Changing Opportunity

Sociological Mechanisms Underlying Growing Class Gaps and Shrinking Race Gaps in Economic Mobility

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The Geography of Upward Mobility in the United States

Average Household Income at Age 35 for Children born in 1980 whose Parents Earned \$27K





Rates of Slavery in the 1860s vs. Present-Day Upward Mobility

Rates of Slavery (1860) Share of the Population that Were Enumerated as Slaves in the 1860 Census



Yellow = Lower Share of Slaves Brown = Higher Share of Slaves

Upward Mobility

Average Household Income at Age 35 for Children whose Parents Earned \$27k (25th percentile)



Blue = More Upward Mobility Red = Less Upward Mobility



Redlining in the 1930s vs. Present-Day Upward Mobility Oakland, CA

Redlining Boundaries (1930s)

Neighborhood grade, 1930s



Upward Mobility

Average Household Income at Age 35 for Children whose Parents Earned \$27k (25th percentile)



Red = Less Upward Mobility

Source: Lane, Morello-Frosch, Marshall, and Apte (2022); Chetty, Friedman, Hendren, Jones, Porter (2018)



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New Data Give us a Lens to Study Changes in Opportunity

- 2014 Opportunity Insights Land of Opportunity study focused on children born around 1980
- We use an additional decade of tax data to analyze changes in outcomes for children born in the 1978-1992 birth cohorts
- First evidence on changes in economic mobility within places and mechanisms underlying changes in opportunity

Data

 Census data (2000, 2010, ACS) covering U.S. population linked to federal income tax returns from 1979-2019 [extending Chetty, Hendren, Jones, Porter 2020]

- Sample: children in 1978-92 birth cohorts, linked to parents via dependent claiming
 - 57.2 million children, 92% of those in 1978-92 birth cohorts in 2000 Census

Variable Definitions

- Parents' pre-tax household incomes: mean Adjusted Gross Income when child is 13-17, assigning zeros to non-filers
- Children's pre-tax household incomes measured at age 27 (from 2005-2019)
- Translate to percentile ranks: rank children relative to others in their birth cohort and parents relative to other parents with children in that birth cohort
- Self-reported information on child's race/ethnicity from 2000 Census







White Class Gap for Children with High vs. Low-Income Parents, by Birth Cohort







Growing Class Gaps, Shrinking Race Gaps

White-Black Gap for Children with Low-Income Parents vs. White Class Gap, by Birth Cohort



Quintile Transition Probabilities for Children with Parents in Bottom Income Quintile



Persistence of Poverty

Quintile Transition Probabilities for Children with Parents in Bottom Income Quintile



Quintile Transition Probabilities for Children with Parents in Bottom Income Quintile



Quintile Transition Probabilities for Children with Parents in Bottom Income Quintile



Growing Class Gaps, Shrinking Race Gaps in Mortality Rates between Ages 24-27 White-Black Gap for Children with Low-Income Parents vs. White Class Gap, by Birth Cohort



Growing Class Gaps, Shrinking Race Gaps in Educational Attainment at Age 27 White-Black Gap for Children with Low-Income Parents vs. White Class Gap, by Birth Cohort



Changes in Economic Mobility for White Americans

White Children with Low-Income Parents

1978 Birth Cohort





Changes in Economic Mobility for White Americans

White Children with Low-Income Parents





Changes in Economic Mobility for Black Americans

Black Children with Low-Income Parents





Economic Mobility for Black vs. White Children Born in 1992







Change in Mean Child Household Income Percentile by Race and Class Household Income Percentile at Age 27, 1992-1978 Cohort Difference



Mechanisms Underlying Trends in Mobility

Potential Explanations for Growing Class Gaps and Shrinking Race Gaps

- Begin by considering two natural explanations for changes in intergenerational mobility by race and class:
 - 1. Changes in family-level characteristics (e.g., education, marriage, wealth, occupation)
 - 2. Differential shocks across areas (e.g., predominantly Black vs. White areas)

Can Family Characteristics or Neighborhoods Explain Changes in Gaps?

Household Income Percentile at Age 27, 1992-1978 Cohort Difference



 $Y = \beta_1 White + \beta_2 Cohort + \beta_3 White \times Cohort + \alpha_{nw} + \alpha_{nc} + \varepsilon$

Can Family Characteristics or Neighborhoods Explain Changes in Gaps?

Household Income Percentile at Age 27, 1992-1978 Cohort Difference



What Drives the Divergence in Outcomes by Race and Class?

- Changes in intergenerational mobility by race and class must be driven by differential trends within areas
- One hypothesis for such changes emphasized in prior ethnographic work: changes in employment rates
- Can differential changes in parental employment by race and class explain within-area divergence?

Many of today's problems...crime, family dissolution, welfare, low levels of social organization, and so on...are fundamentally a consequence of the disappearance of work.

