

Wealth Mobility in the United States

Empirical Evidence from the PSID

Christophe Van Langenhove

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1. Introduction

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- **UK & Australia:** Gregg & Kanabar (2023), Levell & Sturrock (2023) and Siminsky & Yu (2022)

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 - What are the driving forces behind cross-country differences in wealth mobility outcomes?

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- ③ Within-family wealth rank interdependence: do changes in individuals' wealth ranks correlate with those of their parents over the same period?

2. Data & methods

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 - Instead, I estimate a [gradient-boosting ML-model](#) which uses additional household-level socio-economic data
 - The ML-proxies significantly outperform the naive proxies used in the literature

3. Inter-generational (family-level) mobility

Description

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- $\kappa^{\Psi} (w^{\Psi})$ – actual within-cohort wealth ranks (wealth levels) in the post-1984 sample
- $\hat{\kappa}^{\Omega} (\hat{w}^{\Omega})$ – ML-proxy within-cohort wealth ranks (wealth levels) in the full sample (from 1968 onwards)

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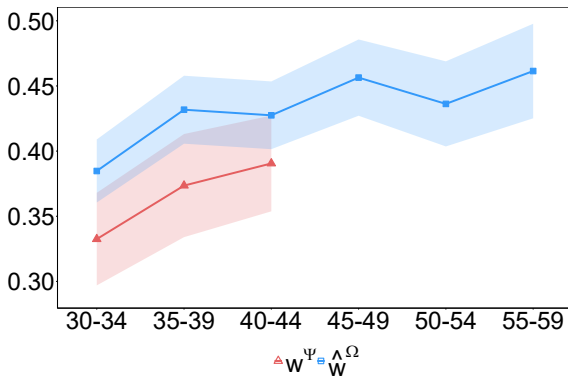


Figure 1: Two-generational rank-rank coefficients β for parents and children at identical lifecycle stages for the pooled dataset.

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- ④ *Time trend: two-generational wealth mobility in the US has declined over time*

Two generations

4. Time trend: two-generational wealth mobility in the US has declined over time.

| Variable | Stage | 1946-55 | 1956-65 | 1966-75 | 1976-85 | 1986-95 | Pooled |
|-----------------------|-------|---------|---------|---------|---------|---------|--------|
| κ^Ψ | 30-34 | - | - | - | 0.35 | - | 0.33 |
| | 35-39 | - | - | 0.34 | 0.40 | - | 0.38 |
| | 40-44 | - | - | 0.35 | 0.46 | - | 0.38 |
| $\hat{\kappa}^\Omega$ | 30-34 | - | - | 0.36 | 0.36 | 0.38 | 0.36 |
| | 35-39 | - | 0.38 | 0.44 | 0.45 | - | 0.43 |
| | 40-44 | - | 0.36 | 0.42 | 0.49 | - | 0.42 |
| | 45-49 | 0.47 | 0.42 | 0.46 | - | - | 0.45 |
| | 50-54 | 0.44 | 0.40 | - | - | - | 0.43 |
| | 55-59 | 0.47 | 0.45 | - | - | - | 0.45 |
| | 60-64 | 0.50 | - | - | - | - | 0.51 |

Table 1: Two-generational rank-rank coefficients β across children's age cohorts $\in \Upsilon^{\text{PC}}$ for parents and children at identical lifecycle stages.

Two generations

5. Overall mobility across two generations is driven by **mobility at both the bottom and top**.

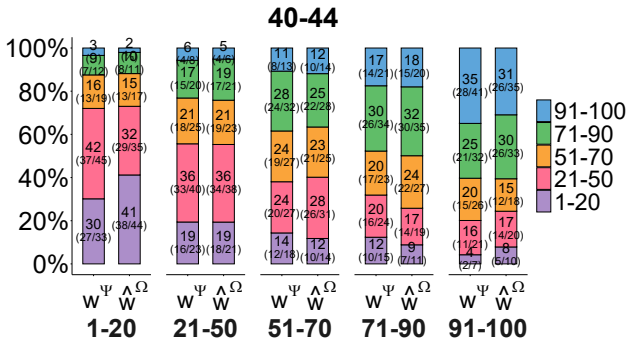


Figure 2: Ex-ante transition matrices $T_{EA}(a)$ between parental and children wealth ranks at lifecycle stage 40-44 for the pooled dataset.

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Grandchild age 30-34: three-generational rank-rank coefficients of 0.21–0.23 (actual wealth) or 0.27–0.29 (proxy wealth).

