

The geography of intergenerational mobility:

Evidence of educational persistence and the "Great Gatsby Curve" in Brazil

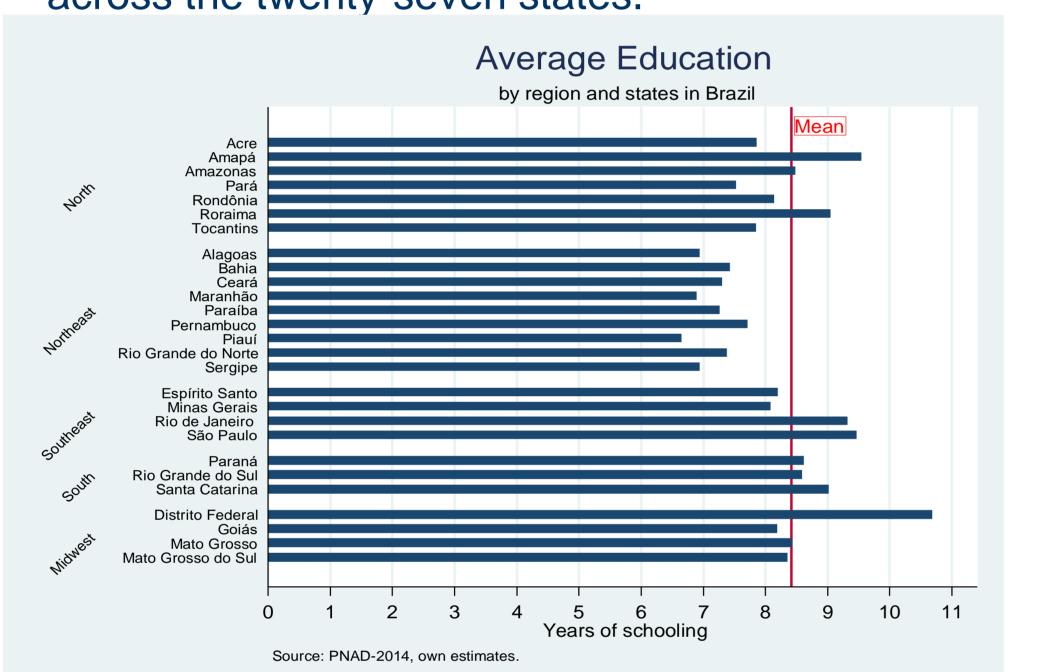
- 1. Is there a variation in intergenerational educational mobility across Brazilian states?
- 2. Does the "Great Gatsby Curve" also hold true within a single country?
- 3. Have children from families with low educational backgrounds living in states with higher income inequality levels a greater chance to drop out the school system?

Contribution

- "Great Gatsby Curve" free of comparability bias.
- Investigation of a causal link between income inequality and intergenerational mobility.
- > Empirical evidence on intergenerational mobility for developing countries.