- William Julius Wilson When Work Disappears (1996)

Changes in Economic Mobility vs. Changes in Employment Rates

- Examine link between changes in employment rates and economic mobility across areas
 - Measure race-specific change in parental employment rates across counties as change in adults' employment rates from 1980 to 2000 Census
 - Use employment rates as a proxy for community-level environmental conditions more broadly, as in Wilson (1996)

Changes in Children's Income Percentiles vs. Adult Employment Rates, 1978-92 Cohorts By County and Race



△ County-Level Employment Rate for Same-Race Adults (1980-2000 Calendar Years)

Explaining Divergence in Outcomes by Race and Class

- To explain divergence by race and class, need to measure employment rates not just by race and county but also by class
- Measure county-level changes in parental employment rates by race and class from 1978 to 1992 birth cohorts
- Because we define "class" as parent's income percentile during childhood (ages 13-17), need to measure employment after child is 18
 - In baseline analysis, measure parental employment rates when child is 27
 - Results insensitive to alternative points of measurement because variation in employment rates is primarily across cohorts rather than calendar years









Explaining National Trends in Intergenerational Mobility Gaps by Race and Class



Changes in Children's Income Percentiles vs. Parent Employment Rates, 1978-92 Cohorts By County, Race, and Class for Children whose Own Parents Remain Employed



Changes in Children's Income Percentiles vs. Mother's Marriage Rates, 1978-92 Cohorts By County, Race, and Class



Why are Changes in Mobility Related to Changes in Parent Employment Rates? Why Are Changes in Parental Outcomes Correlated with Children's Outcomes?

[Correlated Shocks]

Changes in labor demand affect both parents and children directly [Environmental Exposure Effect]

Changes in childhood environment have a causal effect on children's outcomes

Test between these explanations by studying children who **moved** to improving vs. declining areas

Causal Effects of Childhood Environment Changes: Evidence from Movers Children's Incomes vs. Trends in Parental Employment in Destination, 1992 Birth Cohort



Causal Effects of Childhood Environment Changes: Evidence from Movers Children's Incomes vs. Trends in Parental Employment in Destination, 1992 Birth Cohort



Effect of Trends in Parent Employment Rate in Destination By Move Age and Cohort



Effect of Trends in Parent Employment Rate in Destination By Move Age and Cohort



Balance Test Using Predicted Outcomes Based on Parent Characteristics



Differences in Siblings' Outcomes vs. Trend in Parent Employment Rates Younger Sibling's Minus Older Sibling's Income Percentile in Destination County



Changes in Children's SAT/ACT Scores vs. Parent Employment Rates By County, Race, and Class



Why Does Childhood Exposure to Higher Parent Employment Improve Outcomes? Why Does Growing Up in a Community With Higher Parent Employment Rates Improve Children's Outcomes?

[Social Interaction]

Higher parental employment improves children's outcomes via social interactions (job referrals, aspirations) [Economic Resources]

Higher parental employment expands financial resources at community level (schools, local programs)

Test between these explanations by exploiting differences in **friendship patterns** across groups

Effect of Changes in Parental Employment Rates Across Cohorts Friendship Rates and Parent Employment Effects in Own Cohort vs. Adjacent Cohorts



Effect of Changes in Parental Employment Rates Across Cohorts Friendship Rates and Parent Employment Effects in Own Cohort vs. Adjacent Cohorts





Race and Class Group of \triangle Parental Employment Variable



Race and Class Group of Δ Parental Employment Variable



Race and Class Group of \triangle Parental Employment Variable



Race and Class Group of \triangle Parental Employment Variable



Race and Class Group of Δ Parental Employment Variable

Implications for Increasing Mobility

Policy Implications

Most important takeaway: opportunity can change in short timeframes

- What do these findings imply for efforts to increase mobility going forward?
 - 1. Support **next generation** in communities where parents' employment rates are currently falling (not just current generation)
 - 2. Focus on **social communities** within neighborhoods not just neighborhoods as a whole as unit of change
 - 3. Provide **social capital** in addition to financial and human capital

New Data on Changes in Opportunity

- Key open question: what interventions can create changes in social communities that increase mobility?
- To support the field in making progress on answering this question, we have released new data on changes in economic mobility
- Visit the Opportunity Atlas (<u>www.opportunityatlas.org</u>) to see data for your own county and download data by race, parental income, gender, cohort, and county

Changes in Economic Mobility Across Areas

50 Largest Metro Areas (Commuting Zones)

Top <u>5 Most Impr</u>oved

INCOME AT AGE 27 INCOME AT AGE 27 LOCATION **1978 BIRTH YEAR 1992 BIRTH YEAR** % CHANGE -Brownsville, TX \$31.4K \$33.5K 6.7% 1 2 Austin, TX \$29.6K \$31.6K 6.4% 3 Charlotte, NC \$26.7K \$28.1K 5.0% Nashville, TN \$28.7K \$30.1K 4.7% 4 5 Grand Rapids, MI \$30.1K \$31.4K 4.3%

Bottom 5: Least Improved

LOCATION	INCOME AT AGE 27 1978 BIRTH YEAR	INCOME AT AGE 27 1992 BIRTH YEAR	% CHANGE
46 Tampa, FL	\$29.8K	\$27.1K	-9.1%
47 Washington, DC	\$33.2K	\$30.2K	-9.1%
48 San Diego, CA	\$33.8K	\$30.7K	-9.2%
49 Las Vegas, NV	\$32.3K	\$28.8K	-10.6%
50 Philadelphia, PA	\$31.2K	\$27.2K	-12.7%

