#### **Dynastic Home Equity**

Matteo Benetton<sup>1</sup> Marianna Kudlyak<sup>2</sup> John Mondragon<sup>2</sup>

<sup>1</sup>Berkeley Haas

<sup>2</sup>San Francisco Fed

SI Real Estate, July 2023

Disclaimer: The views expressed in this talk are solely those of the authors and should not be interpreted as reflecting the views of the Federal Reserve.

#### Intergenerational Wealth Persistence

- A large, active area of research documents persistent intergenerational linkages in income, wealth, and consumption
- Candidate explanations include genetic traits, environmental and institutional factors, inheritances, in-vivo transfers, etc

"Our broader view of resources and wellbeing shows that even in a generous welfare state such as Denmark, with substantial social insurance and redistribution through taxes and transfers, there is strong intergenerational dependence ... These findings call for a deeper examination of the sources of inequality and its persistence across generations."

- Eshaghnia, S, J J Heckman, R Landers and R Qureshi, NBER WP September, 2022

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#### This paper:

- Focus on intergenerational correlation in homeownership and housing wealth
- Propose a new mechanism that operates via the housing credit market

- Mechanism: Parents who own a house extract home equity to help their children purchase a home - Dynastic Home Equity
- Data: Nationally-representative panel of consumer credit records in the US, 1999-2021, linking parents and their children
- Identification: Rely on timing and multiple approaches to isolate the role of parents' home equity extraction in the intergenerational correlation in homeownership
  - Fixed effects specification (Zip code × age × year; individual)
  - Propensity score matching on broad set of observables
  - Event study around parental equity extraction
  - Linear projection difference-in-differences (LP-DiD)

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- Findings:
  - Strong correlation in homeownership across generations
    - Young adults at age 25 are 16% more likely to be a homeowner if a parent is also a homeowner
  - Dynastic home equity
    - Equity extraction events associated with a sharp increase in transition to homeownership: 80% increase relative to the mean
    - Common: about 10% of children's new home purchases are associated with parent equity extraction
    - Children with help buy younger, bigger houses, less leveraged loans, stay in their houses longer
    - ▶ Back-of-the-envelope scenario: accounts for about 10% of the white-black wealth gap
- Implications:
  - Unequal impact of housing macro-prudential regulations
  - Role of in-vivo transfers well before inheritance happens (property taxes as complement to inheritance taxes)

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#### Implications:

- Unequal impact of housing macro-prudential regulations
- Role of in-vivo transfers well before inheritance happens (property taxes as complement to inheritance taxes)

#### **Related Literature**

#### 1. Homeownership, mortgage market and equity extraction, leverage regulation

Hurst and Stafford (2004); Campbell (2006); Mian and Sufi (2011); Bhutta and Keys (2016); Sodini et al. (2017); Berger et al. (2018); De Fusco et al. (2018); Greenwald (2018); Beraja et al. (2019); Favilukis et al. (2019); Benetton (2020); Boar et al. (2020); Mabille (2020); Guren et al. (2021); Kermani and Wong (2021)

# $\rightarrow$ Equity extraction not only important for business cycle / monetary policy, but for persistence of housing wealth inequality across generations

- 2. Intergenerational persistence in wealth, role of family
  - Engelhardt and Mayer (1998); Charles and Hurst (2002); Guiso and Jappelli (2002); De Nardi (2004); Black and Devereux (2011); Englund et al. (2014); Black et al. (2015); Blanden and Machin (2017); Fagereng et al. (2018); Blickle and Brown (2019); Brandsaas (2021); Wold et al (2023)

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#### Outline

- Data and Preliminary Facts
- Dynastic Home Equity
  - Identification and Mechanism