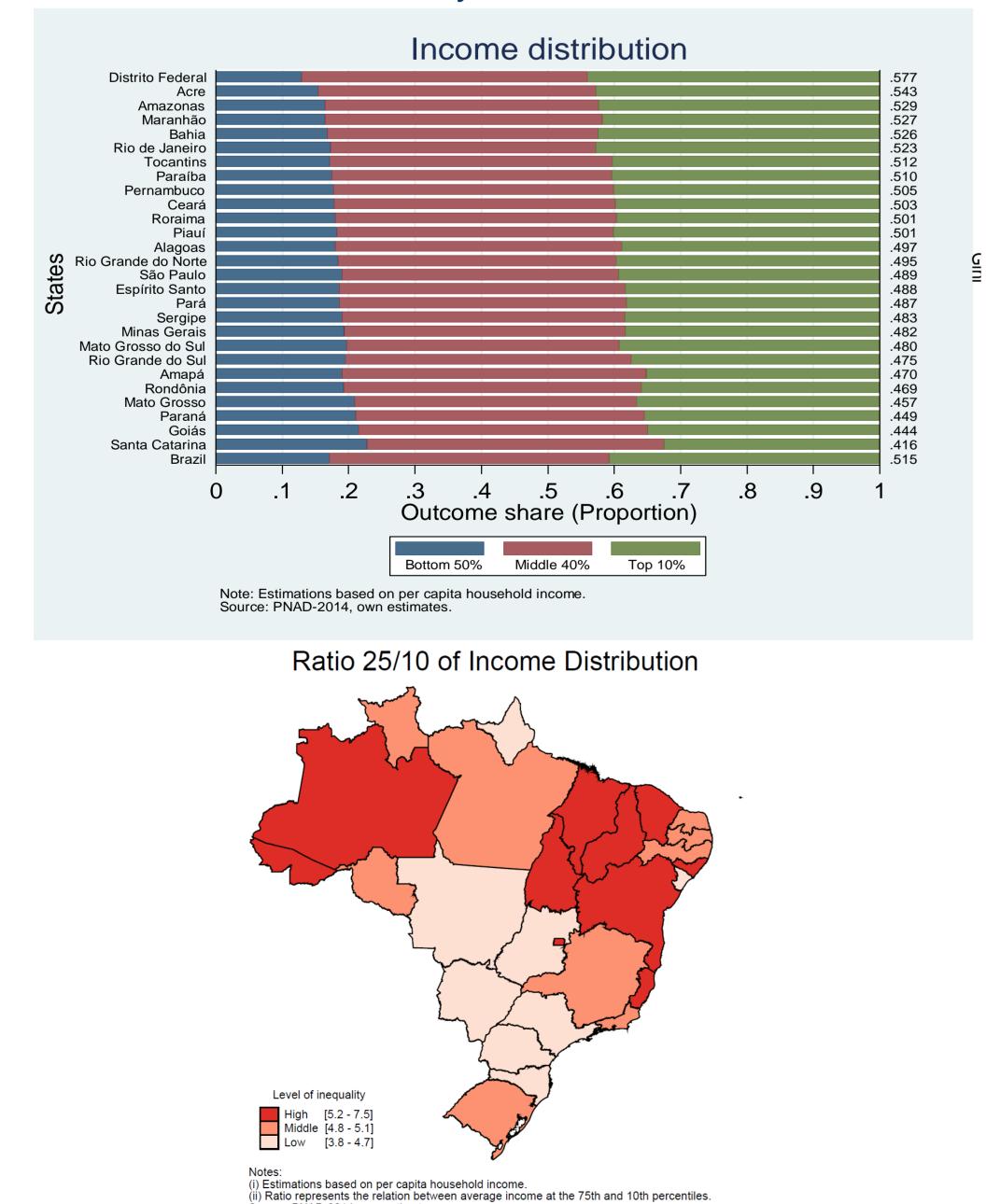
Motivation

- > Brazil as a promising area of research.
- The country has a significant variation in educational attainment and income inequality across the twenty-seven states.



Data

- ➤ National Household Sample Survey (PNAD-2014).
- ➤ Mobility supplement 2014 (46,051 individuals).
- Cross-sectional survey.



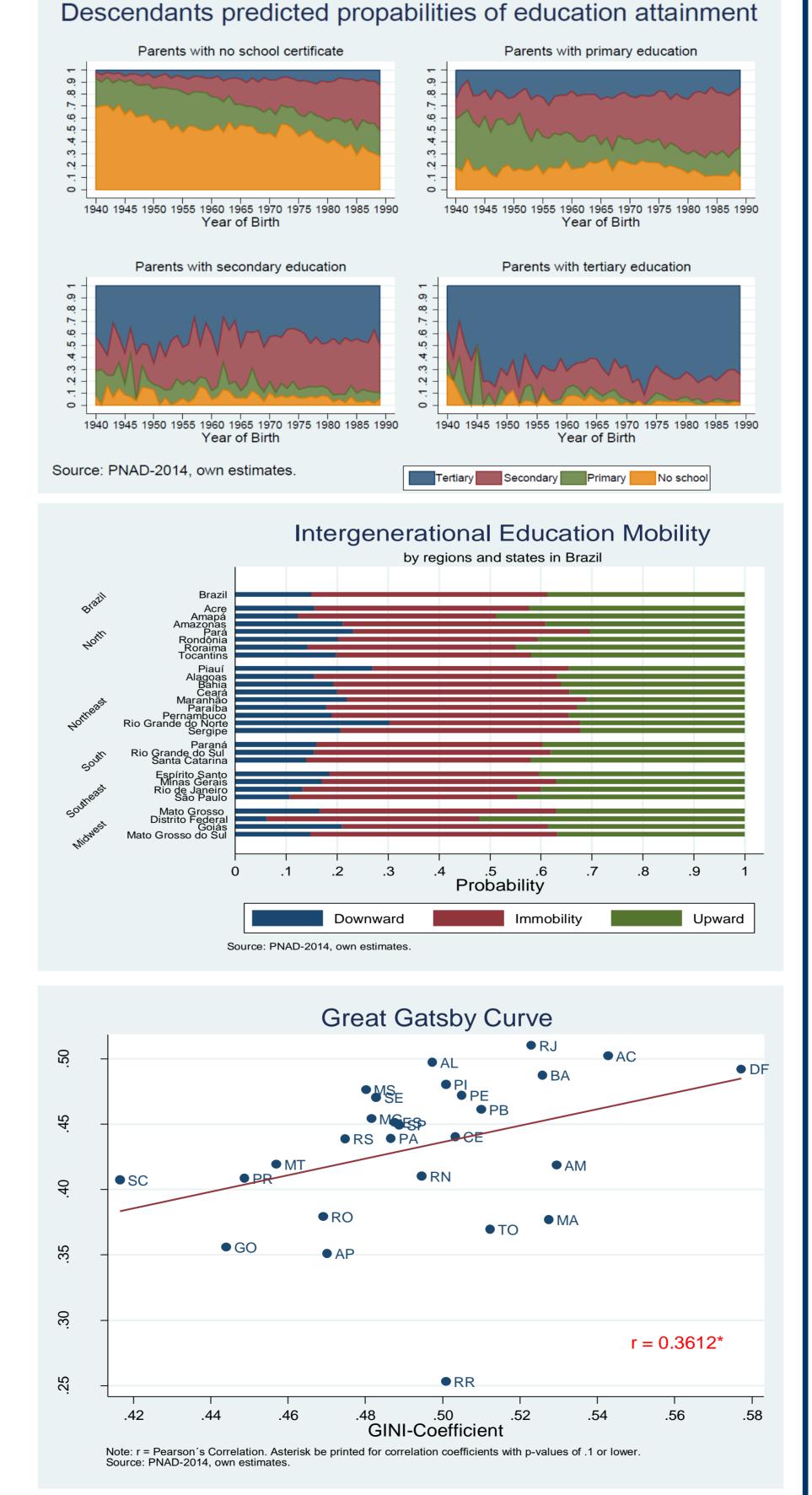
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Empirical Approaches

