Comments on Yao: "Land and the Rise in the Dispersion of House Prices and Rents across U.S. Cities

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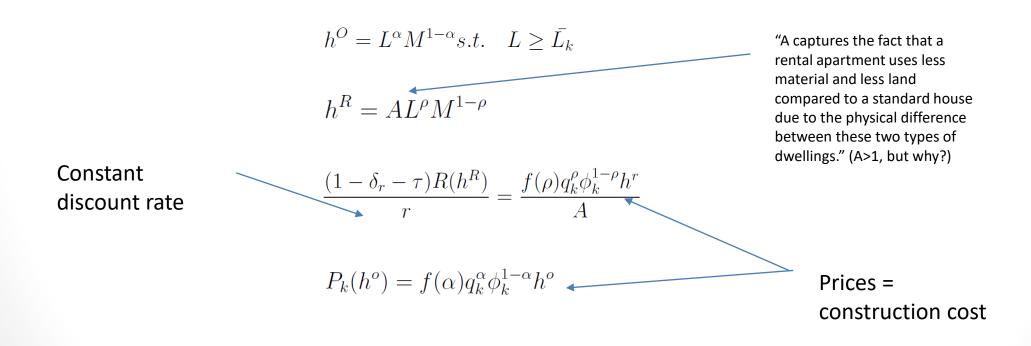
Home prices and rents

- The paper compares the behavior and dispersion of prices and rents.
- Takes some standard data (census, AHS) on price and rent
 - These are not comparable data
 - It's like comparing Apple dividends and Amazon stock price
- So there are two empirical pieces
 - Comparison of R and P of identical properties
 - Comparison of R of different properties

What should we be modeling?

- We would normally model R and P of the same asset.
- Theory is governed by the Gordon growth model
 - R/P =r-g (g= expected appreciation rate)
 - We do have empirical investigations of this
 - Bracke (REE, 2015); Baltagi and Li (RSUE, 2015) use rents and prices of same properties.
 - Bracke finds systematic variation in R/P attributable to variation in g.

- This paper ignores this piece. No variation in discount rate.
- Both R and P are tied to construction costs, hence differences are strictly due to land and capital differences.



- So this is not about rent and price, but about large/small or more/less dense, (and not even about multi/single family).
- We also know about the price dispersion caused by different land values:
 - Bostic, Longhofer and Redfearn (*REE*, 2007); Bourassa et al (*RSUE*, 2011)
 - See also Xu et al (*JREFE*, 2018)
- So we need a better sense of what this model brings to the table

Other unclear things

- Tenure choice
- Housing transitions
- Comparability of h in different modes
 - Housing consumption is

$$s = \begin{cases} h & \text{if Rent} \\ \\ \theta_k h \mathbb{1}_{j \ge j_o} \zeta & \text{if Own} \end{cases}$$

"⊙k is supposed to capture the quality difference between a standard owner-occupied house and a standard rental apartment and how residents on an island evaluate this quality difference."

• How does this square with the higher productivity of capital and land in *rental* production? (Footnote on separate identification of these two parameters)