Conclusions

#### DATA AND PRELIMINARY FACTS



#### Data

- Main: Federal Reserve Bank of New York Consumer Credit Panel/Equifax (CCP)
  - Individual-level quarterly panel dataset with detailed records of borrowing
  - 5% random sample of all U.S. consumers with a credit record, plus everyone in the household during a given quarter
  - Our sample: Q1-1999 to Q3-2021
- Additional data:
  - CRISM and McDash: Loan-to-value
  - Bureau of Labor Statistics: county-level unemployment rates, employment growth, and wage growth

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Corelogic: house price index

- Homeowner: number, payment amount, or total balance of mortgage, home equity installment or home equity revolving loans is > 0
  - If no mortgage AND no line of credit we classify as a non-homeowner
  - ACS: 63% of homeowners currently have a mortgage
- Equity extraction: borrower outstanding mortgage debt increases by more than 5% over a one year period, with a minimum increase of \$1,000
  - Same definition as in Bhutta and Keys (2016); McCully, Pence and Vine (2019)
- **Child:** individual for whom we have a record at age of 18 (typical age to enter CCP)
- Parent: individual who resides in the same address with an 18-year-old child and is 36 years or older
  - High fraction of young adults live with their parents at age 18 (2010 Census: 57% of men and 48% of women aged 18-24 lived with their parents)

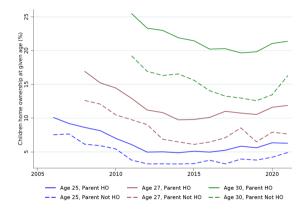
▶ The resulting dataset contains >1M children and assigned parents

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#### Preliminary Fact: Intergenerational Homeownership



- Controlling for zip code × time f.e. and credit score of both parents and children, young adults at age 25 are 16% more likely to be homeowner if parents homeowner
- Several explanation for this intergenerational <u>correlation</u>: Selection (ability, preferences,...) VS Treatment (education, direct transfers,...)

DYNASTIC HOME EQUITY: IDENTIFICATION

#### Empirical Strategy: Fixed Effect and Event Study

Linear probability model for young adult *i* living in location *l* becoming homeowner for the first time in period *t* at age *a* 

 $NewHO_{ilat}^{Child} = \alpha Extract_{ilat}^{Parent} + \theta X_{ilat} + \gamma_{lat} + \epsilon_{ilat}$ 

- Extract<sup>Parent</sup><sub>ilat,t-1</sub>: dummy = 1 if any of the parents of individual i extract equity from the housing in year t
- $\gamma_{lat}$ : location, age and time fixed effects (also interaction, individual fixed effects)
- ▶ X<sub>ilat</sub>: children and parent level controls (e.g., credit scores)
- Look at discountinuous increase in *children* inflow into homeownership if *parent* extracted home equity (k = 0 in the same year; k < 0 k years ago; k > 0 k years in the future)

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	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Parent Equity Extraction	0.457*** (0.059)	0.597*** (0.064)	0.613*** (0.063)	0.617*** (0.028)	0.626*** (0.018)	0.600*** (0.073)	0.606*** (0.080)
Year F.E.		Yes	Yes	Yes	Yes		Yes
Age F.E.							
Controls							
State F.E.							
County F.E.							
Zipcode F.E.							
Group F.E.							
Child F.E.							
Mean Y	1.01						
Observations	3978941						
Adjusted $R^2$	0.00						

▶ Parents' equity extraction is associated with a higher flow into homeownership by  $\approx 0.6pp (60\%)$  within year, age, zipcode, fico ▶ Fixed effects

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Survey evidence: wealth transfer ↑ transition to homeownership by 15-35%

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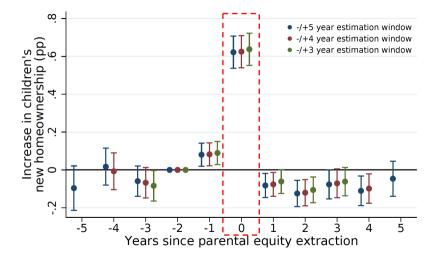
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Survey evidence: wealth transfer ↑ transition to homeownership by 15-35%