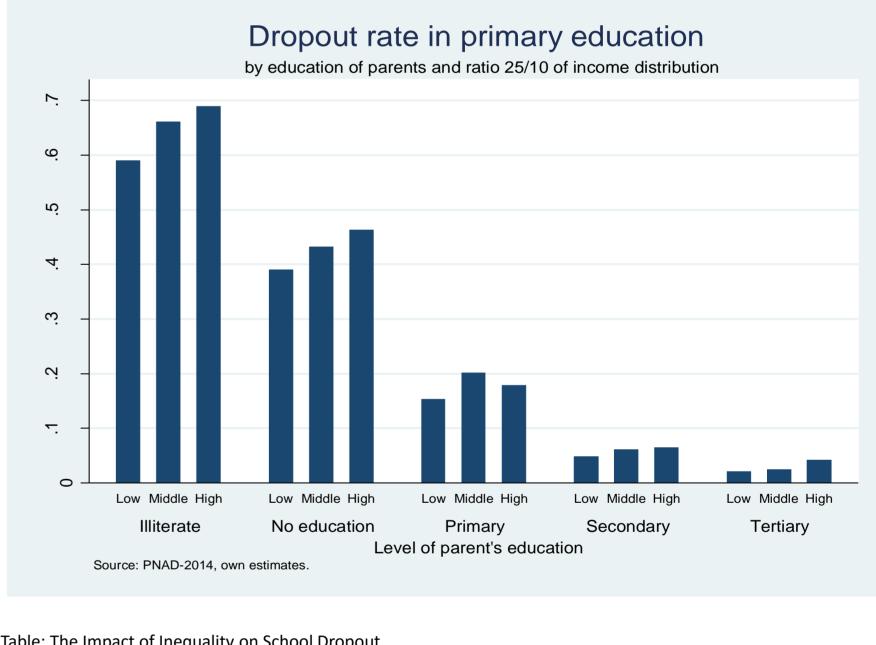
- 1. Transition Matrices: $\rho_{ij} = \mathbb{P}(X_{t+1} = j | X_t = i) \quad \text{for} \quad i, j \in \Re$
- 2. Linear Regression Model: $\frac{educ_{is}^c}{\sigma_s^c} = \delta + \rho \frac{educ_{is}^p}{\sigma_s^p} + \eta \left(\frac{educ_{is}^p}{\sigma_s^p} \bullet UF_i\right) + \lambda UF_i + \gamma (X_i \bullet UF_i) + \epsilon_{is}$
- 3. Probit Model: $EduOutcome_{isc} = \pi_0 + \pi_1 \left(IlliteP_{is} \bullet ratio_s\right) + \pi_2 \left(NoEducP_{is} \bullet ratio_s\right) \\ + \pi_3 \ IlliteP_{is} + \pi_4 \ NoEducP_{is} + \pi_5 \ ratio_s +$
 - $\gamma_1 \, male_{is} + \gamma_2 \, rural_{is} + \gamma_3 \, both P_{is} + \gamma_4 \, race_{is} + \gamma_5 \, birthc_{is} + \epsilon_{is}$
- 4. Marginal Effects: $\left| \frac{\partial E(EduOutcome \mid x)}{\partial x} \right| = \frac{\partial F(x\beta)}{\partial x} = f(\widetilde{x}\beta) \beta$