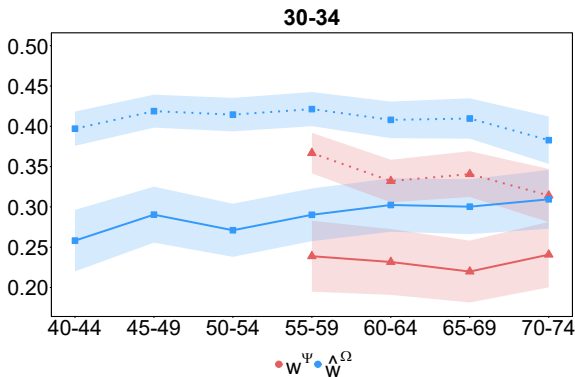


Figure 3: Rank-rank coefficients β for grandparents and grandchildren (solid lines) and parents and children (dotted lines) when (grand)children are aged 30-34.

Three generations

Grandchild age 35-39: three-generational rank-rank coefficients of 0.30–0.34 (proxy wealth).

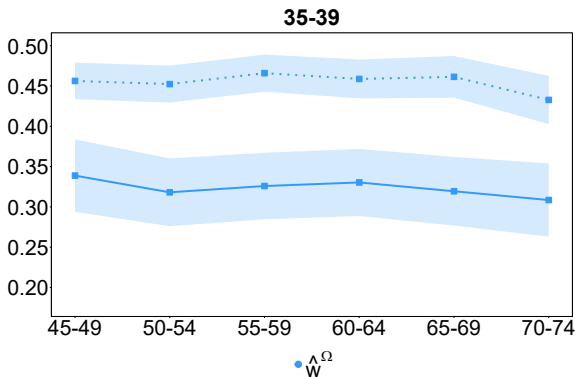


Figure 4: Rank-rank coefficients β for grandparents and grandchildren (solid lines) and parents and children (dotted lines) when (grand)children are aged 35-39.

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- ④ **Evidence of non-linearity:** mobility at the top is significantly higher over three compared to two generations

Three generations

Steady poor: grandparents and grandchildren in the bottom 20%

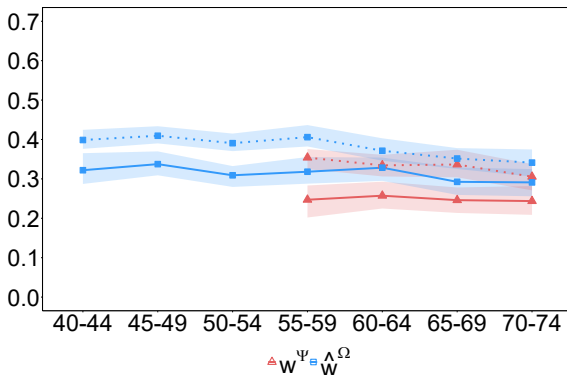


Figure 5: Transition probabilities for grandparents and grandchildren (solid lines) and parents and children (dotted lines) when (grand)children are aged 30-34.

Three generations

Steady wealthy: grandparents and grandchildren in the top 10%

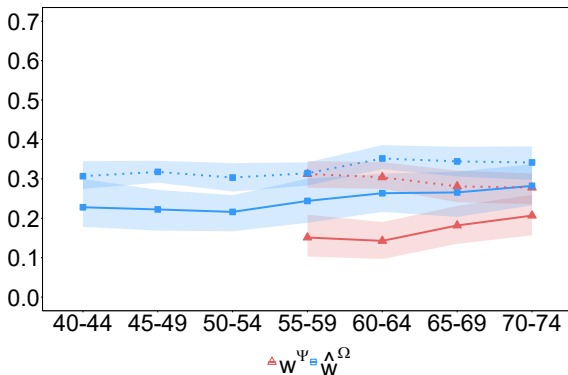


Figure 6: Transition probabilities for grandparents and grandchildren (solid lines) and parents and children (dotted lines) when (grand)children are aged 30-34.

4. Intra-generational (individual-level) mobility

Intra-generational analysis

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- Intra-generational mobility: within-cohort wealth rank trajectories of individuals over the lifecycle
- Lifecycle is split into working life (ages 30-54) and older age (ages 55-74); the remainder of this presentation focuses on working life

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Mobility during working life: bottom & top

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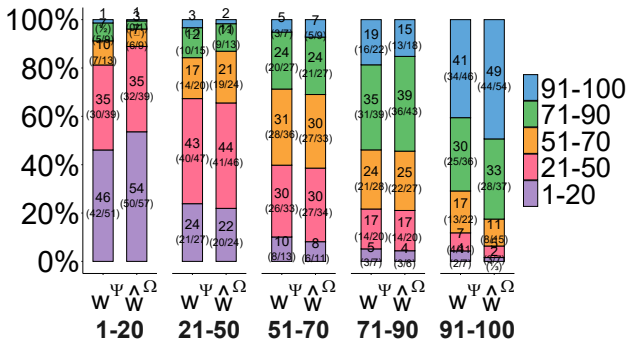


Figure 7: Ex-ante transition matrices during working life (ages 30-54) for the pooled dataset.