### Empirical Strategy: Event Study - Results



Large jump in children homeownership probability if parents extract same year

#### Empirical Strategy: LP-DiD

- Local projection model to estimate the equal-weighted dynamic treatment effects of equity extraction (Dube, Girardi, Jorda, Taylor 2023)
- Estimate series of regressions indexed by horizon h

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- Restrict sample to newly treated or not treated yet (clean control)
- Restrict to once-treated
- Estimate weights to recover equally-weighted treatment effects
- Advantages
  - Linear: no convergence issues and very fast
  - Transparent
  - Flexible: can easily handle controls, non-absorbing and/or continuous treatments

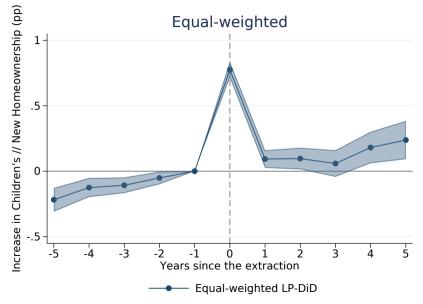
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### Empirical Strategy: LP-DiD - Results



#### Fleshing out the Mechanism

- Parental equity extraction is more important for homeownership when children are younger, if they have more siblings, and if local housing is expensive.
- Parental equity extraction appears more important after the global financial crisis when access to easy mortgage credit collapsed
- Children whose parents extract equity buy homes at younger ages and take out loans with much lower leverage
- The home match quality appears higher: they buy larger homes and are less likely to move.
- ► Overall: Dynastic home equity more important when financial constraints likely binding for children and parents can relax them accessing their home equity → home equity begets home equity

# Dynastic Home Equity: Implication for Persistence in Disparities in Homeownership Rates

#### Back-of-the-envelope Calculation

- Question: How much dynastic home equity affect persistence in disparities in homeownership rates?
- Setting: Black-white homeownership gap
  - Well established in the literature, active debate about mechanism and policy options (Charles and Hurst, 2002; Derenoncourt et al., 2022; Kermani and Wong, 2022; Gupta et al., 2022)
- Approach:
  - All children at age 18 are renters; once homeowners, no transition back to renting
  - Probability renter child i transitions to owner in period t:

$$P_{it}^{\text{Renting} \rightarrow \text{Owning}} = \underbrace{Baseline_{it}^{\text{Parent renters}}}_{\text{Calibrate to match}} + \underbrace{\theta_{it}^{\text{Parent owner}} + \gamma_{it}^{\text{Parent extract}}}_{\text{Empirical frequency}} + causal estimates the data at age 35$$

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## Dynastic Home Equity and Racial Disparities in Homeownership Rate





DHE explains  $\approx 11\%$  of the homeownership gap between black and white young adults

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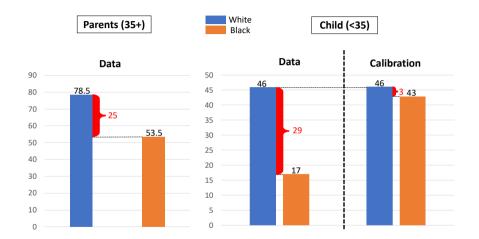
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## CONCLUSIONS

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#### Conclusions

- We document a strong correlation in homeownership across generations in the US
- We propose and identify a new causal channel to explain correlation: "Dynastic Home Equity"
  - Parents extract home equity to finance child home purchase (within housing wealth) → increase transition to homeownership; lower leverage of children; children buy "better" homes
  - $\blacktriangleright$  Channel can explain  $\approx\!\!10\%$  of the homeownership gap between black and white young adults

#### Policy Implications:

- Unequal impact of macro-prudential regulations (LTV, LTI, etc) for homeownership and wealth accumulation
- Role of in-vivo transfer well before inheritance happens (Property taxes as complement to inheritance taxes)