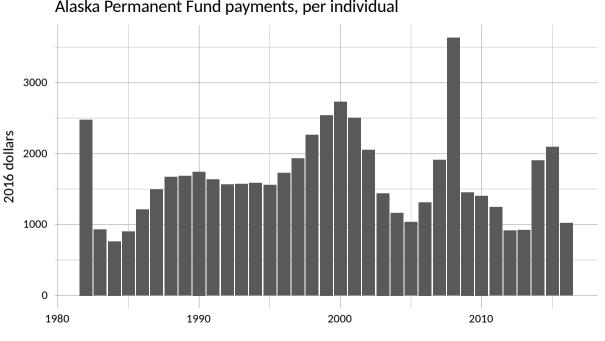
Cars in Alaska

Karl Dunkle Werner

March 9, 2017

- Context
 - Alaskan cars
- Questions
 - Income effects
- ► Setup
 - DD
 - Caveats!
- ► Results
 - Small(ish)



Questions

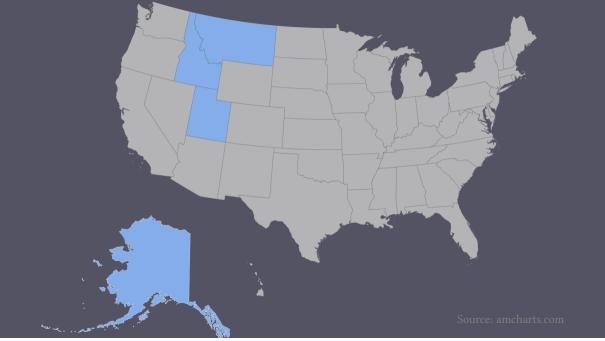
- Is the purchase of expensive durable goods sensitive to large, anticipated income shocks?
 - (Think permanent income hypothesis / consumption smoothing)
- Several margins:
 - Count sold
 - Value of vehicles sold
 - Efficiency of vehicles

Data

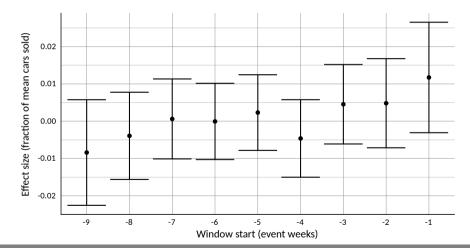
- ► Timing and amount of Permanent Fund payments
- ▶ Wholesale auto auctions, with buyer, seller and auction-site zip codes

Difference-in-differences setup

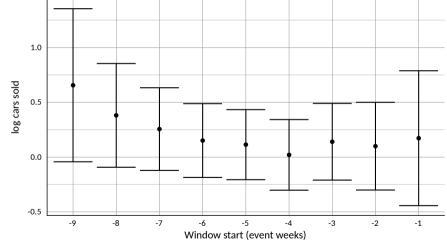
- ► Pick control states
- Collapse to state-by-week observations
- Consider different windows



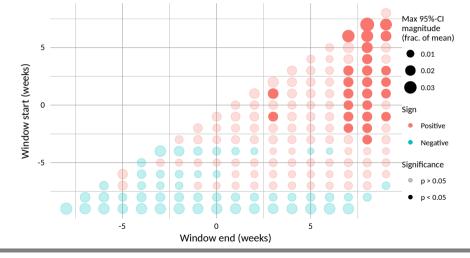
Sales counts anticipation widows of [i, -1] for $i \in \{-9, ... - 1\}$



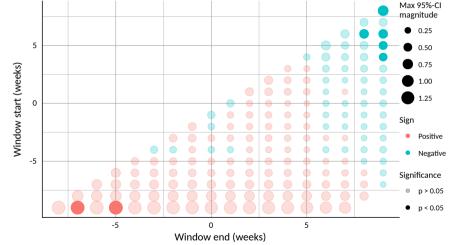
Log sales counts anticipation widows of [i, -1] for $i \in \{-9, ... - 1\}$



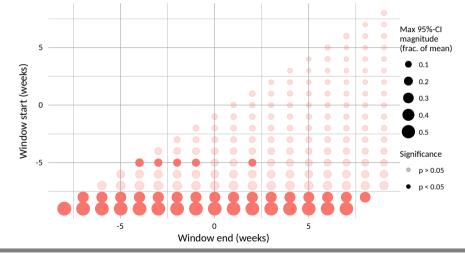
Sale counts max. detectable effects, widows of [i, j] for $i, j \in \{-8, ..., 9\}$



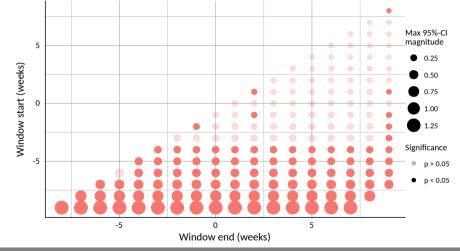
Log sale counts max. detectable effects, widows of [i, j] for $i, j \in \{-8, ..., 9\}$



Fuel cons. max. detectable effects, widows of [i, j] for $i, j \in \{-8, ... 9\}$



Log fuel cons. max. detectable effects, widows of [i, j] for $i, j \in \{-8, ... 9\}$



Questions

- ► Vehicle count: probably no effect
- ► Fuel consumption: can't rule out smallish effects
- ► (Vehicle value: can't rule out smallish effects)

Next steps

- ► Better control selection
- ► Better standard errors
- Suggestions?