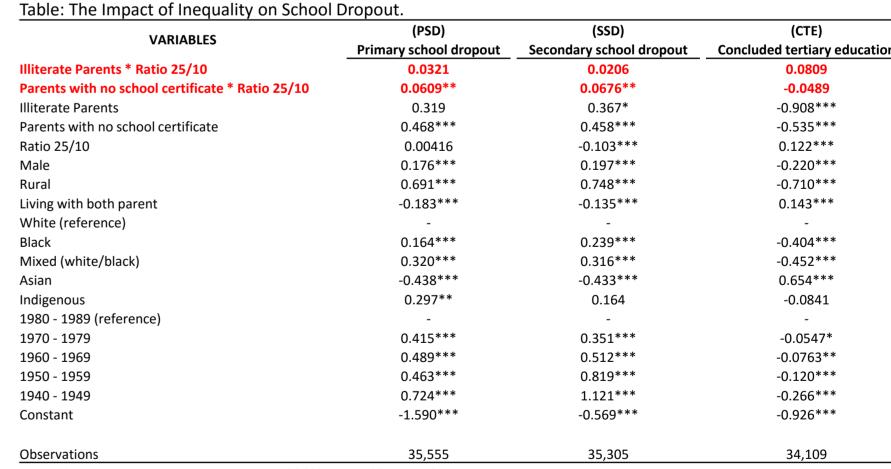
Results

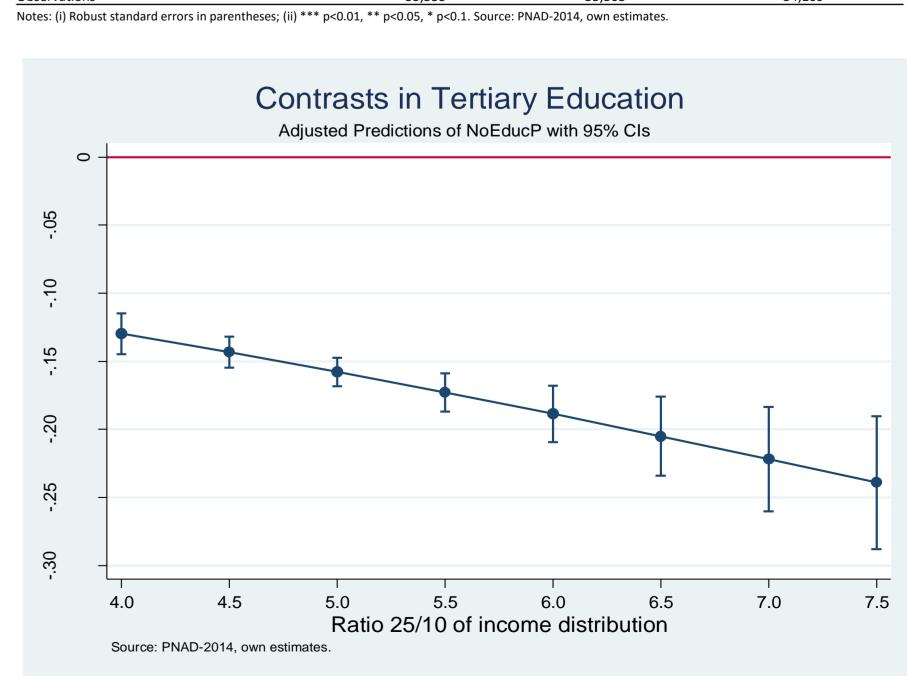
Intergenerational Mobility



Inequality and School Dropout







Conclusions

- > Intergenerational persistence in education varies substantially across Brazilian states.
- > Confirmation of the "Great Gatsby curve" at a national level.
- > Children born in families with no education are more likely to leave the school early if they are living in states where the gap between the bottom and middle of income distribution is wider.