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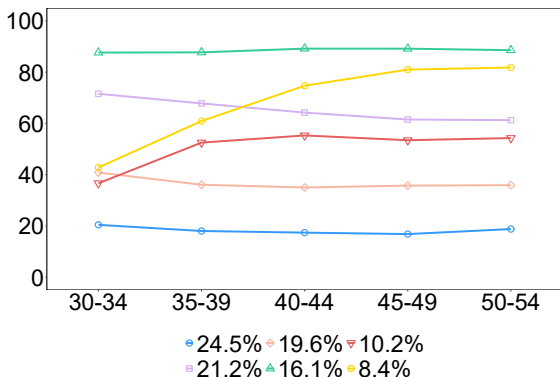


Figure 8: Hierarchical clustering wealth rank trajectories for working life for the pooled dataset based on actual wealth ranks κ^Ψ .

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Mobility during working life: timing

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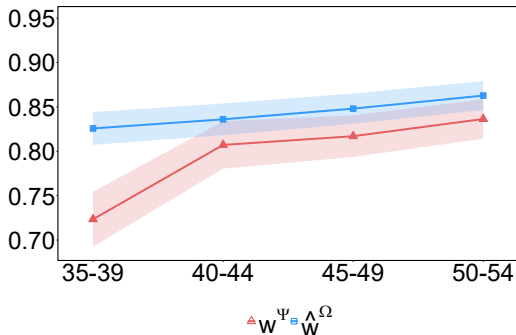


Figure 9: Rolling window analysis for rank-rank coefficient β .

Mobility during working life: time trend

6. Intra-generational wealth mobility **has declined at the top** over time.

| Cohort | Poor Groups (%) | | | Wealthy Groups (%) | | | β |
|---------|-----------------|------|-----|--------------------|------|-----|---------|
| | Steady | Past | New | Steady | Past | New | |
| Pooled | 9.2 | 3.8 | 3.3 | 4.4 | 2.8 | 2.4 | 0.56 |
| 1946–55 | 9.8 | 3.6 | 2.6 | 3.7 | 3.7 | 3.9 | 0.56 |
| 1956–65 | 9.4 | 3.2 | 3.7 | 4.3 | 2.6 | 1.7 | 0.56 |
| 1966–75 | 8.1 | 5.7 | 3.5 | 5.5 | 1.8 | 1.5 | 0.57 |

Table 2: Fraction of individuals belonging to each of the discretionary groups (in %) and rank-rank coefficients β across cohorts $\in \Upsilon^{WL}$ based on actual wealth ranks κ^Ψ .

5. Within-family interdependence

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- ② Exposure to the same sources of idiosyncratic risk (e.g. specific businesses, housing areas, sectors of employment, etc.)

Within-family interdependence

Downward mobility from the top: individuals starting working life in the top 10% but dropping to the bottom 70%

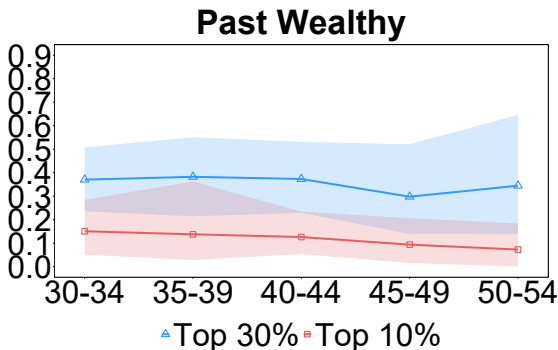


Figure 10: Interdependence between individuals' and their parents' wealth rank trajectories based on actual wealth ranks κ^Ψ .

Within-family interdependence

Upward mobility to the top: individuals starting working life in the bottom 70% but rising to the top 10%

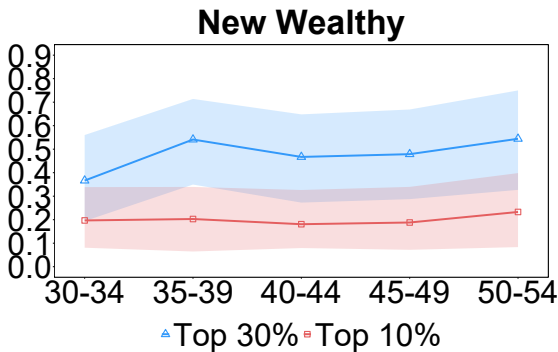


Figure 11: Interdependence between individuals' and their parents' wealth rank trajectories based on actual wealth ranks κ^Ψ .

6. Conclusion

Conclusion

- Extensive descriptive evidence on US wealth mobility using the Panel Study of Income Dynamics (PSID)
- Empirical mobility moments are particularly useful for the heterogeneous agent macro literature
- Overall: US wealth mobility has declined over time and is lower compared to most other countries with available data
- Positive interdependence between individuals' wealth rank trajectories and those of their parents