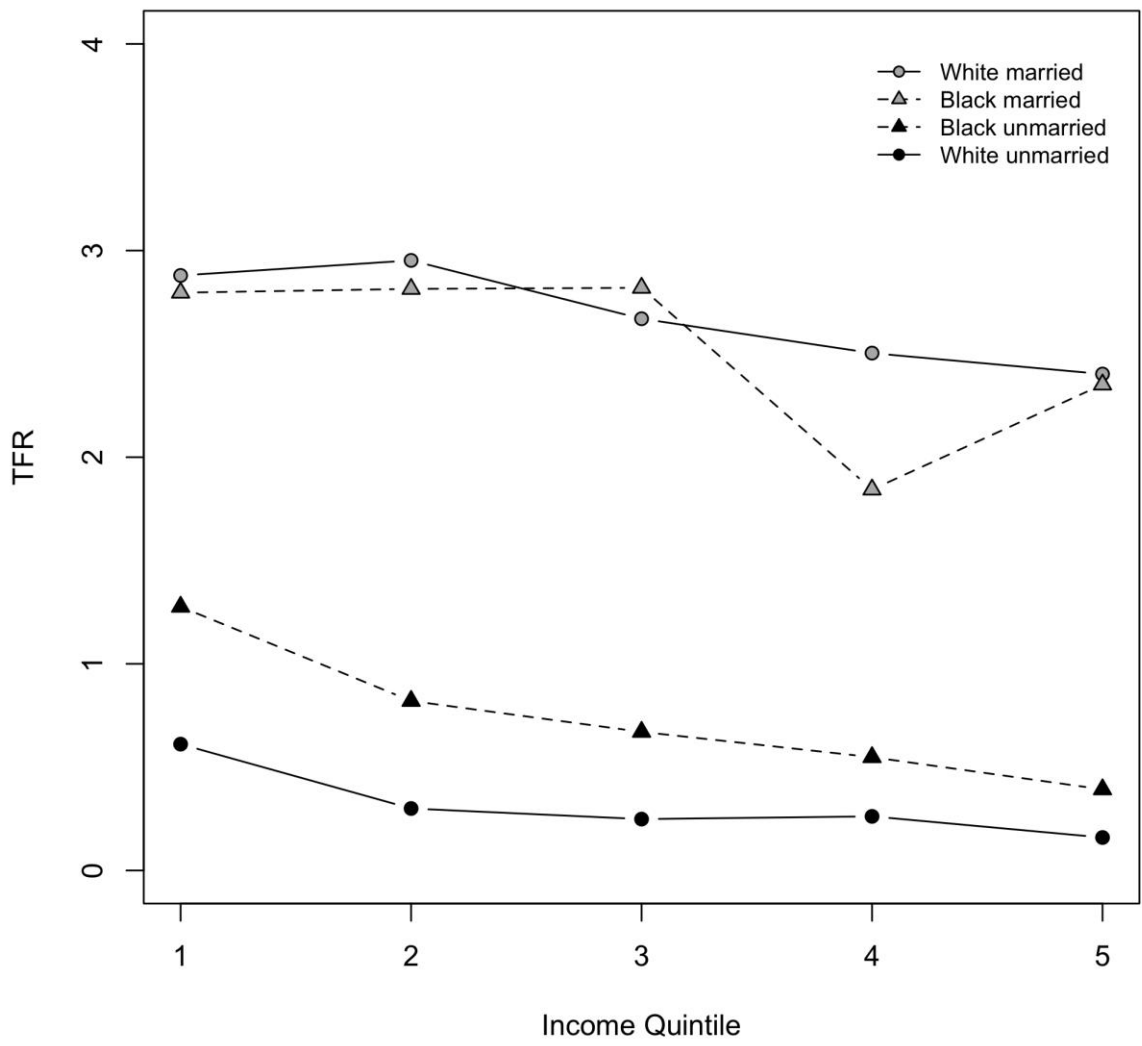


Figure S2. Total Fertility Rates Calculated Using Own-Child Method, by Race, Marital Status, and Income Quintile
Source: Decennial Census data, 1970.