

# Discussion of "The unintended consequences of credit: The impact of housing credit on personal bankruptcy" by S. Agarwal and C. Song.

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#### SUMMARY

 QUESTION: Does an increase in (housing) credit leads to more bankruptcies?

#### DATA:

- Private sector housing market in Singapore.
- Housing transactions + bankruptcy + bankruptcy related legal cases.
- Sample period: 05/1996-02/2010.

#### IDENTIFICATION:

- Exploit changes in regulation.
- "Difference-in-differences" approach.
- Increase in LTV limit + exposure to LTV limit (proxied by house price and house size).

#### SUMMARY

#### RESULTS

 Increase in LTV of 10 p.p. results in an increase likelihood of bankruptcy of those buying relatively expensive houses by 0.15-0.20 p.p. respect to those buying relatively cheap houses.

#### – Channels:

- Composition effect: buy more expensive houses.
- Debt burden effect: increase on the burden of monthly payments (+).

#### Robustness checks/extensions:

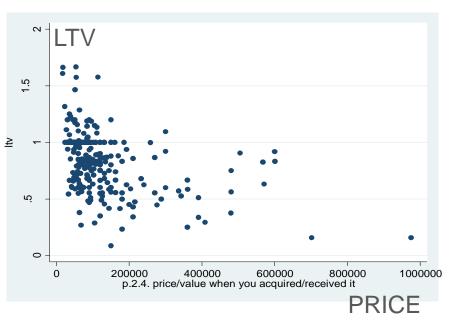
- Irresponsible buyers.
- Interest rate.
- Speculators vs owner-occupied house buyers.
- Selling behaviour.

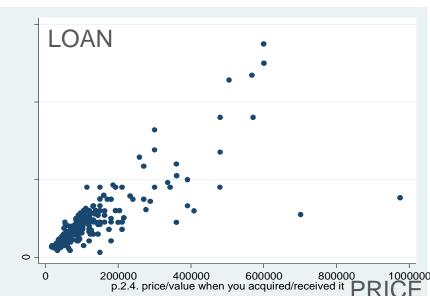
#### **COMMENTS and QUESTIONS**

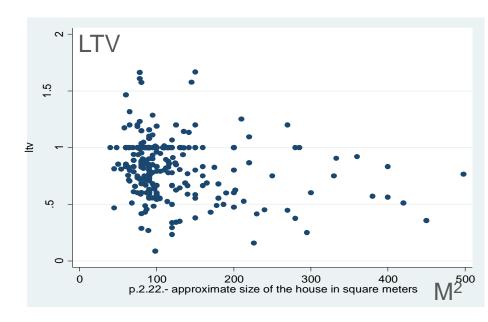
# **Identification strategy**

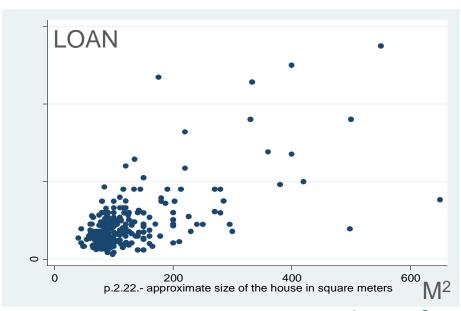
- Key assumption: more expensive, bigger houses more exposed to LTV limit. No evidence is given.
- 07/2005: Change in LTV + change in minimum cash requirements.
  CPF plays an important role (i.e. 100,000\$ cash + \$200,000 CPF vs \$100,000 cash + \$0 CPF). More info would be interesting.
- Pre and post-treatment periods: 3 years, rationale, robustness checks?
- Common trend assumption: why not use simple graph of trends for treatment and control groups?

# Some evidence from Spain









#### **COMMENTS and QUESTIONS**

## **Channels**

- Distinction between the two channels is not totally clear: the increase in debt burden might come from buying a more expensive house.
- Where do households who would have not bought with the original LTV but do now fit? (related to irresponsible buyers).

#### **COMMENTS and QUESTIONS**

### **Other comments**

- Interest rates, what about other changes in the economy.
  Unemployment rate? (reinforce results).
- Table 2 and accompanying text.
- Policy recommendations? Effects on welfare?